AVS 72 Program Key

2D 2D Materials
AC Actinides and Rare Earths
AIML AI/ML/Autonomous Experimentation for Thin Films Processing
AM Advanced Microelectronic Materials and Devices Mini-Symposium
AP Atomic Scale Processing Mini-Symposium
AQS AVS Quantum Science Workshop (ALL-INVITED SESSION)
AS Applied Surface Science
BI Biomaterial Interfaces
BP Biomaterials Plenary (ALL-INVITED SESSION)
BT Advances in Battery Engineering, Interface Design, and Characterization Mini-Symposium
CA Chemical Analysis and Imaging at Interfaces
EL Spectroscopic Ellipsometry
EM Electronic Materials and Photonics
EUV Advances in EUV Lithography
FUS Materials and Innovations for Fusion Energy
GWR From Ionic Crystals to Ionic Conductivity: An Iconic Celebration of Gary W. Rubloff's 50+ Years in Science
LS Light Source Enabled Science
MC Multifunctional and Hybrid Microsystems
MI Magnetic Interfaces and Nanostructures
MS Manufacturing Science & Technology
NS Nanoscale Science and Technology
NSP Nanoscale Science and Technology Plenary Session (ALL-INVITED SESSION)
PK Advanced Packaging
PL Plenary Lecture
PS Plasma Science and Technology
QS Quantum Science and Technology
SE Advanced Surface Engineering
SS Surface Science
TF Thin Films
TS The Future of Temperature Sensing
UN Undergraduate Poster Session
VT Vacuum Technology

AVS 72 Program Overview

Room /Time	303	304	305	310-311	315	316	317
SuA		AQS-SuA					BP+BI-SuA
MoPL							
MoM		QS-MoM	SS-MoM		PS+AP-MoM	EUV-MoM	GWR-MoM
MoA		QS1-MoA QS2-MoA	SS-MoA		PS1-MoA PS2-MoA	EUV-MoA	TF1-MoA TF2-MoA
TuM		QS-TuM 2D+QS-TuM	SS-TuM		PS1-TuM PS2-TuM	AP+EL+EM+ PS+TF-TuM	TF-TuM
TuA		2D-TuA	SS-TuA		PS1-TuA PS2+EUV- TuA	AP1+EL+MS+ PS+TF-TuA AP2+EL+PS+ TF-TuA	TF1-TuA TF2-TuA
WeM	SE-WeM AIML-WeM	2D-WeM	SS-WeM		PS1-WeM PS2-WeM	AP+EL+PS+TF -WeM	TF1-WeM TF2-WeM
WeA	EM-WeA SE-WeA	2D-WeA	SS-WeA		PS1-WeA PS2-WeA	AP+2D+EL+ EM+PS+TF- WeA	TF-WeA
ThM	AS1+CA+EL- ThM AS2-ThM	2D-ThM	SS-ThM		PS1-ThM PS2-ThM	AP+EL+MS+ PS+TF-ThM	AIML1-ThM AIML2-ThM
ThA	2D-ThA	SE-ThA	SS-ThA	UN-ThA	PS-ThA	AP+EL+MS+ PS+TF-ThA	AIML1-ThA AIML2-ThA
ThP							
FrM	CA1-FrM CA2-FrM	PK+MS-FrM	SS-FrM		PS1-FrM PS2-FrM	AP1+EL+PS+ TF-FrM/ AP2+EL+PS+ TF-FrM	AIML1-FrM AIML2-FrM AIML3-FrM AIML4-FrM

AVS 72 Program Overview

Room /Time	318	319	320	321	Ballroom A	Ballroom BC
SuA			NSP-SuA			
MoPL						PL-MoPL PLENARY SESSION
MoM	MI-MoM	LS-MoM	NS-MoM	BI-MoM		
MoA	MI1-MoA MI2-MoA	LS-MoA	NS-MoA	MC-MoA BI-MoA		
TuM	MC-TuM EM-TuM	LS-TuM AS-TuM	NS-TuM	BI1-TuM BI2-TuM BI3-TuM		
TuA	EM-TuA	AS-TuA	NS-TuA TS-TuA	BI-TuA FUS-TuA		
WeM	EM-WeM	AS-WeM	TS-WeM	FUS-WeM		
WeA	AM1+EM+TF-WeA AM2+EM+TF-WeA	AS-WeA	TS-WeA	FUS-WeA VT+FUS-WeA		
ThM	AM+EM+TF-ThM	BT1+AS+CA+TF-ThM BT2+AS+CA+TF-ThM	TS-ThM AC-ThM	VT1-ThM VT2-ThM		
ThA	AM+EM+TF-ThA	BT-ThA	EL-ThA	VT-ThA		
ThP					POSTER SESSIONS	
FrM	AM1+EM+TF-FrM AM2+EM+TF-FrM	BT1+AS+CA+TF-FrM BT2+AS+SS+TF-FrM	AC-FrM	TF+AP+EUV-FrM VT-FrM		

Sunday Afternoon, November 8, 2026

	AVS Quantum Science Workshop (ALL-INVITED SESSION) **Room 304 - Session AQS-SuA** **AVS Quantum Science Workshop Session** **Moderators: Ekta Bhatia**, NY CREATES, **Dave Pappas**, Rigetti Computing **Charles R. Eddy, Jr.**, Office of Naval Research Global -London, UK, **Aranya Goswami**, Nokia Labs	**Biomaterials Plenary (ALL-INVITED SESSION)** **Room 317 - Session BP+BI-SuA** **Biomaterials Plenary Session** **Moderators:** **Christopher So**, Naval Research Laboratory, **Rong Yang**, Cornell University
3:00pm	**INVITED: AQS-SuA-1** Fabrication of Superconducting Qubits: Challenges and Opportunities in Scaling of Quantum Computing Circuits, ***Hossein Taghinejad,*** Rigetti Computing	**INVITED: BP+BI-SuA-1** Bio-Inspired Design of Multifunctional Materials, ***Kenan Fears,*** US Naval Research Laboratory
3:30pm	**INVITED: AQS-SuA-3** Quantum Transduction for Heterogeneous Integration of Quantum Information Systems, ***Matthew LaHaye,*** Air Force Research Laboratory, Information Directorate	**INVITED: BP+BI-SuA-3** Synthetic Brochosomes: From Biomimicry to Function, ***Tak-Sing Wong,*** The Pennsylvania State University
4:00pm	**INVITED: AQS-SuA-5** The Capital of Quantum, ***Corey Stambaugh,*** Capital of Quantum	**INVITED: BP+BI-SuA-5** Gas Bubble-Encapsulating Microcapsules (GEMs): Pressure-Triggered Drug Delivery and AI-Enabled Fabrication, ***Daeyeon Lee,*** University of Pennsylvania
4:30pm	**BREAK**	**BREAK**
4:45pm	**INVITED: AQS-SuA-8** Benchmarking Progress Toward 'Useful' Quantum Simulations, ***Andrew David Baczewski,*** Sandia National Laboratory	
5:15pm	**AQS-SuA-10** AQS Panel Discussion and Reception	
5:45pm		
6:15pm		
6:30pm		
6:45pm		

Sunday Afternoon, November 8, 2026

Nanoscale Science and Technology Plenary Session
(ALL-INVITED SESSION)
Room 320 - Session NSP-SuA
Nanoscale Science and Technology Plenary Session
Moderators: Deep Jariwala, University of Pennsylvania,
Marek Kolmer, Ames National Laboratory

3:00pm	**INVITED: NSP-SuA-1** AFM – after 40 Years Still an Evolving Playground*, **Sidney R. Cohen**[1],* Weizmann Institute of Science. Israel	
3:30pm	**NSP-SuA-3** NS Graduate Award Finalists Presentations: • Zekun Hu, University of Pennsylvania • Samuel Haeuser, Iowa State University	
4:00pm	**NSP-SuA-5** NS Early Career Award Finalists Presentations: • Dengyu Yang, NIST/Univ. of Maryland, College Park • Robbie Elbertse, Delft University of Technology • Shen Chen, Ames National Laboratory	
4:30pm	**BREAK**	
4:45pm	**NSP-SuA-8** Nanoscale Science and Technology Plenary Award Winner Announcement and Reception	

[1] **NSTD Nanotechnology Recognition Award**

Monday Early Morning, November 9, 2026

Plenary Lecture
Room Ballroom BC - Session PL-MoPL
Plenary Session
Moderator: Mark Losego, Georgia Institute of Technology

8:30am **INVITED: PL-MoPL-1** Plenary Lecture: Vacuum Science and Technology: Enabling the Next Era of Industrial Transformation*,*
Akihisa Sekiguchi*,* Tokyo Electron America, Inc.

9:30am **COFFEE BREAK**

Monday Morning, November 9, 2026

	Advances in EUV Lithography **Room 316 - Session EUV-MoM** **Advances in EUV Lithography II** **Moderators: Alain Diebold**, University at Albany-SUNY, **Lior Huli**, TEL, **Gregory Denbeaux**, University at Albany-SUNY, **Kandabara Tapily**, TEL	**Biomaterial Interfaces** **Room 321 - Session BI-MoM** **Biofilms, Biofouling, and Biomolecules at Interfaces** **Moderators:** **Sapun Parekh**, University of Texas at Austin, **Rong Yang**, Cornell University
10:00am	**INVITED: EUV-MoM-1** Pushing the Limits of High-Volume Manufacturing with EUV Litthography, ***Mike Lercel,*** ASML	**BI-MoM-1** Harnessing the Photorhabdus Luminescens Biofilm for Continuous Production and Downstream Processing, ***Gabela Nelson,*** *Christoper Green,* U.S. Naval Research Laboratory*; Nathan McDonald,* U.S. Army DEVCOM CBC*; Matthew Yates,* U.S. Naval Research Laboratory
10:15am		**BI-MoM-2** Flow Regulates the Fibrin–Enzyme Interface Through Multiscale Structural Remodeling, *Sajjad Norouzi,* University of Texas at Austin*;* ***Sapun Parekh,*** University of Texas Austin
10:30am	**INVITED: EUV-MoM-3** High NA EUV Challenges and Opportunities, ***Eric Joseph,*** *Christopher Penny,* IBM Research	**BI-MoM-3** Tailoring the Inert Properties of Zwitterionic Coatings, *Jana Karthäuser, Lisa Schardt, Katrin Ademmer,* Ruhr University Bochum, Germany*; Jasper Hansen, Andre Laschewsky,* Potsdam University, Germany*;* ***Axel Rosenhahn,*** Ruhr University Bochum, Germany
10:45am		**BI-MoM-4** Graphene Oxide Coatings Enhance Biofilm Formation and Robustness in 3D-Printed Bioreactors, ***Maryssa Beasley,*** *Christopher Green, Megan Pitz,* US Naval Research Laboratory*; K.A. Shiral Fernando, Iman Eizadynejad, Oscar Ruiz,* Air Force Research Laboratory*; Rebecca Mickol,* US Naval Research Laboratory
11:00am	**INVITED: EUV-MoM-5** Climate-Aware Semiconductor Manufacturing:the Pivotal Role of Lithography, ***Emily Gallagher,*** imec	**INVITED: BI-MoM-5** Zwitterionic Polymers for Antifouling Surfaces in Soft Devices, ***Abdon Pena-Francesch,*** University of Michigan
11:15am		
11:30am	**EUV-MoM-7** EUV Pattern Rectification by the Directed Self-Assembly (DSA) of Block Copolymers, ***Dustin Janes,*** *Jon-L Innocent-Dolor,* Tokyo Electron America, Inc.	**INVITED: BI-MoM-7** Molecular Shape and Peeling-Stretching Mechanics of Collagen Adsorbed on Silicate Surfaces, ***Bruno Zappone,*** Consiglio Nazionale delle Ricerche - Istituto di Nanotechnology (CNR-Nanotec), Italy
11:45am	**EUV-MoM-8** Real-Time Monitoring of Chemical Evolution in Vapor-Deposited Zn-Based Hybrid EUV Resists, ***Thi Thu Huong Chu,*** *Dan N. Le, Minjong Lee, Dushyant M. Narayan,* University of Texas at Dallas, USA*; Nikhil Tiwale,* Brookhaven National Laboratory*; Oleg Kostko,* Lawrence Berkeley National Laboratory*; Chang-Yong Nam,* Brookhaven National Laboratory*; Jiyoung Kim,* University of Texas at Dallas, USA	

Monday Morning, November 9, 2026

	From Ionic Crystals to Ionic Conductivity: An Iconic Celebration of Gary W. Rubloff's 50+ Years in Science **Room 317 - Session GWR-MoM** **From Ionic Crystals to Ionic Conductivity: A Special Celebration of Gary W. Rubloffs 50+ Years in Science** **Moderators: Parag Banerjee**, University of Central Florida, **Keith Gregorczyk**, University of Maryland, College Park, **Alexander Kozen**, University of Vermont	**Light Source Enabled Science** **Room 319 - Session LS-MoM** **Light Source Enabled ARPES** **Moderators:** **Lucía Pérez Ramírez**, CEA Saclay, France, **Nicholas Strange**, SLAC National Accelerator Laboratory
10:00am	**INVITED: GWR-MoM-1** Recent Advances in Electrochemical Memory, ***Alec Talin***, Sandia National Lab	**INVITED: LS-MoM-1** Depth-Resolved X-Ray Spectroscopy of Emergent Electronic and Magnetic States at Oxide Interfaces, ***Alexander Gray***, Temple University
10:15am	**INVITED: GWR-MoM-2** Advancing New Semiconductor Materials and Devices Thought Characterization and Metrology, ***Alain Diebold***, CNSE, University at Albany	
10:30am	**INVITED: GWR-MoM-3** Materials, Technologies, and Systems Integration: How Gary Rubloff Inspired Me to Be a Better Microsystem Researcher, ***Reza Ghodssi***, University of Maryland College Park	**LS-MoM-3** Layer-Specific Spin-Polarization in a Triple-Layer Ferromagnetic Oxide, ***Jonathan Denlinger***, Lawrence Berkeley National Laboratory; *Prosper Ngabonziza,* Louisiana State University; *Alexei Fedorov,* Lawrence Berkeley National Laboratory; *Gang Cao,* University of Colorado Boulder; *James W. Allen,* University of Michigan, Ann Arbor; *G. Gebreyesus,* University of Ghana, Accra, Ghana; *Richard M. Martin,* Stanford University
10:45am	**INVITED: GWR-MoM-4** Biofabrication in Microfluidics for Biological and Fuel Cell Challenges: Inspired by Gary's Innovation Path, ***Xiaolong Luo***, Catholic University of America	**LS-MoM-4** In-situ Strain Tuning of Electronic Order at a Light Source: Insights from μ-ARPES and μ-Diffraction, ***Yucheng Guo (Graduate Student)***, Rice University; *Zhaoyu Liu,* Clemson University; *Na Hyun Jo,* University of Michigan, Ann Arbor; *Ji Seop Oh,* Sookmyung Women's University, Republic of Korea; *Yichen Zhang*, Rice University; *Aaron Bostwick, Chris Jozwiak, Nobumichi Tamura,* Advanced Light Source, Lawrence Berkeley National Laboratory; *Makoto Hashimoto, Donghui Lu,* SLAC National Accelerator Laboratory; *Robert J. Birgeneau,* University of California, Berkeley; *Jiun-Haw Chu,* University of Washington; *Eli Rotenberg,* Advanced Light Source, Lawrence Berkeley National Laboratory; *Ming Yi,* Rice University
11:00am	**INVITED: GWR-MoM-5** Hidden Chemistry and Unexpected Pathways in Atomic Layer Deposition, ***Theodosia Gougousi***, UMBC	**LS-MoM-5** Large Exciton Binding Energy in a Bulk Van Der Waals Magnet from Quasi-1D Electronic Localization, ***Shane Smolenski (Graduate Student)***, *Ming Wen, Qiuyang Li, Eoghan Downey, Adam Alfrey,* University of Michigan, Ann Arbor; *Wenhao Liu, Aswin Kondusamy,* University of Texas at Dallas; *Aaron Bostwick, Chris Jozwiak, Eli Rotenberg,* Advanced Light Source, Lawrence Berkeley National Laboratory; *Liuyan Zhao, Hui Deng,* University of Michigan, Ann Arbor; *Bing Lv,* University of Texas at Dallas; *Dominika Zgid, Emanuel Gull, Na Hyun Jo,* University of Michigan, Ann Arbor
11:15am	**INVITED: GWR-MoM-6** From Stress Gradients to Reaction Fronts: Physics-Based Modeling for Next-Generation Ionic Devices, ***David Stewart***, *Yueming Song,* University of Maryland, College Park; *Binh Hoang, Chuan-Fu Lin,* Catholic University of America; *Paul Albertus, Gary Rubloff,* University of Maryland, College Park	**LS-MoM-6** Probing Domain-Specific Charge Density Wave Dynamics and Strain Tunability in Bulk 1T-VTe2, ***Pratik Saud (Graduate Student)***, Carnegie Mellon University, USA; *Sandy Adhitia Ekahana,* Carnegie Mellon University; *Aalok Tiwari,* Carnegie Mellon University, USA; *Mohan Bikram Neupane,* Purdue University, USA; *Sagnik Bajpeyi,* Carnegie Mellon University, USA; *Chris Jozwiak, Eli Rotenberg, Aaron Bostwick,* Advanced Light Source, Lawrence Berkeley National Laboratory; *Arnab Banerjee,* Purdue University, USA; *Simranjeet Singh, Jyoti Katoch,* Carnegie Mellon University, USA
11:30am	**INVITED: GWR-MoM-7** Operando Electrochemical Phase Engineering Platform for Nanocomposite Thin Films, ***Daniela R. Fontecha***, *Osma J. Gomez, Nam Kim, Sang Bok Lee, Gary W. Rubloff, Keith E. Gregorczyk,* University of Maryland College Park	**LS-MoM-7** Investigation of Momentum Resolved Electronic Structure of Cr1.17Te2, ***Sagnik Bajpeyi (Graduate Student)***, Carnegie Mellon University, USA; *Sandy Adhitia Ekahana,* Carnegie Mellon University; *Aalok Tiwari,* Carnegie Mellon University, USA; *Mohan Bikram Neupane,* Purdue University, USA; *Pratik Singh Saud,* Carnegie Mellon University, USA; *Chris Jozwiak, Eli Rotenberg, Aaron Bostwick,* Lawrence Berkeley National Laboratory, US; *Arnab Banerjee,* Purdue University, USA; *Simranjeet Singh, Jyoti Katoch,* Carnegie Mellon University, USA
11:45am	**GWR-MoM-8** Pyridine-Catalyzed Molecular Layer Deposition of Silicon Oxycarbide, ***Gregory Parsons***, Department of Chemical & Biomolecular Engineering; *Man Hou Vong, Seoyeon Kim, Michael Dickey,* North Carolina State University	
12:00pm	**GWR-MoM-9** From Micro-Batteries to Nano-Ionics: a Two-Decade Journey with Ionic Thin Films, ***Keith Gregorczyk***, University of Maryland College Park	

Monday Morning, November 9, 2026

	Magnetic Interfaces and Nanostructures **Room 318 - Session MI-MoM** **Advanced Magnetic Materials in Low Dimensional Structures I** **Moderators: Markus Donath**, Muenster University, Germany	**Nanoscale Science and Technology** **Room 320 - Session NS-MoM** **Frontiers in Nanoscale Electron, Ion, and Scanning Probes I** **Moderators: Marek Kolmer**, Ames National Laboratory, **Yongtao Liu**, ORNL
10:00am	**INVITED: MI1-MoM-1** Observation of Mirror-Odd and Mirror-Even Spin Texture in Ultra-Thin Epitaxially-Strained RuO2 Films*, Ming Yi*, Rice University; ***Yichen Zhang***, Caltech	**INVITED: NS-MoM-1** The Atomic Single-Electron Transistor*,* ***Dahlia Klein****,* University of Chicago
10:15am		
10:30am	**MI-MoM-3** Compositionally Tunable Synthesis of High-Entropy Transition Metal Dichalcogenides Exhibiting Above-Room-Temperature Magnetism*,* ***Xiahua Zhong****, Chen Zhang,* University of Missouri-Columbia*; Zheng Gai, Huan Zhao,* Oak Ridge National Laboratory, USA*; Yingchao Yang,* University of Missouri-Columbia	**NS-MoM-3** Local Spectroscopy Reveals Quantum Geometry of Magnetic Bloch States and Hyperorbits in Hofstadter Bands*,* ***Dengyu Yang***[1]*,* National Institute of Standards and Technology (NIST)/ University of Maryland, College Park*; Lisa Frammolino, Duarte de Sousa,* National Institute of Standards and Technology (NIST)*; Rishav Harsh, Keunhong Min,* National Institute of Standards and Technology (NIST)/ University of Maryland, College Park*; Young Jae Song, Sungmin Kim,* National Institute of Standards and Technology (NIST)*; Ian Mercer,* Penn State University*; Kenji Watanabe, Takashi Taniguchi,* NIMS (National Institute for Materials Science), Japan*; Jon-Paul Maria,* Penn State University*; Paul Haney, Joseph Stroscio,* National Institute of Standards and Technology (NIST)
10:45am	**MI-MoM-4** Anomalous Hall Effect in Antiferromagnetic Dirac Semimetal $EuCu_2Sb_2$*,* ***Souvik Sasmal****,* Argonne National Lab	**NS-MoM-4** Cryogenic STM Readout of High-Q MEMS Resonators for Superconducting Casimir-Force Measurements*,* ***Robbie Elbertse***[1]*, Minxing Xu, Ata Keşkekler,* Delft University of Technology, Netherlands*; Giuseppe Bimonte,* Università di Napoli Federico II, Italy*; Jinwon Lee, Sander Otte, Richard Norte,* Delft University of Technology, Netherlands
11:00am	**INVITED: MI-MoM-5** Revisiting Altermagnetism in RuO2 and Cr-doped RuO2 Epitaxial Films through THz Spectroscopy and Neutron Scattering*, David T. Plouff, Nawsher J. Parvez,* Department of Physics and Astronomy, University of Delaware*; Laura Scheuer,* Department of Physics and Astronomy, University of Delaware, Germany*; Shreya Shrestha,* Department of Physics and Astronomy, University of Delaware*; Weipeng Wu,* Department of Physics and Astronomy, University of Delaware, China*; subhash Bhatt,* University of Delaware*; Xinhao Wang,* University of Delaware, China*; Lars Gundlach, M. Benjamin Jungfleisch,* University of Delaware*; Xixiang Zhang,* King Abdulah University of Science and Technology, Saudi Arabia*; Adam A. Aczel,* Oak Ridge National Laboratory, USA*; Jonathan Gaudet,* National Institute for Science and Technology (NIST)*;* ***John Q. Xiao****,* University of Delaware	**NS-MoM-5** Andreev Reflection and Electronic Reconstruction in Proximate Contacts to Superconductors*,* ***Petro Maksymovych****,* Clemson University*; Sang Yong Song,* Daegu Gyeongbuk Institute of Science and Technology, Republic of Korea*; Wonhee Ko,* University of Tennessee Knoxville*; Chengyun Hua, Gabor Halasz, Jiaqiang Yan, Benjamin Lawrie,* Oak Ridge National Laboratory, USA*; Jose Lado,* Aalto University, Finland
11:15am		**NS-MoM-6** Probing Unconventional Superconductivity by Atomically Resolved Multi-Particle Tunneling Spectroscopy*,* ***Wonhee Ko****,* University of Tennessee, Knoxville
11:30am	**MI-MoM-7** Cobalt Doping on Topological Superconductor $FeTe_{0.55}Se_{0.45}$*,* ***John Drain (Graduate Student)***[2]*,* University of Wyoming*; Mykola Telychko,* Oak Ridge National Laboratory*; Zheng Gai,* Oak Ridge National Laboratory*; TeYu Chien,* University of Wyoming	**INVITED: NS-MoM-7** Optical Properties of Single Molecules Explored with sub-nm Precision*,* ***Anna Roslawska****,* Max Planck Institute for Solid State Research, Germany
11:45am	**MI-MoM-8** Magnetic and Magnetostrictive Properties of Multilayer $Fe_{50}Co_{50}$ – Ag with Varied Ag Thickness*,* ***Thomas Mion****,* US Naval Research Laboratory*; Margo Staruch,* US naval Research Laboratory*; Zoey Warecki,* us naval Research Laboratory*; Konrad Bussmann, Peter Finkel,* US Naval Research Laboratory	

[1] **NSTD Early Career Award Finalist**

[2] **Falicov Student Award Finalist**

Monday Morning, November 9, 2026

	Plasma Science and Technology **Room 315 - Session PS+AP-MoM** **Plasma Processes for Advanced Interconnects** **Moderators:** **John Arnold**, IBM, **Takeshi Ohmori**, Hitachi, Japan	**Quantum Science and Technology** **Room 304 - Session QS-MoM** **Qubit Modalities I — Hybrid Superconducting–Semiconducting Quantum Devices** **Moderators: Aranya Goswami**, Nokia Labs, **Dave Pappas**, Rigetti Computing
10:00am	**INVITED: PS+AP-MoM-1** Interconnect for 7A and Beyond, ***John Arnold***, *Scott Allen*, IBM Research Division, Albany, NY	**INVITED: QS-MoM-1** Quantum Devices based on Sn-InAs Nanowire Josephson Junctions, ***Sergey Frolov***, University of Pittsburgh
10:15am		
10:30am	**INVITED: PS+AP-MoM-3** Epitaxial conductors to replace Cu in advanced interconnect metallization, ***Jean-Philippe Soulie***, *François Chancerel, Steven Brems, Chen Wu, Johan Swerts, Seongho Park, Christoph Adelmann*, IMEC, Belgium	**QS-MoM-3** Transport Study of SQUID Devices on Ge Quantum Well for Protected Superconducting Qubit, ***Shukai Liu (Graduate Student)***, *Adhilsha Parachikunnumal, Joshua Thompson, Kasra Sardashti,* University of Maryland College Park
10:45am		**QS-MoM-4** Characterizing single and double quantum dots with quenched charging energy in semiconductor PbTe nanowires, ***Seth Byard (Graduate Student)***, *Maksim Gomanko,* University of Pittsburgh; *Tongxie Zhang, Shixiong Zhang,* Indiana University Bloomington; *Sergey Frolov,* University of Pittsburgh
11:00am	**PS+AP-MoM-5** Reactive High Power Impulse Magnetron Sputtering with Positive Cathode Reversal Using a Rotary Magnetron, ***Nicholas Connolly (Graduate Student)***[1], *Collin Jeckell,* University of Illinois Urbana-Champaign; *Rajib Paul, Brian Jurczyk,* Starfire Industries, LLC; *David Ruzic,* University of Illinois Urbana-Champaign	**QS-MoM-5** Sn–Inas Nanowire Josephson Parametric Amplifiers as Probes of Hybrid Junction Nonlinearity, ***Amritesh Sharma (Graduate Student)***, *Amrita Purkayastha,* University of Pittsburgh, USA; *Param Patel,* Yale University; *Subhayan Sinha, Shreyas Asodekar,* University of Pittsburgh, USA; *An-Hsi Chen,* Grenoble-INP/CNRS, France; *Connor Dempsey,* University of California Santa Barbara; *Kun Zuo,* University of Sydney, Australia; *Chris Palmstrom,* University of California at Santa Barbara; *Moira Hocevar,* Grenoble-INP/CNRS, France; *Michael Hatridge,* Yale University; *Sergey Frolov,* University of Pittsburgh, USA
11:15am	**PS+AP-MoM-6** Two-Step Etching for Suppressing Etch-Depth Variation in Tin Etch-Back, ***Yudai Mashiko***, *Makoto Satake, Taku Iwase, Naoyuki Kofuji, Yasushi Sonoda,* Hitachi, Ltd., Japan	**QS-MoM-6** Optimizing Ge/SiGe Quantum Well Interfaces for Low-Noise Spin Qubits via Surface Passivation, ***Iris Boateng***, *Rebika Makaju, Giovanni Franco-Rivera, Kasra Sardashti,* Quantum Collaborative Research Corps & Department of Physics, University of Maryland, College Park MD, USA
11:30am	**INVITED: PS+AP-MoM-7** Roughness Generation Mechanisms in Ru Etching Using O_2/Cl_2-Based Plasma for Advanced Interconnects, ***Miyako Matsui***, *Tomoyasu Shohjoh, Taiga Kasai,* Hitachi Ltd., Japan; *Kiyohiko Sato, Makoto Miura,* Hitachi High-Tech Corporation, Japan; *Kenichi Kuwahara,* Hitachi High-Tech Corporation, Jamaica	**INVITED: QS-MoM-7** A Rapidly Iterable, Materials-Agnostic Platform for Correlating Loss in Superconducting Qubits, ***Mihir Pendharkar***, Stanford University
11:45am		

[1] **PSTD Coburn & Winters Student Award Finalist**

Surface Science
Room 305 - Session SS-MoM
Precision On-Surface Synthesis
Moderators:
Nathan Guisinger, Argonne National Laboratory, USA,
Pavel Jelinek**, Institute of Physics of the Czech Academy of Sciences, Czechia**

10:00am	**INVITED: SS-MoM-1** Porous Graphene Nanoribbons and Nanomeshes, ***Alexander Sinitskii,*** University of Nebraska-Lincoln	
10:15am		
10:30am	**SS-MoM-3** On-surface Synthesis of Porphyrin-Based MONs: a Model System for -Artificial Spin Lattices, *Eidsa Brenda Costa Ferreira,* University of Campinas (UNICAMP), Brazil*; Rafael Reis Barreto,* university of campinas (UNICAMP), Brazil*; Otavio Rodrigues de Oliveira, Iago Aedon Silva Prior, Isabela Costa Tonon,* University of Campinas (UNICAMP), Brazil*; Vanessa Carrenõ-Diaz, Breno Santimaria Sertori,* university of Campinas (UNICAMP), Brazil*; Igor Stein Weiler, **Abner de Siervo**,* University of Campinas (UNICAMP), Brazil	
10:45am	**SS-MoM-4** Deciphering Atomic Layer Deposition in Materials Processing: A Surface Science Perspective, ***Joerg Libuda,*** Friedrich-Alexander-University Erlangen-Nürnberg (FAU), Germany	
11:00am	**SS-MoM-5** Iterative Organic Modification of Pt Nanoparticles for Site-Selective Surface Engineering, ***Yongju Yun**, Minji Yun,* Pohang University of Science and Technology (POSTECH), Republic of Korea	
11:15am	**SS-MoM-6** Probing the Role of Anodization Leading to Improved Sn Uptake for the Creation of High-Performance Nb_3Sn SRF Cavities, ***Jasper Brown (Graduate Student)**, Van Do,* University of Chicago*; Liana Shpani,* Cornell University*; Helena Lew-Kiedrowski,* University of Chicago*; Matthias Liepe,* Cornell University*; Steven Sibener,* University of Chicago	
11:30am	**SS-MoM-7** Methods and Mechanisms to Engineer Monodispersed Noble Metal Single Atoms, Dimers, Trimers, and Bi-atomic Metal–Oxygen Dimers on TiO_2(110)-(1×1) Surface for Catalysis, ***Xiao Tong,*** BNL	
11:45am	**SS-MoM-8** Ni Porphyrin as a Model Single Atom Catalyst for CO_2 Adsorption, *J. Sanchez,* The University of Texas at San Antonio*; J. Martinez, P. Sharma, H. Wang,* University of North Texas*; **Fang Xu**,* The University of Texas at San Antonio	

Room 304

1:30pm	**INVITED: QS1-MoA-1** Towards Scalable, Available, and Capable Superconducting Qubits, *Valla Fatemi,* ***Shilling Du,*** Cornell University	**Quantum Science and Technology** **Session QS1-MoA** **Scalable Superconducting Qubits, Materials, and Integration** **Moderators:** **Ekta Bhatia**, NY CREATES, **Aswin Anbalagan**, Brookhaven National Laboratory
1:45pm		
2:00pm	**QS1-MoA-3** Barrier Height Engineering at V3Si-Si Interfaces for Quantum Device Applications, ***Preetha Sarkar,*** Brookhaven National Laboratory*; Zhujun Huang, Ting Cao, Charles Marcus,* University of Washington*; Charles Black, Mingzhao Liu,* Brookhaven National Laboratory	
2:15pm	**INVITED: QS1-MoA-4** Transition Metal Silicides: A New Class of Material Candidates for Superconducting Quantum Circuit Applications, ***Mingzhao Liu,*** Brookhaven National Laboratory	
2:30pm		
2:45pm	**QS1-MoA-6** Niobium Air Bridge Fabrication and Characterization for Superconducting Quantum Devices, ***Colin Myers (Graduate Student)****, Haozhi Wang, Eli Bader,* University of Maryland, College Park*; Ben Palmer,* Laboratory for Physical Sciences*; Kasra Sardashti,* University of Maryland, College Park	
3:00pm	**INVITED: QS1-MoA-7** Scalable Quantum Computation with Integrated Superconducting Electronics, ***Igor Vernik****, Caleb Jordan, Aaron Somoroff, Luigi Di Palma, Alex Kirichenko, Kan-Ting Tsai, Meng-Ju Yu, Jason Walter, Adam Weis, Chris Checkley, Oleg Mukhanov, Daniel Yohannes, Shu-Jen Han,* SEEQC	
3:15pm		
3:30pm	**QS1-MoA-9** Thermal Laser Evaporation of Superconducting Nb Films, ***Yifei Yan (Graduate Student)****, David Catherall, Finley Donachie, Austin Minnich,* California Institute of Technology	
3:45pm	**BREAK**	
4:00pm	**INVITED: QS2-MoA-11** Control of Defects and Interfaces for High–Coherence Superconducting Qubits, ***Peter Sushko,*** Pacific Northwest National Laboratory	**Quantum Science and Technology** **Session QS2-MoA** **Surfaces, Interfaces, Defects, and Microwave Loss in Superconducting Devices** **Moderators:** **Suman Bhaumik**, TEL Technology Center, America, LLC, **Drew Rebar**, Pacific Northwest National Laboratory, **Preetha Sarkar**, Brookhaven National Laboratory
4:15pm		
4:30pm	**QS2-MoA-13** Microscopic Impact of Sapphire Preparation on Losses in Superconducting Tantalum Thin Films, ***Aswin Kumar Anbalagan****, Hyeongjun Koh,* Brookhaven National Laboratory*; Suhas Ganjam,* Yale University*; Ruoshui Li, Daniel Olds,* Brookhaven National Laboratory*; Vesna Stanic,* IBM T. J. Watson Research Center*; Jean-Jordan Sweet,* IBM TJ Watson Research Center*; ChenYu Zhao, Shuoyuan Huang,* Brookhaven National Laboratory*; Jinhyun Cho,* Stony Brook University/Brookhaven National Laboratory*; Ananya Chattaraj, Kim Kisslinger, Sooyeon Hwang, Steven L. Hulbert,* Brookhaven National Laboratory*; Luigi Frunzio, Robert J. Schoelkopf,* Yale University*; Mingzhao Liu, Judith Yang, Andrew L. Walter, Andi M. Barbour,* Brookhaven National Laboratory	
4:45pm	**QS2-MoA-14** A Comparative Study of Niobium Superconducting Resonators on Silicon and 4H-Silicon Carbide Substrates, *Marcelo Velasco Forest,* ***Joseph Falvo (Graduate Student),*** Quantum Collaborative Research Corps & Department of Physics, University of Maryland, College Park*; Kiana Reed,* Department of Physics and Astronomy, University of California, Irvine*; Ivan Lainez, Kasra Sardashti,* Quantum Collaborative Research Corps & Department of Physics, University of Maryland, College Park	
5:00pm	**QS2-MoA-15** A Comparative Study of the Properties of Sputter Deposited Platinum Silicide Thin Films of Varying Thicknesses for Scalable Superconducting Quantum Devices, ***Soorya Suresh Babu****, Ananya Chattaraj, Aswin Anbalagan,* Brookhaven National Laboratory*; Mingzhao Liu,* Brookhaven National Laboratory and State University of New York at Stony Brook*; Charles Black, Tharanga Nanayakkara, Andi Barbour,* Brookhaven National Laboratory	
5:15pm		
5:30pm		

Room 305

Surface Science
Session SS-MoA
Surface Electronic, Magnetic, and Optical Properties
Moderators:
Abner de Siervo, University of Campinas (UNICAMP), Brazil,
Alexander Sinitskii, University of Nebraska-Lincoln

1:30pm 1:45pm	**INVITED: SS-MoA-1** Graphene Nanoarchitectonics: Exploring Dimensionality Effects from 0 to 1.X, ***Aitor Mugarza***, Catalan Institute of Nanoscience and Nanotecnology - ICN2, Spain
2:00pm	**SS-MoA-3** Spatially Probing the Topologically Protected Surface State of Bi_2Se_3 to Local Impurities and Defects, ***Nathan Guisinger***, Argonne National Lab
2:15pm	**SS-MoA-4** Spectro-Microscopic Characterization of Surface Magnetization in Bulk Fe_3GeTe_2, *Trevor A. Tyson,* New Jersey Institute of Technology*; Abdullah Al-Mahboob,* ***Jerzy T. Sadowski****,* Brookhaven National Laboratory
2:30pm	**SS-MoA-5** Surface Electronic Structure of $Sr_3Ir_2O_7$ (001) Thin Films, ***Peace Adegbite (Graduate Student)***[12]*, M. Zaid Zaz, Yuanyuan Zhang, Arjun Subedi,* University of Nebraska-Lincoln, USA*; Alpha T N'Diaye,* Lawrence Berkeley National Laboratory*; Kenya Shimada,* Research Institute for Synchrotron Radiation Science, Hiroshima University, Japan*; Takashi Komesu, Xia Hong, Peter Dowben,* University of Nebraska-Lincoln, USA
2:45pm	**SS-MoA-6** Revealing the Band Structure of High Entropy Oxides with Angle Resolved Photoemission, ***Elena Salagre***, *Elliot Fuller,* Sandia National Laboratories
3:00pm	**SS-MoA-7** Unveiling the Surface Electronic and Morphological Properties of the Centrosymmetric Nano-Skyrmion Host $EuAl_4$, ***Jarred Grant (Graduate Student)****, David King, Nikiphoros Vlastos, Yuri Dahnovsky, Jinke Tang, TeYu Chien,* University of Wyoming
3:15pm	**SS-MoA-8** Engineering Electronic States in High-Entropy Materials: From Disorder-Induced Pseudo Gaps to Gap Tuning in Transition Metal Dichalcogenides, ***TeYu Chien****,* University of Wyoming
3:30pm	**SS-MoA-9** Revealing Cu-Mn Electronic Structure Interaction in Activated $CuMn/Al_2O_3$ Catalyst by Decoupling of Overlapping XPS Spectra, ***Yong Yang***, Shanghaitech University, China*; Rongjia Du,* ShanghaiTech University, China*; Evgeny I. Vovk,* ShanghaiTech University, China, Russian Federation
3:45pm	**BREAK**
4:00pm 4:15pm	**INVITED: SS-MoA-11** Understanding of STS Maps of Strongly Correlated Molecules on Surfaces: Can We Image Molecular Orbitals?, ***Pavel Jelinek***, Institute of Physics of the Czech Academy of Sciences, Czechia
4:30pm	**SS-MoA-13** Nanoscale Characterization of Metal-Supported Ultrathin Films Using Ultrahigh Vacuum Tip-Enhanced Raman Spectroscopy, ***Nan Jiang***, University of Illinois - Chicago
4:45pm	**SS-MoA-14** Precision Force-Volume HR-AFM Reveals Single-Molecule Reactive Sites and Reactivity Landscapes Quantitatively, ***Percy Zahl***, Brookhaven National Laboratory*; Xinzhe Wang,* Yale University*; Jara Trujillo-Mulero, Emiliano Ventura-Macias,* Universidad Autonoma de Madrid, Spain*; Yunus Dogan, Bugrahan Guner,* Yale University*; Rubén Pérez,*, Universidad Autonoma de Madrid, Spain*; Eric I. Altman, Udo D. Schwarz,* Yale University
5:00pm	**SS-MoA-15** Statistical Adsorption Mapping and 3D-AFM Characterization of Cobalt Phthalocyanine (CoPc) on Au(111), ***Bugrahan Guner****, Yunus E. Dogan,* Yale University*; Percy Zahl,* Brookhaven National Laboratory*; Xinzhe Wang,* Oak Ridge National Laboratory, USA*; Eric I. Altman, Udo D. Schwarz,* Yale University
5:15pm	**SS-MoA-16** Energy-Resolved Low-Energy Electron Microscopy as a Quantitative Metrology for EUV Photoresist Films, ***Peter Sun****, Chang-Yong Nam, Jerzy Sadowski,* Brookhaven National Laboratory
5:30pm	**SS-MoA-17** DFT Insights into Electronic Modulation of Cobalt Sites for N_2O Decomposition on Ni-Doped Spinel Oxides, *Hyung Chul Ham,* ***Chi Hun Lee***, Inha university, Republic of Korea*; Su Keun Kuk, Jong-Min Lee, Hyuk Jae Kwon,* Samsung Advanced Institute of Technology, Republic of Korea

[1] **AVS Dorothy M. and Earl S. Hoffman Awardee**
[2] **SSD Morton S. Traum Award Finalist**

Room 315

Plasma Science and Technology
Session PS1-MoA
Plasma Diagnostics
Moderators:
Sumit Agarwal, Colorado School of Mines, USA,
John Arnold, IBM

1:30pm	**INVITED: PS1-MoA-1** Plasma Diagnostics for Industry: Restrictions, Reluctance, and Reward, ***James Ellis***, *Ben Harris, Montu Bhuva, Jordyn Polito, Geoffrey Hassall,* Oxford Instruments Plasma Technology, UK
1:45pm	
2:00pm	**PS1-MoA-3** Use of the OES Signal as an Indicator of Si Etch-Rate Uniformity During Fluorocarbon Plasma Etching, ***Nobuyuki Kuboi***, *Takashi Yagisawa, Yasufumi Miyoshi, Akiko Kawamoto, Shoji Kobayashi, Yoshiya Hagimoto,* Sony Semiconductor Solutions Corporation, Japan*; Hiroshi Akatsuka,* Institute of Science Tokyo, Japan
2:15pm	**PS1-MoA-4** Non-Invasive Viewport Plasma Resonance Sensor for in-Situ Monitoring of Plasma Etching via Electron Density Measurement, ***InYong Park (Graduate Student)***, *GeonWoong Eom, SangHo Lee, Min Hur, WooSeok Kang, Dae-Woong Kim,* Korea Institute of Machinery and Materials, Republic of Korea
2:30pm	**PS1-MoA-5** Non-Invasive Detection of RF Plasma Arcing by View-Port-Type Radio Emission Spectrometry, ***Geon Woong Eom (Graduate Student)***, *SangHo Lee, In Yong Park, Woo Seok Kang, Min Hur, Dae-Woong Kim,* Korea Institute of Machinery and Materials, Republic of Korea
2:45pm	**PS1-MoA-6** High Sensitivity Detection of Subtle Electron Density Variations Using a Cutoff Probe, ***Jang Jinhyeok (Graduate Student)***, Applied Physics lab for Plasma Engineering (APPLE), Department of Physics, Chungnam National University, Republic of Korea*; Cho Chulhee,* Institute of Quantum Systems (IQS), Chungnam National University, Republic of Korea*; Seong Inho, Jeong Wonnyoung, Choi Byeongyeop, Seo Seonghyun, Lee Isak,* Applied Physics lab for Plasma Engineering (APPLE), Department of Physics, Chungnam National University, Republic of Korea*; You Shinjae,* Applied Physics lab for Plasma Engineering (APPLE), Department of Physics & Institute of Quantum Systems (IQS), Chungnam National University, Republic of Korea
3:00pm	**INVITED: PS1-MoA-7** Young Investigator Awardee Talk: Spatially Resolved Probes for the Measurement of Hydrogen, Oxygen, Nitrogen, Chlorine, and Fluorine Radicals, ***Dren Qerimi***, University of Illinois
3:15pm	
3:30pm	**PS1-MoA-9** Operando Plasma-XPS: Platform Development, Capabilities, and Metrology Challenges, ***Andrei Kolmakov***, NIST
3:45pm	**BREAK**

Plasma Science and Technology
Session PS2-MoA
Plasma Catalysis and Synthesis
Moderators:
François Reniers, Université Libre de Bruxelles, Belgium,
Mohan Sankaran, University of Illinois at Urbana-Champaign

4:00pm	**INVITED: PS2-MoA-11** Electrifying C1 Chemistry via Nonthermal Plasma Catalysis, ***Tomohiro Nozaki***, Institute of Science Tokyo, Japan
4:15pm	
4:30pm	**PS2-MoA-13** Methane Reforming in Nanosecond-to-Millisecond Pulsed Plasmas, *Norleakvisoth Lim,* ***Michael Gordon***, University of California Santa Barbara
4:45pm	**PS2-MoA-14** Asymmetric Plasma-Electrocatalyst Process for Tunable Nitrogen Fixation, ***Mohammad Ali Eslamisaray***, Department of Nuclear, Plasma, and Radiological Engineering, University of Illinois Urbana-Champaign, Champaign, IL, USA*; Hee-Eun Kim, Xiao Su,* Department of Chemical and Biomolecular Engineering, University of Illinois Urbana-Champaign, Urbana, IL, USA*; R. Mohan Sankaran,* Department of Nuclear, Plasma, and Radiological Engineering, University of Illinois Urbana-Champaign, Champaign, IL, USA
5:00pm	**PS2-MoA-15** Operando Spectroscopic Insights into Plasma-Driven Ammonia Synthesis via Isocyanate Intermediates, ***Casey O'Brien***, Texas Tech University
5:15pm	**PS2-MoA-16** Structural Changes of Plasma Modified Polymers for Applications in Catalytic Deconstruction, ***Aunic Goodin (Graduate Student)***, North Carolina State University*; Sujoy Bepari,* North Carolina A&T State University*; Tridip Das,* California Institute of Technology*; Duncan Trosan,* North Carolina State University*; Zahidul Islam,* North Carolina A&T State University*; William Goddard III,* California Institute of Technology*; Debasish Kuila,* North Carolina A&T State University*; Steven Shannon,* North Carolina State University
5:30pm	**PS2-MoA-17** Dynamics of Intermediates Formed from Ionizing Radiation of Aqueous Salt Solutions: A Transient Absorption Study, ***William Maza***, US Naval Research Laboratory*; Sara Gebre,* us naval Research Laboratory*; Adam Dunkelberger,* US NAval Research Laboratory

Room 316

Advances in EUV Lithography
Session EUV-MoA
Advances in EUV Lithography II
Moderators:
Alain Diebold, University at Albany-SUNY,
Lior Huli, TEL,
Dustin Janes, TEL,
Lovejeet Singh, JSR Micro,
Kandabara Tapily, TEL

1:30pm	**INVITED: EUV-MoA-1** EUV Resists: Chemistry, Mechanisms and Challenges, ***Robert Brainard,*** University at Albany
1:45pm	
2:00pm	**EUV-MoA-3** The Effect of Molecular Weight and Polydispersity Index on the Ultimate Roughness of EUV Photoresists, *Greg Denbeaux****, Dharshan Manoharan,*** University at Albany
2:15pm	**EUV-MoA-4** High Purity Component Cleaning for EUV: Current Challenges in the Process Chain, ***Michael Flaemmich,*** VACOM USA
2:30pm	**INVITED: EUV-MoA-5** Closing the Stochastics Resolution Gap, ***Chris Mack,*** FRACTILIA
2:45pm	
3:00pm	**EUV-MoA-7** The Role of Environmental Humidity During Processing on the Properties of Indium Nitrate Sol-Gel EUV Resists, ***Cody Allen (Graduate Student)****, Mohsen Moayedi, Raphael Nam, Kevin Brenner, Julia Hsu,* The University of Texas at Dallas
3:15pm	**EUV-MoA-8** Incorporating Bismuth into Hybrid Inorganic-Organic Films using Molecular Layer Deposition for Advanced Lithography Applications, ***Jane Keth (Graduate Student),*** *Duncan Reece, David Bergsman,* University of Washington
3:30pm	
3:45pm	**BREAK**
4:00pm	**INVITED: EUV-MoA-11** CD-RSoXS: Latent Image Metrology for Source–Mask–Resist Co-Optimization in High-NA EUV Lithography, ***Cheng Wang,*** Lawrence Berkeley National Laboratory
4:15pm	
4:30pm	**INVITED: EUV-MoA-13** Outlook for Future EUV Patterning Opportunities and Challenges, ***Eric Liu****, Steven Grzeskowiak, Alexandra Krawicz, Katie Lukter-Lee, HungYu Chang, Surya Padinjarekutt, Yen-Tien Lu, Christopher Cole, Julian Michaels, Amrit Kaphle,* Tokyo Electron America, Inc.*; Akiteru Ko,* Tokyo Electron America, Inc., Japan
4:45pm	
5:00pm	**EUV-MoA-15** Edge Placement Error Reduction using Directional Etching for Via Resistance Improvement, ***Jennifer Oakley****, Takumi Nishinobo, Yen-Tien Lu, Jeffrey Smith, Reo Kosaka, Rintaro Yamamoto, Sheldon Meyers, Lior Huli, Eric Liu, Hirokazu Aizawa, Angelique Raley, Luis Fernandez,* TEL US
5:15pm	**EUV-MoA-16** Measurement of H* Radicals and SnHx Vapor Species in a Simultaneous Deposition and Etch Experiment, ***Jameson Crouse (Graduate Student)****, Nathan Bartlett, Emily Greene,* University of Illinois at Urbana-Champaign*; Shiva Rajavalu, Sergio Ferraris, Niels Braaksma,* ASML*; Andrew Herschberg, David Ruzic,* University of Illinois at Urbana-Champaign
5:30pm	**EUV-MoA-17** Enabling an Accelerated Pathway Within the Us for Learning on Lowna Euv, Hina Euv and What'S Next, ***Erin Lavigne,*** NY CREATES

Room 317

1:30pm	**INVITED: TF1-MoA-1** TFD Messier Mid-Career Award Lecture: Growth Mechanisms and Properties of Thin-Film Ceramics for Energy Applications, ***Per Eklund***[1], Uppsala University, Sweden	**Thin Films** **Session TF1-MoA** **Thin Films for Energy** **Moderators:** **Adriana Creatore**, Eindhoven University of Technology, Netherlands, **Mark Losego**, Georgia Institute of Technology
2:15pm	**INVITED: TF1-MoA-4** Perovskite Photovoltaics on Flexible Foils: Reliability, Scaling, and Pathways to Market, ***Vivek Babu***, Verde Technologies	
2:45pm	**TF1-MoA-6** Enhancing Energy Storage Performance via Minimal Doping in $SrTiO_3$ Thin Films, ***Saeed Almishal***, *Joseph Petruska, Jon-Paul Maria,* Penn State University	
3:00pm	**TF1-MoA-7** Interfacial Engineering of the HTL-Perovskite Interface in Perovskite Solar Cells Using Atomic Layer Deposition, ***Alexandra Hurd (Graduate Student)***, *Md Aslam Uddin, Oluka Okia, Neil Dasgupta,* University of Michigan, Ann Arbor	
3:15pm		
3:30pm		
3:45pm	**TF2-MoA-10** Optimization and Stabilization of Stress in SiO_x for Piezoelectric Thin Films Stress Compensation, ***J Goodman (Graduate Student)***, *Burcu Dursun,* The Pennsylvania State University; *Gavin Frueh, Kenneth Buffo, Casey DeRoo,* The University of Iowa; *Paul Reid,* Harvard & Smithsonian Center for Astrophysics; *Hanyuan Liang, Thomas Jackson, Susan Trolier-McKinstry,* The Pennsylvania State University	**Thin Films** **Session TF2-MoA** **Fundamentals of TF I** **Moderator:** **Joe Becker**, Kurt J. Lesker Company **Tania Sandoval**, Universidad Técnica Federico Santa María
4:00pm	**INVITED: TF2-MoA-11** The Origins of Mxene Optical Properties, ***Zahra Fakhraai***, University of Pennsylvania	
4:15pm		
4:30pm	**TF2-MoA-13** Optical and Structural Properties of Ga_2O_3 Thin Films Deposited by Reactive and Non-Reactive Sputtering, ***Marcell Gajdics***, *Ildikó Cora, Dániel Zámbó, Zsolt Horváth Endre, Béla Pécz,* HUN-REN Centre for Energy Research, Hungary	
4:45pm		
5:00pm	**TF2-MoA-15** Plasma-Driven Microstructural Evolution in TaC Thin Films Deposited by DC, RF, and HiPIMS Sputtering, ***Tainara Coutinho de Carvalho***, *Jon-Paul Maria,* Penn State University	
5:15pm	**INVITED: TF2-MoA-16** Interfacial Engineering of Battery Materials using Atomic Layer Deposition, ***Neil Dasgupta***, University of Michigan, Ann Arbor	
5:30pm		

[1] **TFD Messier Mid-Career Award**

Room 318

1:30pm	**INVITED: MI-MoA-1** Bringing Materials-Specific Clarity to the Debate on Magnetism in RuO_2, ***Bharat Jalan,*** University of Minnesota, USA	**Magnetic Interfaces and Nanostructures** **Session MI1-MoA** **Advanced Magnetic Materials in Low Dimensional Structures II** **Moderators:** **Markus Donath**, Muenster University, Germany
2:00pm	**MI1-MoA-3** On the Sign of the Rashba Parameter in Image-Potential States, ***Markus Donath,*** *Fabian Schöttke,* University of Münster, Germany*; Kaishu Kawaguchi,* University of Tokyo, Japan*; Kenta Kuroda,* Hiroshima University, Japan*; Peter Krüger, Thorsten Deilmann,* University of Münster, Germany*; Ayumi Harasawa, Shuntaro Tani, Yohei Kobayashi, Takeshi Kondo,* University of Tokyo, Japan	
2:15pm	**MI1-MoA-4** High Magnetocrystalline Anisotropy-Driven Fuel Cell Electrocatalysis in PtPdFe Intermetallic Alloys, *Muhammad Irfansyah Maulana,* ***Jong-Sung Yu,*** DGIST, Republic of Korea	
2:30pm	**INVITED: MI2-MoA-5** THz Light Emission via Inverse Chiral Induced Spin Selectivity in Chiral Perovskite, ***Matthew Beard,*** The National Laboratory of the Rockies.	**Magnetic Interfaces and Nanostructures** **Session MI2-MoA** **Emergent Magnetism at Molecular Interfaces, Chirality Induced Spin Selectivity, Molecular Magnetoresistance** **Moderators:** **Oliver Monti**, University of Arizona, **Yonatan Dubi**, Ben Gurion University of the Negev, Israel
3:00pm	**MI2-MoA-7** Direction-Dependent Magnetic Conductive Atomic Force Microscopy as a Probe of the Chiral-Induced Spin Selectivity Mechanism, ***Joseph A. Albro,*** *Noah T. Garrett, Keerthana Govindaraj, Brian P. Blook, Nathaniel L. Rosi, David H. Waldeck,* University of Pittsburgh	
3:15pm	**MI2-MoA-8** Vibrationally-Mediated Dzyaloshinskii-Moriya Interaction as the Origin of Chirality-Induced Spin Selectivity in Donor-Acceptor Molecules, ***Leonardo Celada (Graduate Student),*** *Alessandro Chiesa, D. K. Andrea Phan Huu, Arianna Cantarella,* Università degli Studi di Parma, Italy*; Michael R. Wasielewski,* Northwestern University*; Paolo Santini, Stefano Carretta,* Università degli Studi di Parma, Italy	
3:30pm		
3:45pm	**MI2-MoA-10** Enantiomer-Dependent Chiral Transport Asymmetry in KTaO3 Based Nanowires on Direction Within the Material, and That the Response Does Not Arise Solely from the Electrode Interface, ***Sayanwita Biswas,*** *Joseph A. Albro, Pubudu Wijesinghe, Jiangfeng Yang, Patrick Irvin, Chang-Boem Eom, Jeremy Levy,* University of Pittsburgh	
4:00pm	**INVITED: MI2-MoA-11** Spin-dependent Charge Transport in Single-Molecule Junctions of a-helical Peptide Sequences, ***Ismael Diez Perez,*** King's College London, UK*; Vladimiro Mujica,* Arizona State University*; Wenzhu Kuang, Qiankun Wang,* King's College London, UK*; Mario Galante,* Arizona State University*; Albert Cortijos,* University of Barcelona, Spain	
4:30pm	**MI2-MoA-13** The Role of Electron Correlations in Chirality-Induced Spin Selectivity of Molecular Junctions, ***Aadi Konidena (Graduate Student),*** King's College London, UK	
4:45pm	**MI2-MoA-14** Strong Paramagnetic Correlation in Spin Crossover Molecular Complex in a Matrix of Polyaniline, ***Wai Kiat Chin (Graduate Student)***[1], University of Nebraska-Lincoln, Malaysia*; Mohammad Zaid Zaz,* University of Nebraska-Lincoln, India*; Sartaz Sarkib,* University of Nebraska-Lincoln, Bangladesh*; Faruk Soso,* Tuskegee University, Nigeria*; Ignatius Ebo-Quansah,* Tuskegee University, Ghana*; Peace Ikeoluwa Adegbite,* University of Nebraska-Lincoln, Nigeria*; Gauthami Viswan,* University of Nebraska-Lincoln, India*; Arjun Subedi,* University of Nebraska-Lincoln, USA, Nepal*; Alpha T. N'Diaye,* Lawrence Berkeley National Lab*; Vijay Rangari,* Tuskegee University*; Rebecca Lai, Peter Dowben,* University of Nebraska-Lincoln, USA	
5:00pm	**MI2-MoA-15** A Theoretical Model for Surface Chirality Sensors - Tribute to Vladimiro Mujica, *Vladimiro Mujica,* ***Oliver Monti,*** Arizona State University*; Jonatan Dubu,* Ben Gurion University, Israel	
5:15pm		

[1] **Falicov Student Award Finalist**

Monday Afternoon, November 9, 2026

	Light Source Enabled Science **Room 319 - Session LS-MoA** **Light Source Enabled Science** **Moderators:** **Alexander Gray**, Temple University, **Juanita Hidalgo**, NYU	**Nanoscale Science and Technology** **Room 320 - Session NS-MoA** **Frontiers in Nanoscale Electron, Ion, and Scanning Probes II** **Moderators: Alex Belianinov**, Sandia National Laboratory, **Nancy Burnham**, Worcester Polytechnic Institute
1:30pm	**INVITED: LS-MoA-1** Advancing the Sample Space to Elevate the Power of Resonant X-ray Scattering, ***Philip Ryan,*** Argonne National Laboratory, USA	**INVITED: NS-MoA-1** Medard Welch Award Talk: Mimicking Nature: Controlling Charge, Heat, and Spin at Interfaces, ***Paul S. Weiss***[1], University of California, Los Angeles
1:45pm		
2:00pm	**LS-MoA-3** Monolithic 2D Multilayer Laue Lens Optics for Hard X-ray Nanoimaging, ***Wei Xu***, *Zirui Gao, Weihe Xu, Nathalie Bouet, Juan Zhou, Hanfei Yan, Xiaojing Huang, Ming Lu, Mingyuan Ge, Yong Chu, Evgeny Nazaretski,* Brookhaven National Laboratory	**NS-MoA-3** Venturing Off-the-Rails: Localized Reconstruction of the Partial Density of States of Complex Oxide Heterostructures, *Hayden Barry,* ***Kory Burns,*** University of Virginia, USA
2:15pm	**LS-MoA-4** Development of Advanced High-Speed Fly-Scan Technology for sub-10 nm Hard X-Ray Imaging at NSLS-II, ***Weihe Xu,*** *Takenori Shimamura,* Brookhaven National Laboratory*; Dmitri Gavrilov,* brookhaven National Laboratory*; Huijuan Xu,* Brookhaven National Laboratory*; Wei Xu, Hanfei Yan,* brookhaven National Laboratory*; Nathalie Bouet, Juan Zhou, Randy Smith, Jun Ma, Xiaojing Huang, Yong S. Chu, Evgeny Nazaretski,* Brookhaven National Lab	**NS-MoA-4** Incommensurately Tiled Superlattices of Free-Standing $SrTiO_3$ Membranes, ***Jay Shah (Graduate Student),*** *Shivasheesh Varshney, Rishi Raj, Sooho Choo, Bharat Jalan, Andre Mkhoyan,* University of Minnesota Twin Cities
2:30pm	**LS-MoA-5** A Beamline for Probing Morphology and Dynamics of Thin Film Materials at the Advanced Photon Source, ***Joseph Strzalka,*** Argonne National Laboratory	**INVITED: NS-MoA-5** Propagating Phase Boundaries as Deterministic Drivers of Supported Nanoparticle Organization, ***Cheng-Yu Chen,*** University of Pennsylvania*; Duncan M. Burns, Peter Voorhees,* Northwestern University*; Eric Stach,* University of Pennsylvania
2:45pm	**LS-MoA-6** The Role of Artificial Intelligence and Spectral Databases in Minimizing Analysis Errors, Illustrated with EXAFS, XES, and Core Level Photoemission, ***Jeff Terry,*** Illinois Institute of Technology	
3:00pm	**INVITED: LS-MoA-7** Reliable Quantification of Oxygen Vacancies in Ferroelectric Hafnia Using Synchrotron-Based X-Ray Photoelectron Spectroscopy, ***Lucía Pérez Ramírez,*** *Tom Iung, Vineeta Yadav, Christophe Lubin,* CEA Saclay, France*; Uwe Schroeder, Florian Wunderwald,* Namlab, Germany*; Luis Azevedo Antunes, Alfred Kersch,* Munich University of Applied Sciences, Germany*; Tyson C. Back,* Air Force Research Laboratory, Materials and Manufacturing Directorate, USA*; Conan Weiland,* NIST*; Mickael Gros-Jean,* ST Microelectronics, France*; Nicholas Barrett,* CEA Saclay, France	**INVITED: NS-MoA-7** Disorder and Domains in Novel Ferroelectric Thin Films: Insights from Electron Microscopy, ***Elizabeth Dickey,*** *Sebastian Calderon, Ece Gunay,* Carnegie Mellon University, USA
3:30pm	**LS-MoA-9** A Proposal for Fully Coherent nanoARPES: Probing Electronic Phase at the 10 nm Scale, ***Aaron Bostwick,*** *Chris Jozwiak, Eli Rotenberg,* Advanced Light Source, Lawrence Berkeley National Laboratory*; Simon Moser,* Ruhr-University Bochum, Germany	**NS-MoA-9** Probing the Electron Screening Process in 2d Semiconductor WS_2, *Alex Boehm, Christopher Smyth,* Sandia National Laboratories*; Kory Burns,* University of Virginia, USA*; Andrew Kim,* Sandia National Laboratories, USA*; Jordan Hachtel,* Oak Ridge National Laboratory, USA*; Don Bethke, Tzu-Ming Lu, Catalin Spataru,* Sandia National Laboratories, USA*; Hayden Barry,* University of Virginia, USA*; Jose Fonseca, Jeremy Robinson,* Naval Research Laboratory, USA*;* ***Taisuke Ohta,*** Sandia National Laboratories, USA
3:45pm	**BREAK**	**BREAK**
4:00pm	**INVITED: LS-MoA-11** Probing Magnetic Interactions with Coherent Soft X-ray Scattering, ***Andi Barbour,*** Brookhaven National Laboratory	**INVITED: NS-MoA-11** Novelty-Aware Multimodal Machine Learning in Autonomous Microscopy for Nanoscale Discovery, ***Yongtao Liu,*** Oak Ridge National Laboratory
4:30pm	**LS-MoA-13** Alloy Oxidation for Corrosion Mitigation: Synchrotron Based X-Ray-Photoemission Electron Microscope (XPEEM) Studies from NiCr to High Entropy Alloys, *Keithen Orson,* University of Virginia*; Jurek Sadowski,* Brookhaven National Laboratory*; Yuran Niu, Alexei Zakharov,* Max IV Laboratory, Sweden*;* ***Petra Reinke,*** University of Virginia	**NS-MoA-13** Low-Resolution and Noisy Scanning Probe Microscopy Images Enhanced by Deep Learning, ***Nir Kampf,*** *Samuel Gelman, Irit Rosenhek-Goldian, Marek Patočka, Maricarmen Rios,* Weizmann Institute of Science, Israel*; Marcos Penedo, Georg fantner,* EPFL, Switzerland*; Amir Beker, Sidney Cohen, Ido Azuri,* Weizmann Institute of Science, Israel
4:45pm	**LS-MoA-14** Bragg-Enhanced XAS for Monitoring Real-Time Reactions at Interfaces, ***Karthika Madathil,*** Lawrence Berkeley National Laboratory (LBNL)*; Alisson Thill,* Universidade Federal do Rio Grande do Sul, Brazil*; Cheng Wang,* Lawrence Berkeley National Laboratory (LBNL)*; Baran Eren,* Weizmann Institute of Science, Israel*; Slavomir Nemsak,* Lawrence Berkeley National Laboratory (LBNL)	**NS-MoA-14** Structural and Functional Characterization of Single Mitochondria Using Atomic Force Microscopy, ***Irit Rosenhek-Goldian,*** *Ekaterina O. Zorikova, Sabita Chourasia, Sidney R. Cohen,* Weizmann Institute of Science, Israel*; Semen V. Nesterov,* NRC "Kurchatov Institute", Russian Federation*; Atan Gross,* Weizmann Institute of Science, Israel
5:00pm	**LS-MoA-15** Novel Lattice-Matched Substrates for Scalable III-N Power Electronics, ***Amitayush Jha Thakur,*** Argonne National Laboratory, India	**NS-MoA-15** Measuring Electron Charge Transfer and Reorganization Energies on a Single Metalloenzyme, ***Catherine Boisvert (Graduate Student),*** *Peter Grutter,* McGill University, Canada
5:15pm		**NS-MoA-16** Atomically Precise Additive and Subtractive Mechanosynthesis, ***Brandon Blue,*** *Zehra Ahmed, Damian Allis, Adam Bottomley, Doreen Cheng, Rosemary Cranston, Christian Imperiale, Cameron Mackie, Terry McCallum, Mathieu Morin, Adam Powell, Sam Rohe, Luis Sandoval,* CBN Nano Technologies, Inc., Canada
5:30pm		**NS-MoA-17** Real-Space Manifestation of Frustrated Hopping of Flat Band Electrons in Molecular Kagome Lattice, ***Wooin Yang,*** *Connor Vernachio2, Chris Howard,* University of Tennessee Knoxville*; Panchapakesan Ganesh,* Oak Ridge National Laboratory*; Wonhee Ko,* University of Tennessee Knoxville*; An-Ping Li,* Oak Ridge National Laboratory

[1] **Medard W. Welch Award Winner**

Room 321

Multifunctional and Hybrid Microsystems
Session MC-MoA
Multifunctional and Hybrid Microsystems: Optomechanics and Quantum Transduction
Moderators:
Yanan Wang, University of Nebraska-Lincoln

1:30pm 1:45pm	**INVITED: MC-MoA-1** All-Dielectric Cavity Electro-Optic Systems for Quantum Sensing and Transduction, *Mihir Khanna,* ***Thomas Purdy,*** University of Pittsburgh
2:00pm 2:15pm	**INVITED: MC-MoA-3** A Quantum Microwave-Optical Interface via Silicon Nanomechanics, ***Han Zhao,*** University of Central Florida
2:30pm	**MC-MoA-5** High-Performance 4H-SiC Optomechanical Resonators in the Sideband-Resolved Regime, ***Xirui Gou (Graduate Student)****, Qing Li,* Carnegie Mellon University
2:45pm	**MC-MoA-6** Parametrically Coupled Nanomechanical and Macroscopic Mechanical Resonators, ***Chris Ligato (Graduate Student)****, Thomas Purdy, Youssef Tawfik,* University of Pittsburgh
3:00pm 3:15pm	**INVITED: MC-MoA-7** Magnetic Nanostructures for Coupling and Control of Defect Spin Qubits, ***Jesse Berezovsky,*** Case Western Reserve University
3:30pm	**MC-MoA-9** Robust Topological Phonon Transport in Suspended Hexagonal Boron Nitride Waveguides, ***Sanchaya Pandit (Graduate Student)****,* University of Nebraska - Lincoln*; Jaesung Lee,* University of Central Florida*; Yanan (Laura) Wang,* University of Nebraska-Lincoln
3:45pm	**BREAK**

Biomaterial Interfaces
Session BI-MoA
The Future of Biointerface Science
Moderators:
Sapun Parekh, University of Texas at Austin,
Tobias Weidner, Aarhus University, Denmark

4:00pm	**BI-MoA-11** Interactions Between Marinobacter atlanticus and Heavy Metals, ***Sara Tuck,*** Naval Medical Research Command*; Maryssa Beasley, Rebecca Mickol,* U.S. Naval Research Laboratory*; Katherine Franz,* Duke University*; Kenan Fears,* U.S. Naval Research Laboratory
4:15pm	**BI-MoA-12** Addressing Agricultural Challenges Through Biomimetic Surfaces: Reframing Foliar Fungal Disease as a Biointerface Problem, ***River Pachulicz****, Bryan Coad,* Adelaide University, Australia
4:30pm	**BI-MoA-13** Scaling Biomaterials Manufacturing: Lessons from the Paper Industry, ***Sandro Zier (Graduate Student)****,* University of Maine
4:45pm	**BI-MoA-14** Extreme Copper Tolerance and Genomic Adaptation in Early-Stage Marine Biofilms, ***Kailey Richard,*** U.S. Naval Research Laboratory*; Sara Tuck,* Naval Medical Research Command*; Sophie Colston, Maryssa Beasley, William Hervey,* U.S. Naval Research Laboratory*; Kevin Le,* NOVA Research, Inc.*; Sean Brown,* U.S. Naval Research Laboratory*; Katherine Franz,* Duke University*; Kenan Fears,* U.S. Naval Research Laboratory
5:00pm	**BI-MoA-15** Scalable Water Quality Sensors using Low-cost Diffraction Pattern, ***Wyatt Fessler (Graduate Student)****, Caitlin Howell,* University of Maine
5:15pm	**BI-MoA-16** Effects of Surface Polarity on Antibacterial Action of Microscale Fe-Doped ZnO, ***John Brannon (Graduate Student)****, Joshua Humphrey,* Texas Christian University*; Rachel Hull,* Hollins University*; Sneha Athipatla,* Carroll High School*; Lexi Klement,* Texas Academy of Biomedical Sciences*; Mikhail Quiroz,* Harmony School of Innovation - Fort Worth*; Sourish Shreeyansh,* Argyle High School*; Parmeet Jodhka, Alexander Baumann,* Tarrant County College Northwest*; Shauna McGillivray, Yuri Strzhemechny,* Texas Christian University
5:30pm	**BI-MoA-17** Influence of Substrate Position and Duty Cycle on Plasma-Polymerized 1,8-Cineole Films, ***Reagan Larson (Undergraduate)****, Morgan Hawker,* California State University, Fresno

Room 304

8:00am		**Quantum Science and Technology** **Session QS-TuM** **Quantum Sensing, Simulation, and Emerging Quantum Applications** **Moderators:** **Suman Bhaumik**, TEL Technology Center, America, LLC, **Walid Redjem**, University at Albany State University of New York, **Simon Seymour**, UIUC
8:15am	**QS-TuM-2** Machine Learning from Steady-State Currents in Open Quantum Networks, ***Yonatan Dubi,*** Ben Gurion University of the Negev, Israel	
8:30am	**QS-TuM-3** Can NISQ-era Quantum Computing drive the design of new DFT Functionals?, ***Simon Seymour,*** *Andre Schleife,* University of Illinois, Urbana-Champaign	
8:45am	**QS-TuM-4** Linearly Uncoupled Silicon Photonic Cavities for Quantum State Generation, ***Prabha Prasad Nair (Graduate Student),*** University at Albany-SUNY	
9:00am	**QS-TuM-5** High Precision Fiber-Integrated Micro-Optics for Quantum Photonic Interfaces, ***Raman Kumar,*** *Sebastian Will,* Brookhaven National Laboratory	
9:15am	**QS-TuM-6** Selective Area Growth of Highly Lattice-Mismatched PbSe Nanostructures on GaAs by Molecular Beam Epitaxy, ***Ashlee Garcia,*** Stanford University*; Hosni Kaissi,* University of Minnesota*; Jarod Meyer, Kira Martin,* Stanford University*; Maksim Gomanko,* University of Pittsburgh*; Laura Stern, Pooja Reddy, SeongJin Park,* Stanford University*; Wilson Yanez-Parreno,* University of Minnesota*; Sergey Frolov,* University of Pittsburgh*; Vlad Pribiag,* University of Minnesota*; Kunal Mukherjee,* Stanford University	
9:30am	**INVITED: QS-TuM-7** Rejuvenating Photonic Quantum Sensing by Replacing Traditional Beamsplitters with Higher-Dimensional Gauge-Invariant Multiports, ***Alexander Sergienko,*** Boston University	
9:45am		
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**	
11:00am	**INVITED: 2D+QS-TuM-13** Watching 2D Materials Form: Real-Time Atomic-Scale Visualization of TMD Growth and Crystallization Pathways, ***Raymond Unocic,*** *Prajakta Prabhune, Aidan Cotton,* North Carolina State University*; Caitlin Obrero,* Stanford University*; Suman Jaiswal, Masoud Mahjouri-Samani,* Auburn University*; Kyungnam Kang, Kai Xiao,* Oak Ridge National Laboratory	**2D Materials** **Session 2D+QS-TuM** **Novel Quantum 2D Materials** **Moderators:** **Fei Yao**, University at Buffalo, **Roland Kawakami**, The Ohio State University
11:15am		
11:30am	**2D+QS-TuM-15** Airgap-Mediated Remote Epitaxial Control of Bandgap Opening in Bilayer Silicene on Semiconductor Substrates, ***Kumar Vishal,*** Wright University	
11:45am	**2D+QS-TuM-16** Synthesis and Characterization of Two-Dimensional Indium Gallium Nitride (2d $In_XGa_{1-X}N$) via Graphene Encapsulation, ***Krishnan Mekkanamkulam Ananthanarayanan (Graduate Student),*** *Soukyoon Kim, Md Farhan, Nutifafa Y. Doumon, Adri van Duin, Joshua Robinson,* The Pennsylvania State University	

Room 305

Surface Science
Session SS-TuM
Dynamics
Moderators:
Sara E. Mason, Brookhaven National Laboratory,
Zbynek Novotny, Pacific Northwest National Laboratory

8:00am 8:15am	**INVITED: SS-TuM-1** Hyperthermal Atomic-Oxygen Scattering Dynamics on Representative Satellite Surfaces, ***Timothy Minton,*** *Pedro Jorge,* University of Colorado Boulder
8:30am	**SS-TuM-3** Beyond the Binary Collision Approximation: Approximate Modeling of Low-Energy Impingement Events Using Classical Molecular Dynamics, ***Carson Mize****, Jörg Meyer,* Leiden University, Netherlands
8:45am	**SS-TuM-4** Influence of Subsurface Oxygen on the Energetics of CO Oxidation on Planar and Stepped Rhodium Surfaces, ***Dan Killelea,*** Loyola University Chicago*; Tim Schäfer,* Georg-August Universität, Göttingen, Germany
9:00am	**SS-TuM-5** Unexpectedly Weak Vibrational Energy Transfer in O_2/Au(111) Collisions, ***Igor Rahinov,*** The Open University of Israel*; Itai Kallos,* Ben Gurion University Be'er Sheva, Israel*; Kerim Benfreha,* University of Goettingen, Germany*; Joshua Baraban,* Ben Gurion Uni. Be'er Sheva, Israel*; Tim Schäfer,* University of Goettingen, Germany*; Alexander Kandratsenka, Alec Wodtke,* Max Planck Institute for Multidisciplinary Sciences, Germany
9:15am	**SS-TuM-6** High Temperature Annealing Dynamics and Surface Recovery of (3x1)-O Nb(100) Elucidated by Helium Atom Scattering, ***Michael Van Duinen (Graduate Student),*** University of Chicago*; Cristobal Mendez, Tomas Arias,* Cornell University*; Steven Sibener,* University of Chicago
9:30am	**SS-TuM-7** Isotopic, Structural, and Surface Dependencies in Non-Equilibrium Gaseous Condensation, ***Francisco Lizano (Graduate Student),*** *Elizabeth Jamka, Steven Sibener,* University of Chicago
9:45am	**SS-TuM-8** Effects of Subtle Temperature Fluctuations on Surface Mobility of Atomic Steps and Oxidation Dynamics in High-Temperature Alloys, ***Shyam Patel,*** Brookhaven National Laboratory*; Chaoran Li,* Binghamton University*; Abdullah Al-Mahboob, Jerzy Sadowski,* Brookhaven National Laboratory*; Guangwen Zhou,* Binghamton University
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**
11:00am 11:15am	**INVITED: SS-TuM-13** Theoretical Investigation of the Adsorption and Diffusion of Co and Ni on Ceria, *Nusrat Jahan Rifat, Md. Saeedur Rahman,* ***Ye Xu,*** Louisiana State University
11:30am	**SS-TuM-15** Stimulus-Driven Catalysis: Surface Reactions under Oscillatory Pressure Conditions, *Esteban Fornero,* Instituto de Desarrollo Tecnológico para la Industria Química, Argentina*; Gengnan Li,* Brookhaven National Laboratory*; Zubin Darbari, Eliseo Perez Gomez, Jay Shukla, Ignacio Vargas,* Brookhaven National Laboratory and State University of New York at Stony Brook*; Dario Stacchiola, Qin Wu,* ***J. Anibal Boscoboinik,*** Brookhaven National Laboratory
11:45am	**SS-TuM-16** Dynamic Metal–Support and Bimetallic Interactions in Ru Catalysts during Ammonia Decomposition, ***Soomin Kim (Graduate Student),*** Korea Advanced Institute of Science and Technology, Republic of Korea*; Yujin Jeon,* Korea Advanced Institute of Science and Technology (KAIST) & Institute for Basic Science (IBS), Republic of Korea*; Kwangjin An,* Ulsan National Institute of Science and Technology, Republic of Korea*; Mu-Hyun Baik,* Korea Advanced Institute of Science and Technology (KAIST) & Institute for Basic Science (IBS), Republic of Korea*; Jeong Young Park,* Korea Advanced Institute of Science and Technology, Republic of Korea
12:00pm	**SS-TuM-17** Vibrational Excitation in Plasma Catalysis: How Important Are Dynamical Effects?, ***Floris van den Bosch (Graduate Student),*** *Jörg Meyer,* Leiden University, Netherlands

Room 315

Plasma Science and Technology
Session PS1-TuM
High Aspect Ratio and Cryogenic Etching I
Moderators:
Kenji Ishikawa, Nagoya University, Japan,
Eric Miller, IBM

8:00am	**INVITED: PS1-TuM-1** Challenges in Etching High Aspect Ratio Patterns for Memory Devices*, Seokhyun Lim, Wonbong Jung, In-Joong Kim,* ***JungHwan Um****, Sung-Il Cho*, Samsung Electronics Co., Republic of Korea
8:15am	
8:30am	**PS1-TuM-3** High-Aspect-Ratio Carbon Hard-Mask Etch Using High-Density Plasma and a Novel Additive Gas Chemistry, ***Koki Mukaiyama****, Shuji Funada, Ryusuke Seino, Maju Tomura, Yoshihide Kihara,* Tokyo Electron Miyagi Limited, Japan
8:45am	**PS1-TuM-4** Passivation-less Etching in Cryogenic Regime*,* ***Hiroto Ohtake****, Radhe Agarwal, Alvaro Garcia, Tina Dhekial-Phukan,* Applied Materials Inc.*; Han Luo,* Applied Materials Inc., Canada*; Jeong Hwan Kim, Teris Liu,* Applied Materials Inc.
9:00am	**PS1-TuM-5** The Evolution of CVD-C Mask Profile During High-Aspect-Ratio Hole Etching*,* ***Mitsuhiro Omura****, Li Wu, Junichi Hashimoto, Chihiro Sakamoto, Chihiro Abe, Yuta Manabe, Hirotaka Tsuda, Toshiyuki Sasaki,* KIOXIA, Japan
9:15am	**PS1-TuM-6** ASSD Student Award Finalist Presentation: Plasma Chemistry and Cryogenic Control of Etching, Passivation, and Surface Modification in Hydrogenated Amorphous Carbon Thin Films*,* ***Jhonatan Gil Romero (Graduate Student)***[1]*, Kenneth Lathrum, Seonhee Jang,* University of Louisiana
9:30am	**PS1-TuM-7** Characterizing Spontaneous Etching of Si_3N_4 Sidewalls in Ar/Fluorinated Precursor Plasmas Using a Small-Gap Structure: Role of Precursor and Substrate Temperature*,* ***Md Intaqer Arafat (Graduate Student)****,* University of Maryland College Park*; Pierre Ricou, Behnaz Ghaffari, Jessica DeMott,* Arkema Inc*; Gottlieb S. Oehrlein,* University of Maryland College Park
9:45am	**PS1-TuM-8** Effect of Substrate Temperature on Neutral Species Transport in High-Aspect-Ratio Holes During Plasma Etching *,* ***Yusuke Imai (Graduate Student)****, Takayoshi Tsutsumi, Sekine Makoto, Kenichi Inoue, Kenji Ishikawa,* Nagoya University, Japan
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**

Plasma Science and Technology
Session PS2-TuM
High Aspect Ratio and Cryogenic Etching II
Moderators:
Hisataka Hayashi, Daikin Industries, Ltd., Japan,
Pingshan Luan, TEL Technology Center America

11:00am	**INVITED: PS2-TuM-13** Plasma-Material Interactions in Cryogenic Hydrogen-Fluoride Plasma Etching*,* ***Shih-Nan Hsiao****, Yusuke Imai, Makoto Sekine,* Nagoya University, Japan*; Ryutaro Suda, Yoshihide Kihara,* Tokyo Electron Miyagi Limited, Japan*; Masaru Hori,* Nagoya University, Japan
11:15am	
11:30am	**INVITED: PS2-TuM-15** Investigation of Surface Reactions of SiO_2 and SiN Films Under Cryogenic Etching Process via in-Line/Situ Analysis*,* ***Hiroyuki Fukumizu****,* Kioxia Corporation, Japan
11:45am	
12:00pm	**PS2-TuM-17** Dynamics of Charge Conduction in Water Layers Formed During Cryogenic Etching of HAR SiO_2 Features*,* ***Chenyao Huang (Graduate Student)****, Yeon Geun Yook, Yifan Gui,* University of Michigan*; Steven Shannon,* North Carolina State University*; Mark J. Kushner,* University of Michigan

[1] **ASSD Student Award Finalist**

Tuesday Morning, November 10, 2026

	Atomic Scale Processing Mini-Symposium **Room 316 - Session AP+EL+EM+PS+TF-TuM** **Area Selective Processing and Patterning** **Moderators:** **Greg Parsons**, North Carolina State University	**Thin Films** **Room 317 - Session TF-TuM** **Fundamentals of TF II** **Moderators:** **Devika Choudhury**, ASM, **Blake Nuwayhid**, Naval Research Laboratory
8:00am	**AP+EL+EM+PS+TF-TuM-1** ASCEND: A Novel Solution-Based Method To Control Deposit Composition and Placement, *Jevalyne Vienes*, ***Amy Walker***, University of Texas at Dallas	**TF-TuM-1** Argon and Nitrogen Background Atmospheres as Growth Modulators in RIR-MAPLE Deposited $MAPbI_3$ Thin Films, ***Joshua Ayeni (Graduate Student)***, *Adrienne Stiff-Roberts*, Duke University
8:15am	**AP+EL+EM+PS+TF-TuM-2** Using Acetylacetates to Control Chemical Reactivity and Physical Properties of Surfaces, ***Andrew Teplyakov***, University of Delaware	**TF-TuM-2** High Throughput Thin-Film Ion Kinetic Testing Enabled Through Atmospheric-Pressure Spatial ALD, ***Daniel MacAyeal (Graduate Student)***, *Ellen Owens, Kaydence Delgado, Alexander Kozen*, University of Vermont
8:30am	**INVITED: AP+EL+EM+PS+TF-TuM-3** Atomic Layer Etching for Advanced Logic Devices, ***Masanaga Fukasawa***, National Institute of Advanced Industrial Science and Technology (AIST), Japan	**TF-TuM-3** Accelerated Approaches to Atmospheric Pressure ALD Process Development Using Predefined Test Structures, ***Ellen Owens (Graduate Student)***, *Holly Wilson, Dan MacAyeal, Alex Zaccardi, Drew Ledger, Alexander Kozen*, University of Vermont
8:45am		**TF-TuM-4** Facile Optimization of Combinatorial Sputtering Processes with Arbitrary Numbers of Components for Targeted Compositions, ***Shelby Fields***, U.S. Naval Research Laboratory
9:00am	**AP+EL+EM+PS+TF-TuM-5** Band Practice: Tuning Gold's Workfunction Through NHC d-Band Interactions, ***Sean Barry***, Carleton University, Canada; *Wai Tung Shiu, Paul Ragogna*, Western University, Canada	**TF-TuM-5** Combining Pyroelectric Calorimetry and Multiscale Modeling to Untangle the Interplay of Precursor Delivery, Kinetics, and Byproducts in ALD ZrO2, ***Ashley Bielinski***[1], *Anik Biswas, Cong Liu, Alex Martinson*, Argonne National Laboratory
9:15am	**AP+EL+EM+PS+TF-TuM-6** Inhibition of SiO_2 by plasma treatments for bottom-up gap-fill applications, ***Aurelia Trevisan***, *Adrie Mackus, Erwin Kessels*, Eindhoven University of Technology, The Netherlands	**TF-TuM-6** Investigation of Lattice Interpenetration in Thin Film Growth of Microporous Coordination Polymers, *Hallie Matherne*, ***Greg Szulczewski***, The University of Alabama
9:30am	**AP+EL+EM+PS+TF-TuM-7** Precursor Isomerization-Enabled Etching Amplification: A Novel Route to Area Selective Deposition of SiOC Films, *Xiaocheng Huang*, ***Junjie Zhao***, Zhejiang University, China	**TF-TuM-7** Autodoping of Thin-Film Ionic Materials Using Atomic Layer Deposition (ALD), ***Steven Douglass (Graduate Student)***, *Daniela Fontecha, Gary Rubloff, Sang Bok Lee, Keith Gregorczyk*, University of Maryland, College Park
9:45am	**AP+EL+EM+PS+TF-TuM-8** A Novel Hybrid Approach to Area-Selective Deposition: Combining Two Strategies for Blocking Growth, *Jay Swarup, James Jensen, Gokul Rajagopal*, ***James Engstrom***, Cornell University	
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**	**BREAK - Complimentary Coffee in Exhibit Hall**
11:00am	**AP+EL+EM+PS+TF-TuM-13** Probing Reactivity at Heterointerfacial Sites Using Area Selective Atomic Layer Deposition, *Shani Monadeev*, ***Oz M. Gazit***, *Alexander Stook*, Technion Israel Institute of Technology, Israel	**TF-TuM-13** Phase Control in Flash-Evaporated Perovskite Thin Films, ***Jack Lawton***[2], *Milo V. Ferrara, Carlo A.R. Perini, Juan-Pablo Correa-Baena*, Georgia Institute of Technology
11:15am	**AP+EL+EM+PS+TF-TuM-14** Toward Autonomous Discovery of UV-Activated Small-Molecule Inhibitors for Area-Selective Atomic Layer Deposition, ***Lucas R. Kuehnel (Graduate Student)***, *Campbell A. Sweet, Anthony A. Khoury, Erick A. Gutierrez-Monje, Matthias J. Young*, University of Missouri-Columbia	**TF-TuM-14** Influence of Substrate Interactions on the Growth of MoO3 on Graphene/Ru(0001) and Highly-Oriented Pyrolytic Graphite, ***Buddhika Alupothe Gedara***, *Zdenek Dohnalek, Zbynek Novotny*, Pacific Northwest National Laboratory
11:30am	**AP+EL+EM+PS+TF-TuM-15** Beyond Two-Color Selectivity: Area Selective Deposition on Multi-Oxide Surfaces Using Small Molecules Inhibitors, ***Benjamin Sanhueza (Graduate Student)***, *Marc J. M. Merkx, Wilhelmus M. M. Kessels*, Eindhoven University of Technology, Netherlands; *Tania E. Sandoval*, Universidad Tecnica Federico Santa Maria, Chile; *Adriaan J.M. Mackus*, Eindhoven University of Technology, Netherlands	**TF-TuM-15** Atomic Growth Mode of Capping Layers for Surface Passivation of Nb, ***Van Do (Graduate Student)***, *Robert Burnley, Margaret Hall, Helena Lew-Kiedrowska, Sarah Willson, Steven Sibener*, University of Chicago
11:45am	**AP+EL+EM+PS+TF-TuM-16** Surface Hydroxyl Topology and Relative Orientation Effects on Surface-Inhibitor Reactivity: Revisiting Chemical Passivation in Alumina and Zirconia., *Lucas Lodeiro, Nicolás Rozas-Castro*, Universidad Tecnica Federico Santa Maria, Chile; *Dennis Hausmann, Rachel Nye de Castro*, Lam Research Corporation; *Adriaan Mackus*, Eindhoven University of Technology, Netherlands; ***Tania Sandoval***, Universidad Tecnica Federico Santa Maria, Chile	**TF-TuM-16** Distal electrofabrication and Microfluidic Integration of Chitosan Anion-Exchange Membranes for Low-Cost Direct Methanol Fuel Cells, ***Phuc Long Duong***, College of Engineering, Physics and Computing, Catholic University of America; *Xiaolong Luo*, Catholic University of America
12:00pm	**AP+EL+EM+PS+TF-TuM-17** Can pFA Invert Selectivity? The Chemistry of TiO_2 Nucleation on Chlorinated and Aminated Si(111) Surfaces During Thermal Atomic Layer Deposition, ***Tyler Parke (Graduate Student)***, *Andrew Teplyakov*, University of Delaware	

[1] **TFD Paul Holloway Young Investigator Award Winner**

[2] **TFD James Harper Award Finalist**

Room 318

8:00am	**MC-TuM-1** Ultralow-Dissipation Diamagnetically Levitated Graphite Rotors for Gyroscopic Inertial Sensing, ***Samira Yasmin (Graduate Student)***, *Pooja Roy,* University of Central Florida; *Yunong Wang, Philip Feng,* University of Florida; *Jaesung Lee,* University of Central Florida	**Multifunctional and Hybrid Microsystems** **Session MC-TuM** **Multifunctional and Hybrid Microsystems: MEMS and Bio Applications** **Moderators:** **Jesse Berezovsky**, Case Western Reserve University, **Jaesung Lee**, University of Central Florida
8:15am	**MC-TuM-2** Influence of Fluid Dynamics on a Halide-Suppressor Electrolyte for Copper Electrodeposition in High Aspect Ratio Through Silicon Vias, ***Jessica McDow (Graduate Student)***, *Matthew Jordan,* Sandia National Laboratories	
8:30am	**INVITED: MC-TuM-3** Redefining Dynamic Limits of MEMS Resonators via Nonlinear Dynamics, ***Hanna Cho***, The Ohio State University	
8:45am		
9:00am	**INVITED: MC-TuM-5** Multifunctional AlN-Based MEMS Resonator Platforms for Advanced RF Filtering and Sensing Applications, ***Mingyo Park***, Pennsylvania State University	
9:15am		
9:30am	**MC-TuM-7** Electrochemical Sensing of Hormonal Serotonin Levels in Crayfish, ***Sydney Overton (Graduate Student)***, *Kanishka Balamurugan, Jens Herberholz, Reza Ghodssi,* University of Maryland College Park	
9:45am	**MC-TuM-8** Development of Dissolvable Cantilevers for Localized Oral Drug Delivery, ***Yung Priscilla Lai***, *Joshua Levy, Reza Ghodssi,* University of Maryland	
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**	
11:00am	**EM-TuM-13** Low-Loss Single Mode AlN-Based CMOS-Compatible Platform for Quantum Photonic Integrated Circuits, ***Bogdan Dryzhakov***, *John Serafini, Bernadeta Srijanto, Steven Randolph, Kyle Kelley,* Oak Ridge National Laboratory	**Electronic Materials and Photonics** **Session EM-TuM** **Advanced Devices and Materials for Photonic, Sensing, and Quantum Applications** **Moderators:** **Erica Douglas**, Sandia National Laboratories, **Seth King**, University of Wisconsin - La Crosse, **Leland Nordin**, University of Central Florida, **Somil Rathi**, Arizona State University
11:15am	**EM-TuM-14** Elvamide Nylon as a Versatile and Tunable Alignment Layer in Liquid Crystal Devices, ***Joshua Levy***, National Academies of Sciences, Engineering, and Medicine; *Zoey Davidson, Jakub Kolacz, Christopher Green, Christopher Spillmann,* US Naval Research Laboratory	
11:30am	**EM-TuM-15** Rolled-up metamaterials (RUMMS) for infrared imaging, ***Gokul Nanda Gopakumar (Graduate Student)***, *Stephanie Law,* Pennsylvania State University	
11:45am	**EM-TuM-16** Optical Data Storage Materials, *Yuanbing Mao,* ***Venkata Daggupati***, Illinois Institute of Technology	
12:00pm		

Room 319

8:00am 8:15am	**INVITED: LS-TuM-1** Surface Sensitive and In-Situ Characterization of Perovskite Materials for Energy Conversion, ***Juanita Hidalgo***, New York University	**Light Source Enabled Science** **Session LS-TuM** **Light Source Enabled Energy Science** **Moderators:** **Andi Barbour**, Brookhaven National Laboratory, **Philip Ryan**, Argonne National Laboratory, USA
8:30am	**LS-TuM-3** Resonant Photoemission Spectroscopy for Resolving Active Oxidation States during Surface Chemical Reactions , ***Hao Chen***, Stanford Synchrotron Radiation Lightsource, SLAC National Accelerator Laboratory; *Miquel Salmeron,* Lawrence Berkeley Lab	
8:45am	**LS-TuM-4** Operando Soft X-Ray Spectroscopy of Electrochemical Interfaces: From Reaction Cell and Sample Design to Mechanistic Insight, *Santosh Kumar,* Diamond Light Source Ltd., UK; *James J. C. Counter,* University of Manchester, UK; *David C. Grinter, Matthijs A. van Spronsen, Pilar Ferrer,* Diamond Light Source, UK; *Christopher M. Zalitis, Tugce Eralp Erden,* Johnson Matthey Technology Centre, UK; *Roger A. Bennett,* University of Reading, UK; ***Georg Held***, Diamond Light Source, UK	
9:00am	**LS-TuM-5** Substrate-Mediated Doping Reshaping Interfacial Energetics in Organic Electronics, ***Xiane Li***, *Slavomir Nemsak,* Advanced Light Source, Lawrence Berkeley National Laboratory	
9:15am	**LS-TuM-6** Investigation on Topotactic Phase Transition of $LaCoO_3$ Thin Films with in Situ XRD and Ambient Pressure Hard X-Ray Photoelectron Spectroscopy, *Hyunsuk Shin, Youngmin Yun,* Gwangju Institute of Science and Technology, Republic of Korea; *Okkyun Seo,* National Institute for Materials Science, Japan; *Seongeun Kim,* Chosun University, Republic of Korea; *Minsik Seo, Dongwoo Kim,* Gwangju Institute of Science and Technology, Republic of Korea; *Hojoon Lim,* Myongji University, Republic of Korea; *Hojun Oh, Subin Jang, Kyungmin Kim, Sae Hyun Kang,* Gwangju Institute of Science and Technology, Republic of Korea; *Adrian Hunt, Iradwikanari Waluyo,* Brookhaven National Laboratory; *Do Young Noh,* Gwangju Institute of Science and Technology, Republic of Korea; *Hyon Chol Kang,* Chosun University, Republic of Korea; ***Bongjin Simon Mun***, Gwangju Institute of Science and Technology, Republic of Korea	
9:30am 9:45am	**INVITED: LS-TuM-7** Advances in Hydrogen Technology Enabled by Synchrotron X-ray Methods, ***Nicholas Strange***, SLAC National Accelerator Laboratory	
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**	
11:00am 11:15am	**INVITED: AS-TuM-13** Considerations when Developing Standards and Tools for Surface Chemical Analysis, ***Justin Gorham***, *Donald Windover,* National Institute of Standards and Technology (NIST)	**Applied Surface Science** **Session AS-TuM** **Applied Surface Science in Action I** **Moderators:** **Michael Eller**, University of Mississippi, **Samantha Rosenberg**, Kairos Power
11:30am	**AS-TuM-15** Might a Tiered Approach to Reviewing and Reporting Help Improve the Quality of XPS Results Appearing in Publications?, ***Don Baer***, Pacific Northwest National Laboratory	
11:45am	**AS-TuM-16** Strategies for Reducing Charging of Insulating Samples in Auger Electron Spectroscopy, ***Juergen Scherer***, Physical Electronics	
12:00pm	**AS-TuM-17** The Binary Residual Map and the Automated Determination of the Transfer Function Cutoff for the Fourier Filtering of X-ray Photoelectron Spectroscopy Data, ***Matthew Linford***, *Alvaro Lizarbe, Maksym Gerashchenko, Tyler Andersen, Jonathan Nelson,* Brigham Young University; *David Aspnes,* NC State	

Room 320

Nanoscale Science and Technology
Session NS-TuM
Multimodal Techniques in Surface and Interface Engineering at the Nanoscale
Moderators:
Aubrey Hanbicki, Laboratory for Physical Sciences,
Deep Jariwala, University of Pennsylvania

8:00am	**INVITED: NS-TuM-1** Foundation Models for 2D Materials Research, ***Haozhe "Harry" Wang***, Duke University
8:15am	
8:30am	**NS-TuM-3** Controlled Non-Volatile Modulation of Optical Dispersion in Monolayer Tungsten Disulfide via Ferroelectric Polarization Patterning, ***Yuhong Cao***, *Deep Jariwala,* University of Pennsylvania
8:45am	**NS-TuM-4** Enhanced Ferroelectricity in Ultrathin Compositionally Graded AlScN, ***Zekun Hu (Graduate Student)***[1], *Haiwei Zhang, Rajeev Kumar, Yuhong Cao, Xiaolei Tong, Pedram Yousefian, Hyunmin Cho, Bongjun Choi, Chao-Chuan Chen, Yunfei He, Kefei Bao, Chloe Leblanc, Eric Stach, Roy Olsson, Deep Jariwala,* University of Pennsylvania
9:00am	**NS-TuM-5** Functionalization-Driven Surface Assembly of Hexavanadate Molecular Memristors, ***Dejia Kong***, *Daniel Mejia Rodriguez, Amity Anderson, Wenjin Cao, Shuai Zhang,* Pacific Northwest National Laboratory*; Eric Z. Liu,* University of California at Santa Barbara*; Jonas Lorenz, Kirill Monakhov,* Leibniz Institute of Surface Engineering (IOM), Germany*; Venkateshkumar Prabhakaran, Oliva M. Primera-Pedrozo, Xue-Bin Wang, Niranjan Govind, Zbynek Novotny, Grant E. Johnson,* Pacific Northwest National Laboratory
9:15am	**NS-TuM-6** Scalable HfN Based AlScN Ferroelectric Diode Memories for High-Temperature Operation up to 500 °C, ***Chao-Chuan Chen (Graduate Student)***, University of Pennsylvania*; Tzu-Yu Peng,* National Taiwan University, Taiwan*; Yunfei He, Zekun Hu, Kefei Bao, Roy Olsson,* University of Pennsylvania*; Yu-Jung Lu,* Academia Sinica, Taiwan*; Deep Jariwala,* University of Pennsylvania
9:30am	**INVITED: NS-TuM-7** Imaging Atomic Dynamics in Real-Time: Current Capabilities and Future Horizons at SLAC MeV-UED, ***Alexander Reid***, SLAC National Accelerator Laboratory
9:45am	
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**
11:00am	**INVITED: NS-TuM-13** Cavity Electrodynamics of Van der Waals Heterostructures, ***Alexander Potts,*** *James McIver,* Columbia University
11:15am	
11:30am	**INVITED: NS-TuM-15** Dynamical Control of Tip-Induced Light-Matter Interactions at the Surface of Quantum Materials, ***Kyoung-Duck Park***, Pohang University of Science and Technology (POSTECH), Republic of Korea
11:45am	
12:00pm	**NS-TuM-17** Magneto – THz Correlated Electronic Behavior at the Nanoscale Through Scanning Near-Field Optical Microscopy , ***Samuel Haeuser (Graduate Student)***[1], Iowa State University*; Richard H.J. Kim,* Ames National Laboratory*; Randall K. Chan,* Iowa State University*; Joong-Mok Park, Thomas Koschny,* Ames National Laboratory*; Jigang Wang,* Iowa State University

[1] **NSTD Graduate Student Award Finalist**

Room 321

8:00am	**INVITED: BI1-TuM-1** Engineering the Human Sense of Touch as the Finger-Object Interface, ***Charles Dhong***, University of Delaware	**Biomaterial Interfaces** **Session BI1-TuM** **Biomaterials and Nanomaterials Fabrication I** **Moderators:** **Joe Baio**, Oregon State University, **Sapun Parekh**, University of Texas at Austin
8:15am		
8:30am	**BI1-TuM-3** Tuning Aggregation for Enhanced Control Over Protein-Based Underwater Adhesives, *Zachary D. Lamberty,* Naval Research Laboratory*; Chloe M. Skogg, Elizabeth A. Yates,* U.S. Naval Academy*;* ***Christopher R. So****,* Naval Research Laboratory	
8:45am	**BI1-TuM-4** RF Pulsed Plasma Modified Composite Scaffold for Enhanced Anti-Microbial Activity and Accelerated Wound Healing, ***Ajinkya Mahadev Trimukhe****,* University of Milan Bicocca, Italy*; Jose Savio Melo,* Bhabha Atomic Research Centre, India*; Deepa Chaturvedi, Ratnesh Jain, Prajakta Dandekar, Rajendrasing Deshmukh,* Institute of Chemical Technology, India	
9:00am	**BI1-TuM-5** Engineering Curvature-Controlled Polymer Dome Biointerfaces via Condensed Droplet Polymerization, ***Haobo Xu (Graduate Student)****, Rong Yang,* Cornell University	
9:15am	**BI2-TuM-6** Tuning Biopolymer Surface Wettability through Plasma Copolymerization, ***Morgan Hawker****, Alexzandria Kubik, Mackenzie Jackson, Kristina Closser,* California State University, Fresno	**Biomaterial Interfaces** **Session BI2-TuM** **Biomaterials and Nanomaterials Fabrication II** **Moderators:** **Christopher So**, Naval Research Laboratory
9:30am	**BI2-TuM-7** Capture of Rare Earth Metals Using Bio-Inspired Polymeric Materials, ***Gillian Kropp****, Kailey Richard, Kenan Fears, Okhil Nag,* U.S. Naval Research Laboratory	
9:45am		
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**	
11:00am	**BI2-TuM-13** Watching Enzymes Work at Interfaces: Orientation, Activation and Catalysis of Lipases and Nerve-Agent Hydrolases, ***Tobias Weidner****,* Aarhus University, Denmark	
11:15am	**BI3-TuM-14** ToF-SIMS Analysis of Tissue Microenvironments and Tumor Growth Progression, ***Lara Gamble****, Daniel Graham,* University of Washington	**Biomaterial Interfaces** **Session BI3-TuM** **Characterization of Biological and Biomaterials Surfaces** **Moderator:** **Roberto Eguiluz**, University of California Merced
11:30am	**BI3-TuM-15** Molecular Analysis of Small Extracellular Vesicles by Nanoprojectile Secondary Ion Mass Spectrometry, ***Pierre Hirchenhahn****, Stanislav Verkhoturov, Victoria Cura, Ravi Jada,* Texas A&M University*; Thanh Qui Nguyen, Daheui Choi,* Mayo Clinic*; Michael J. Eller,* University of Mississippi*; Alexander Revzin,* Mayo Clinic*; Emile A. Schweikert,* Texas A&M University	
11:45am	**BI3-TuM-16** Nanoscale Characterization of Bio-Nanomaterials Using Nano-Projectile Secondary Ion Mass Spectrometry, ***Christelle Guillermier****,* Bienne Technology*; Michael Eller,* University of Mississippi*; Stanislav Verkhoturov,* Texas A&M University*; Richard Rickman,* Bienne Technology*; Emile Schweikert,* Texas A&M University	
12:00pm	**BI3-TuM-17** Interactions of Divalent Metal Cations with Phosphate Headgroups in Monolayers at the Air/Water Interface, ***Sadia Afroz (Graduate Student)****, Paul S. Cremer,* Pennsylvania State University	

Tuesday Afternoon, November 10, 2026

	2D Materials **Room 304 - Session 2D-TuA** **Synthesis and Processing of 2D Materials** **Moderator:** **Tiancong Zhu**, Purdue University	**Surface Science** **Room 305 - Session SS-TuA** **Chemical Reactions** **Moderators: Fang Xu**, The University of Texas at San Antonio, **Ye Xu**, Louisiana State University
2:15pm 2:30pm	**INVITED: 2D-TuA-1** Advances in Synthesis, Transfer, and Magnetization Dynamics in van Der Waals Magnets, ***Roland Kawakami***, The Ohio State University	**INVITED: SS-TuA-1** Atomic-Scale Insights Into Reactivity and Excitations at Oxide Surfaces, ***Camilla Ferreira de Sá Codeço***, Federal University of Rio de Janeiro, Brazil
2:45pm	**2D-TuA-3** Approaching Synthesis of Large-Area Monolayer SnSe by Multi-Stage Growth and Bayesian-MBE (BaMBE), ***Eric Welp (Undergraduate)***, *Qihua Zhang, Stephanie Law,* Pennsylvania State University	**SS-TuA-3** In Situ AP-STM and AP-XPS Studies of CO_2 Activation on Oxide-Tuned PdIn(111) Surfaces, ***Jiwon Park (Graduate Student)***, Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea; *Jeongjin Kim,* Pohang Light Source II, Pohang University of Science and Technology (POSTECH), Republic of Korea; *Jeong Young Park,* Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea
3:00pm	**2D-TuA-4** Plasma Enhanced Atomic Layer Deposition of Layered 2D $ZnIn_2S_4$ Thin Films: Toward Large-Area Synthesis of a Ternary 2D Chalcogenide, ***Sudipta Mondal (Graduate Student)***, *Ryan Weiland, Hamidur Rahman, Ageeth Bol,* University of Michigan, Ann Arbor	**SS-TuA-4** Growth, structure and surface chemistry of Pd/In surface alloys and InOx thin films on Pd(111), ***Aditya Patidar (Graduate Student)***, *Om Amar Zavare, Shubham Ravan, Jason F. Weaver,* University of Florida
3:15pm	**2D-TuA-5** Two-Step Synthesis of MoSe2 from MoOx Thin Films by Low Temperature Thermal Atomic Layer Deposition, *Icelene Leong,* Boise State University; *Brian Everhart, Drake Austin,* AFRL; *Steven M. Hues,* Boise State University; *Nicholas R. Glavin,* AFRL; ***Elton Graugnard***, Boise State University	**SS-TuA-5** Activation and Selective Hydrogenation of CO_2 on Inverse MgO/Cu(111) Surface, ***Arephin Islam***, Brookhaven National Laboratory; *Jose Rodriguez,* Brookhaven National Laboratory and State University of New York at Stony Brook
3:30pm	**BREAK**	**BREAK**
4:00pm 4:15pm	**INVITED: 2D-TuA-8** Epitaxy Growth of P-Type 2d Semiconductors, ***Vincent Tung***, The University of Tokyo, Japan	**INVITED: SS-TuA-8** Interpreting Composition-Dependent Oxygen Vacancy Mechanisms in Layered Oxides Through Machine Learning Residuals and Electronic Structure Analysis, ***Sara E. Mason***, Brookhaven National Laboratory
4:30pm	**2D-TuA-10** Repeatability and Reproducibility in the Chemical Vapor Deposition of 2D Films: A Physics-Driven Exploration of the Reactor Black Box, ***Shahana Chatterjee***, Make Materials, Canada; *Thomas Abadie,* University of Birmingham, UK; *Meihui Wang,* IBS Center for Multidimensional Carbon Materials, Republic of Korea; *Omar Matar,* Imperial College London, UK; *Rodney Ruoff,* IBS Center for Multidimensional Carbon Materials, Republic of Korea	**SS-TuA-10** Adsorption of Carbon Monoxide on the r-cut Hematite Fe_2O_3(012)-(1×1) Surface, ***Moritz Eder***, *Johannes Filzmoser, Faith J Lewis, Adam Vavrecka, Maosheng Hao, Tun Sinner, Florian Kraushofer, Margareta Wagner, Christian Schäfer, Jiři Pavelec, Florian Libisch, Gareth S Parkinson,* TU Wien, Austria
4:45pm	**2D-TuA-11** Topotactic Formation of 2D Ternary Single Crystals, *Nitin Shinde, Shavit Ben David,* ***Ariel Ismach***, Tel Aviv University, Israel	**SS-TuA-11** A Closer Look at Oxygen Reconstructions of Rh Single Crystals , ***Elizabeth Serna-Sanchez (Graduate Student)***, *Alexis Gonzalez, Dan Killelea,* Loyola University Chicago
5:00pm	**2D-TuA-12** Spatial Doping of CVD-Grown WSe2 for Lateral Junction and Optoelectronic Applications, ***Utsab Kafley (Graduate Student)***, *Anupama Kaul,* University of North Texas	**SS-TuA-12** Desorption Characteristics of CO on Oxidized Rh Surfaces, ***Alexis Gonzalez (Graduate Student)***, *Dan Killelea, Elizabeth Serna-Sanchez,* Loyola University Chicago
5:15pm		**SS-TuA-13** CO on a Rh/Fe_3O_4 Single-Atom Catalyst: High-Resolution Infrared Spectroscopy and Near-Ambient-Pressure Scanning Tunnelling Microscopy, *Nail El Hocine Barama, Chunlei Wang, Panukorn Sombut, David Rath, Adam lagin,* Institute of Applied Physics, TU Wien, Austria; *Martin Ormos,* Department of Surface and Plasma Science, Charles University in Prague, Czechia; *Lena Puntscher, Faith Lewis,* Institute of Applied Physics, TU Wien, Austria; *Zdenek Jakub,* Central European Institute of Technology (CEITEC), Brno University of Technology, Czechia; *Florian Kraushofer, Moritz Eder,* Institute of Applied Physics, TU Wien, Austria; *Matthias Meier,* Faculty of Physics and Center for Computational Materials Science, University of Vienna, Austria; *Michael Schmid, Ulrike Diebold,* Institute of Applied Physics, TU Wien, Austria; *Cesare Franchini,* Dipartimento di Fisica e Astronomia, Università di Bologna, Italy; *Peter Matvija,* Department of Surface and Plasma Science, Charles University in Prague, Czechia; ***Jiři Pavelec***, *Gareth Parkinson,* Institute of Applied Physics, TU Wien, Austria
5:30pm		**SS-TuA-14** Reconciling Metal Coordination in g-C_3N_4-based Single Atom Catalysis: A Surface Science Study of Melem-Metal Interactions on Au(111), ***Faith Lewis (Graduate Student)***, TU Wien, Austria; *Nicolò Allasia,* Polytechnic University of Milan, Italy; *Ola Alayan,* IMEM-CNR and Università degli Studi di Genova, Italy; *Moritz Eder, Viktoria Waidbacher, Margareta Wagner,* TU Wien, Austria; *Letizia Savio,* IMEM-CNR and Università degli Studi di Genova, Italy; *Gianvito Vilé,* Polytechnic University of Milan, Italy; *Gareth S. Parkinson,* TU Wien, Austria

Room 315

2:15pm	**PS1-TuA-1** Synthesis of Organic and Inorganic Spatially Differentiated Coatings by Cold Atmospheric Plasma*, Marie Brabant, Celine Dergham,* ***Francois Reniers****,* Université libre de Bruxelles, Belgium	**Plasma Science and Technology** **Session PS1-TuA** **Atmospheric and Liquid Plasmas** **Moderators:** **Michael Gordon**, University of California at Santa Barbara, **Mohan Sankaran**, University of Illinois at Urbana-Champaign
2:30pm	**PS1-TuA-2** Atmospheric Plasma-Induced Surface Modification of Carbonaceous Thin Films*,* ***Thea Ferley (Graduate Student)****,* School of Physics, Clinical and Optometric Sciences, TU Dublin, Ireland*; Vladimir Milosavljevic,* School of Physics, Clinical and Optometric Sciences, TU Dublin, Ireland & Faculty of Physics, University of Belgrade, Serbia, Ireland	
2:45pm	**PS1-TuA-3** Influence of Pulsed Power Parameters on the Properties of Submerged Argon Plasmas*,* ***Michael Johnson****,* US Naval Research Laboratory*; Mackenzie Meyer,* National Research Council*; David Boris, Scott Walton,* US Naval Research Laboratory	
3:00pm	**PS1-TuA-4** Non-Invasive Short-Wave Infrared Imaging for High-Resolution Thermal Mapping of Graphene-Growth Atmospheric Plasmas*,* ***Logan Holler (Graduate Student)****, Mia Sawkik, Brenna Miller, Parker Hayes, Drhuval Patel, David Ruzic,* University of Illinois at Urbana-Champaign*; Michael Stowell,* Lyten*; Dren Qerimi,* University of Illinois at Urbana-Champaign	
3:15pm	**PS1-TuA-5** Spatially Resolved Spectroscopic Imaging of Plasma in Contact with a Liquid Interface*,* ***Robert Pierrard (Graduate Student)****,* University of Illinois at Urbana-Champaign*; Shurik Yatom,* Princeton Plasma Physics Laboratory*; Davide Curreli, Sean M. Peyres, Mohan Sankaran,* University of Illinois at Urbana-Champaign	
3:30pm	**BREAK**	
4:00pm		**Plasma Science and Technology** **Session PS2+EUV-TuA** **Plasma Processes for Feature Scaling** **Moderators:** **Erwin Kessels**, Eindhoven University of Technology, the Netherlands, **Pingshan Luan**, TEL Technology Center America
4:15pm		
4:30pm	**INVITED: PS2+EUV-TuA-10** Dry Resist Patterning Solutions for High-NA EUV Lithography*,* ***Ali Haider****,* Lam Research Corp.*; Zhengtao Chen, Shruti Jambaldinni,* Lam Research Belgium BV, Belgium*; Anuja De Silva,* Lam Research*; Rich Wise,* Lam Research Corp.	
4:45pm		
5:00pm	**PS2+EUV-TuA-12** Study of Electron-Induced Etching Mechanisms for Chromium and Ruthenium *,* ***Michael Hinshelwood (Graduate Student)****, Gottlieb S. Oehrlein,* University of Maryland, College Park*; Hubertus Marbach, Michael Remmel, Gerson Mette, Michael Budach, Daniel Rhinow, Klaus Edinger, Maik Szafarska,* Carl Zeiss SMT GmbH, Germany	
5:15pm	**PS2+EUV-TuA-13** 3 Layers Dielectric Patterning in Grid Module for OSC 3DDRAM Application*,* ***Yuchao Jiang****, Jeongsoo Kim, Alejandro Fernandez Rodriguez, Hemant Kumar Raut, Nouredine Rassoul, Eren Canga, Robert Carpenter, Attilio Belmonte, Katia Devriendt,* IMEC, Belgium	
5:30pm	**PS2+EUV-TuA-14** Role of Interfacial Force Balance in Gap Filling of TEOS-based Flowable CVD: Insights from Molecular Dynamics*,* ***Hu Li****,* Tokyo Electron America Inc.*,; Takeo Nakano, Nobuo Matsuki, Masaaki Matsukuma,* Tokyo Electron Ltd., Japan*; Raymond Joe, Anthony Dip,* Tokyo Electron America Inc.,	

Room 316

2:15pm 2:30pm	**INVITED: AP1+EL+MS+PS+TF-TuA-1** Design and performance of AI agents interfacing with atomic layer deposition tools, ***Angel Yanguas-Gil,*** Argonne National Laboratory	**Atomic Scale Processing Mini-Symposium** **Session AP1+EL+MS+PS+TF-TuA** **Advanced Atomic Scale Processing through Modeling and Simulation** **Moderators:** **Eric Joseph**, IBM T.J. Watson Research Center
2:45pm	**AP1+EL+MS+PS+TF-TuA-3** A Multiscale Framework for ALD/ALE Process and Precursor Development Using Neural-Network-Potential Atomistic Simulations and COSMO-SAC Thermodynamic Modeling, ***Yukihiro Shimogaki,*** The University of Tokyo, Japan	
3:00pm	**AP1+EL+MS+PS+TF-TuA-4** Re-designing ALD Experiments for AI-ready Data: The IGZO Case Study, ***Eleni Poupaki (Graduate Student)***[1], *Cas Visser, Freek Klabbers, Adrie Mackus, Erwin Kessels,* Eindhoven University of Technology, The Netherlands	
3:15pm	**AP1+EL+MS+PS+TF-TuA-5** Atomistic Modeling of Atomic Layer Etching and Deposition: HF/SiO2 ALE and TMA/Al2O3 ALD, ***Fedor Goumans,*** Software for Chemistry & Materials, Netherlands	
3:30pm	**BREAK**	
4:00pm	**AP1+EL+MS+PS+TF-TuA-8** Characterizing Directionality, Energy and Spatial Uniformity of Plasma Generated Neutral Beams for Low-Damage Material Processing, ***Gonçalo A. Cardoso (Graduate Student),*** *Mark J. Kushner,* University of Michigan, Ann Arbor	
4:15pm	**AP1+EL+MS+PS+TF-TuA-9** Plasma Etching of Diamond: Molecular Dynamics Studies and Comparison to Experiments, ***Louis Hoffenberg (Graduate Student),*** Princeton University; *Justin Boles,* University of Houston; *Jack Draney,* Princeton University; *Igor Kaganovich,* Princeton Plasma Physics Laboratory; *Vincent Donnelly,* University of Houston; *David Graves,* Princeton University	
4:30pm	**AP1+EL+MS+PS+TF-TuA-10** Predictive Screening of Sustainable Etchants via DFT Thermodynamics, Machine-Learned Vapour Pressures, and Infrared Spectra, ***Christopher Pashartis,*** *Philippe Bezard, Konstantina Philippidou, Geoffrey Pourtois,* IMEC Belgium; *Hideharu Shimizu, Yoshiki Nakoyama,* NSC, Belgium	
4:45pm 5:00pm	**INVITED: AP2+EL+PS+TF-TuA-11** Understanding the Chemical Reaction Mechanisms of Oxide, Nitride and Metal ALD: Insights from Operando X-Ray Photoelectron Spectroscopy, ***Joachim Schnadt,*** Lund University, Sweden	**Atomic Scale Processing Mini-Symposium** **Session AP2+EL+PS+TF-TuA** **Advancing X-Ray Photoelectron Spectroscopy to enable Atomic Scale Processing** **Moderators:** **Eric Joseph**, IBM T.J. Watson Research Center
5:15pm 5:30pm	**INVITED: AP2+EL+PS+TF-TuA-13** In vacuo XPS for Studying ALD Processes, *Matthias Minjauw, Tippi Verhelle, Jin Li, Jolien Dendooven,* ***Christophe Detavernier,*** Ghent University, Belgium	

[1] **TFD James Harper Award Finalist**

Room 317

Thin Films
Session TF1-TuA
VSHOP Fundamentals
Moderators:
Greg Parsons, North Carolina State University,
Junjie Zhao, Zhejiang University, China

2:15pm	**TF1-TuA-1** What Infiltrates What? An Experimental Survey of Precursor-Polymer Vapor Phase Infiltration Chemistries, ***Mark Losego***, *Typher Yom,* Georgia Tech
2:30pm	**TF1-TuA-2** Chemical Stability of Vapor-Phase-Infiltrated Poly(vinylpyrrolidone), Poly(4-vinylpyridine), and Polyacrylonitrile, ***Alexandra Wnuk (Graduate Student)***, *Mark Losego, Typher Yom,* Georgia Institute of Technology
2:45pm	**TF1-TuA-3** Understanding the Vapor Phase Infiltration of Trimethyl Aluminum (TMA) into Polyethylene Terephthalate (PET), ***Mary Kate Broadway (Undergraduate)***, *Mark Losego,* Georgia Institute of Technology
3:00pm	**TF1-TuA-4** Vapor-Phase Synthesis and Process Optimization of Porphyrin-Based Covalent Organic Framework Thin Films, ***Mohammad Arham Khan (Graduate Student)***, *Hamidreza Mohajeri Khorasani, Syed Ibrahim Gnani Peer Mohamed, Mona Bavarian, Siamak Nejati,* University of Nebraska-Lincoln, USA
3:15pm	**TF1-TuA-5** Enhancing Metalized Polymers Disassembly Using Plasma Polymer Films as a Sacrificial Interlayer, ***Alexandre Culot (Graduate Student)***, *Dariane Fadoras, Robin Dantinne,* UMons, Belgium*; Damien Cossement,* Materia Nova Research Center, Belgium*; Jean-Marie Raquez, Damien Thiry,* UMons, Belgium
3:30pm	**BREAK**

Thin Films
Session TF2-TuA
VSHOP Applications I, Membranes and Fluidics
Moderators:
David S. Bergsman, University of Washington,
Siamak Nejati, University of Nebraska-Lincoln

4:00pm 4:15pm	**INVITED: TF2-TuA-8** Selective Transport Through Organic Interfaces via Atomic and Molecular Layer Deposition: Durable Materials and Ion-Selective Membranes, ***Tamar Segal-Peretz,*** Department of Chemical Engineering, Technion, Israel
4:30pm	**TF2-TuA-10** Investigating the Impact of Membrane Hydrophilicity on Long- and Short-Chain PFAS Remediation via Molecular Layer Deposition, ***Joelle Scott (Graduate Student)***, *Jocelyne Booth, Kacey Taylor, Mathangi Venkatesh, Jay Werner, David S. Bergsman,* University of Washington
4:45pm	**TF2-TuA-11** Vapor Phase Infiltration of Metal Oxides into Polymeric Water Treatment Membranes, *Jiaman Wang, Chenhao Yao,* ***Bezawit Getachew***, Rice University
5:00pm 5:15pm	**INVITED: TF2-TuA-12** Molecular Layer Deposition of Salt Sieving Polyamide Membranes, ***Brian Welch***, University of Missouri*; Ruoke Cai, Tamar Segal-Peretz,* Technion Israel Institute of Technology, Israel
5:30pm	**TF2-TuA-14** Tertiary and Aromatic Polyurea Films Deposited Using Molecular Layer Deposition as a Method of Producing Cationic Thin Film Coatings for Use in Microfluidic Design, ***Jay Werner (Graduate Student)***, *David S. Bergsman,* University of Washington

Tuesday Afternoon, November 10, 2026

	Electronic Materials and Photonics **Room 318 - Session EM-TuA** **Pioneering Directions in Logic and Memory Devices and Materials: AI Hardware, Microelectronics, 2D Materials, Processing, Interconnect, Heterogeneous Integration, Energy Cooling** **Moderators:** **M. David Henry**, Sandia National Labs, **Haozhe "Harry" Wang**, Duke University, **Michelle Paquette**, University of Missouri-Kansas City	**Applied Surface Science** **Room 319 - Session AS-TuA** **Applied Surface Science in Action II** **Moderators:** **Tanguy Terlier**, Rice University, **Jeffrey Terry**, Illinois Institute of Technology
2:15pm	**INVITED: EM-TuA-1** Topography as a Design Knob to Create Exotic Electronic Phenomena in 2D Materials, ***Sunny Gupta***, *Boris Yakobson,* Rice University	**INVITED: AS-TuA-1** Quantification of Surface Functional Groups on Nano- and 2D Materials, ***Jörg Radnik***, Federal Institute for Material Research and Testing (BAM), Germany
2:30pm		
2:45pm	**EM-TuA-3** Engineering Precursor Chemistry for Deterministic Growth of Two–Dimensional Semiconductors, ***Andrew Mannix***, Stanford University	**AS-TuA-3** Compositional Analysis of Al1-XScXN Thin Films, ***Jeffrey Shallenberger***, *Saeed Almishal, Jon-Paul Maria,* Penn State University; *G. Bruce Rayner,* Kurt J. Lesker Company
3:00pm	**EM-TuA-4** Natural Organic Fructose based Sustainable Resistive Switching Memory for Neuromorphic Computing, *Md Shakil Jiban,* Missouri University of Science and Technology; *Zhigang Xiao,* Alabama A&M University; ***Feng Zhao***, Missouri University of Science and Technology	**AS-TuA-4** Surface-Engineered Nanostructures for Wastewater Contaminants Sensing and Its Treatment by Thermocatalysts, *Zong-Hong Lin,* National Taiwan University, Taiwan; ***Jinn P. Chu***, National Taiwan University of Science and Technology, Taiwan
3:15pm	**EM-TuA-5** Read Transistor Engineering in Heterogeneous 2T0C DRAM for Multi-level Operation for Artificial Synapse Applications, ***Minkook Kang (Graduate Student)***, *Peter Hayoung Chung, Youngwook Kim, Jae-Gwan Park, Tae-Sik Yoon,* Ulsan National Institute of Science and Technology, Republic of Korea	**AS-TuA-5** Multi-Technique Structural and Chemical Characterization of Native Oxide Evolution on Niobium Thin Films for Nasa Astrophysics Detectors, ***FEMI AKINRINOLA (Graduate Student)***, *Robbyn Trappen, Nethmi Loku Kankanamge, Tap Raj Bhandari,* West Virginia University, USA; *Thomas Stevenson, Emily Barrentine,* NASA Goddard Space Flight Center; *Mikel Holcomb,* West Virginia University, USA
3:30pm	**BREAK**	**BREAK**
4:00pm	**INVITED: EM-TuA-8** 3D Flash Memory Word Line Metallization Evolution, ***Fei Zhou***, *Senaka Kanakamedala,* Sandisk Technologies	**INVITED: AS-TuA-8** Interfacial Solution Structure Impacts Crystal Growth, Ice Nucleation, and Particle Aggregation, ***Elias Nakouzi***, Pacific Northwest National Laboratory; *Mingyi Zhang,* University of Oklahoma; *Kuan-Ting Liu, Dong June Jang*, Cornell University; *Philip Brahana, Bhuvnesh Bharti,* Louisiana State University; *Jaehun Chun,* Pacific Northwest National Laboratory; *Ulrich Wiesner, Lara Estroff,* Cornell University
4:15pm		
4:30pm	**EM-TuA-10** Scalable Growth of Epitaxial Ferroelectric Oxides, ***Peter Meisenheimer***, Kepler Computing; *Tsung-Chi Wu,* UC Berkeley; *Vishantak Srikrishna,* Kepler Computing; *R Ramesh,* UC Berkeley	**AS-TuA-10** Surface Distribution, and Thermal Evolution in Nuclear Graphite: What We Can Learn Using XPS, ***Jonathan Counsell***, Kratos Analytical Limited, UK; *Chris Moffitt,* Kratos Analytical Inc.
4:45pm	**EM-TuA-11** Electrically Tunable Remnant Polarization via Oxygen Vacancy Migration in Ferroelectric Al-doped HfO2-based MIFM structure, ***Youngwook Kim (Graduate Student)***, *Jimin Han, Yong-Sang Cho, Tae-Sik Yoon,* Ulsan National Institute of Science and Technology, Republic of Korea	**AS-TuA-11** Energy Materials and the Importance of Cryo-XPS, ***Liam Soomary***, Kratos Analytical Limited, UK; *Chris Moffitt,* Kratos Analytical Inc.
5:00pm	**EM-TuA-12** Non-Volatile Charge-Trap Memory Characteristics Using Nanocrystal (HfO_2 or ZnO) Charge-Trap Layer Deposited by Atomic Layer Deposition, ***Taeyun Noh (Graduate Student)***, *So-Young Lim, Jimin Han, Tae-Sik Yoon,* Ulsan National Institute of Science and Technology, Republic of Korea	**AS-TuA-12** In-Vacuo Detection of Ti Hydride Using Advanced XPS Technique, ***Ravi Prakash***, *Jacqueline van Veldhoven,* Semicon Equipment Lifetime, TNO, the Netherlands Organisation for Applied Scientific Research, Netherlands; *Herman Bekman, Leon Arkesteijn,* Semicon Equipment Metrology, TNO, the Netherlands Organisation for Applied Scientific Research, Netherlands; *Ronald Hultermans, Violeta Navarro Paredes, Mark van de Kerkhof,* ASML, Veldhoven, Netherlands
5:15pm	**EM-TuA-13** A Scalable Approach to Bioinspired Films for Passive Daytime Radiative Cooling, ***Emily McGuinness***, *Joshua Goetze, Christopher Ellison, Vivian Ferry,* University of Minnesota	**AS-TuA-13** Chemical Mapping of sub-Monolayer Oxygen Functionalities on Acid Treated HOPG Surfaces Through Photo-Induced Force Microscopy, ***David Morgan***, Cardiff University, UK
5:30pm	**EM-TuA-14** Surface Oxygen Chemistry Governing Air Stability of Ti3C2Tx, ***Xingjian Hu***, *Haozhe Wang,* Duke University	

Room 320

Nanoscale Science and Technology
Session NS-TuA
Multimodal Techniques in Surface and Interface Engineering at the Nanoscale II
Moderators:
Taisuke Ohta, Sandia National Laboratories

2:15pm	**INVITED: NS-TuA-1** Multimodal Investigation and Interface Engineering of Near-Surface Diamond Quantum Defects, ***Nazar Delegan,*** Argonne National Laboratory
2:30pm	
2:45pm	**NS-TuA-3** Multi-Technique Nanoscale Probe Studies of Intercalated Phases of Pb, Gd and Dy Under Graphene on SiC, ***Shen Chen***[1], *Salma Khatun, Umamahesh Thupakula,* Ames National Laboratory*; Zhe Fei,* Iowa State University*; Marek Kolmer,* Ames National Laboratory*; Michael C. Tringides,* Iowa State University
3:00pm	**NS-TuA-4** Linking Sers Spectral Variability to Reliable Detection of Low-Affinity Analytes via Plasmonic Substrate Physics and Machine Learning, ***Amit Kumar (Graduate Student)***[2], *Fengbo MA,* University of Georgia*; Susu M. Zughaier,* Qatar University, Qatar*; Xianyan Chen, Yiping Zhao,* University of Georgia
3:15pm	
3:30pm	**BREAK**

The Future of Temperature Sensing
Session TS-TuA
The Future of Temperature Sensing I
Moderators:
Nikolai Klimov, National Institute of Standards and Technology,
Sesha Challa, NIST-Gaithersburg

4:00pm	**INVITED: TS-TuA-8** Keynote Talk: The Transformation of Temperature Traceability, ***Graham Machin,*** National Physical Laboratory, U.K.
4:15pm	
4:30pm	
4:45pm	**TS-TuA-11** Dual-Mode Fiber-Optic Refractive-Index Gas Thermometry for Primary Calibration and Continuous Temperature Tracking to 1000 K, *Musaddeque Syed,* ***Ming Han,*** Michigan State University
5:00pm	**TS-TuA-12** A Projected Refractive Index Gas Thermometer Revisited, ***Patrick Egan,*** National Institute of Standards and Technology (NIST)
5:15pm	**TS-TuA-13** Wide-Temperature-Range Luminescence Thermometry, ***Yuanbing Mao,*** Illinois Institute of Technology
5:30pm	**TS-TuA-14** Group V Metalates as High-Temperature Thermosensitive Phosphors, ***Federico Rabuffetti,*** Wayne State University

[1] **NSTD Early Career Award Finalist**

Room 321

Biomaterial Interfaces
Session BI-TuA
Functional Materials and Biosensing
Moderators:
Kenan Fears, U.S. Naval Research Laboratory,
Morgan Hawker, California State University, Fresno

2:15pm – 2:30pm
INVITED: BI-TuA-1 Fibronectin and ECM-Mediated Regulation of Synovial Fluid Film Formation and Nanomechanics, ***Roberto Andresen Eguiluz***, University of California Merced

2:45pm
BI-TuA-3 Magnetic Microparticle Biointerfaces for Fluorescence-Based Detection of C-Reactive Protein in Biological Fluids, *Pegah Jamali, Zia Syed,* ***Umer Hassan***, Rutgers, The State University of New Jersey

3:00pm
BI-TuA-4 Peptide Biosensor for Pathological Tau Detection in Neurodegenerative Disease, ***Megan Pitz***, *Rebecca Mickol, Hugo Miranda Quijada, Sean Brown, Kenan Fears, Maryssa Beasley,* US Naval Research Laboratory

3:15pm

3:30pm
BREAK

Materials and Innovations for Fusion Energy
Session FUS-TuA
Materials and Innovations for Fusion Energy
Moderators:
Eric Dombrowski, Commonwealth Fusion Systems,
Zachary Robinson, Laboratory for Laser Energetics, The University of Rochester

4:00pm – 4:15pm
INVITED: FUS-TuA-8 Challenges in Tritium Surface Characterisation: From Memory Effects to Fusion byproducts management, ***Florian Priester***, *Dominic Batzler, Robin Größle, Michael Sturm, Simon Niemes, Alexander Marsteller,* Karlsruhe Institute of Technology - Tritium Laboratory, Germany

4:30pm – 4:45pm
INVITED: FUS-TuA-10 Evaluating the Performance of Next Generation Plasma-Facing Materials, ***Robert Kolasinski***, Sandia National Laboratories; *Kent Christian,* Stony Brook University; *Jonathan Coburn, Antonio Cruz, Feng-Jen Chang, Mary Alice Cusentino,* Sandia National Laboratories; *Lance Snead, Jason Trelewicz, David Sprouster,* Stony Brook University

5:00pm
FUS-TuA-12 Optimised Variable-Temperature Cryocooler Design for Reduced Tritium Inventory and Operational Risk, *Pankaj Sharma, Robert Buchanan, Adam Bruce,* ***William Schofield***, UKAEA, UK

5:15pm
FUS-TuA-13 Pellet Flight Path Design Challenges and Solutions for ITER, ***Matt Williamson***, *Sarah Smith, Steven Meitner, Eileen Sibley, Oscar Martinez,* Oak Ridge National Laboratory

5:30pm
FUS-TuA-14 Westinghouse'S Experience in the Fabrication and Welding of ITER'S Vacuum Vessel Sectors, *Stefano Batticci,* Westinghouse Italy; ***Simon Roche***, Westinghouse Electric France; *Paolo Ferroni,* Westinghouse Electric Company

Room 303

8:00am	**SE-WeM-1** Tailoring the Performance of MXene-Reinforced PEEK Composite Coatings through Optimised Powder Mixing Strategies, ***Mikdat Gurtaran***, *A. Madhan Kumar,* King Fahd University of Petroleum and Minerals, Saudi Arabia	**Advanced Surface Engineering** **Session SE-WeM** **Advanced Surface Engineering I** **Moderators:** **Diana Berman**, University of North Texas, **Ivan Petrov**, University of Illinois at Urbana-Champaign
8:15am	**SE-WeM-2** Friction and Wear of Composite MXene/MoS_2 Coating Under Low-Viscosity Fuels, ***Ali Zayaan Macknojia (Graduate Student)***[1], *Diana Berman, Andrey Voevodin, Samir Aouadi,* University of North Texas; *Stephen Berkebile,* Army Research Laboratory	
8:30am	**SE-WeM-3** Fabrication of $CrMoNbWTiC_x$ High Entropy Alloy Sublattice Carbide Films by High Power Impulse Magnetron Sputtering System: Effect of Target Poisoning, ***Jyh-Wei Lee***, Ming Chi University of Technology, Taiwan; *Chun-Hao Cheng, Yung-Chin Yang,* National Taipei University of Technology, Taiwan; *Bih-Show Lou,* Chang Gung University, Taiwan; *Chia-Lin Li,* Ming Chi University of Technology, Taiwan	
8:45am	**SE-WeM-4** Combinatorial Sputter Deposition of Low-Emissivity Metal Binaries for Extreme Environments, ***Ryan Spangler***, *Kyle Dorman, Finley Haines, Cedric Shaskey, Anthony McDonald, Brooklynn Nash, Toai Ton-That, Amun Jarzembski, David Adams,* Sandia National Laboratory	
9:00am	**SE-WeM-5** Fundamentals of Thin Film Growth Dynamics: Advances in Hybridizing CFUBMS and HiPIMS, ***Esteban Broitman***, Sentys, Sweden; *Hailin Sun,* Teer Coatings Ltd, AO,UK	
9:15am	**SE-WeM-6** Guinier-Preston Zone Hardening and Thermal Stability of Metastable Nacl-Structure Refractory Nitrides, ***Ivan Petrov***, University of Illinois; *Vladyslav Rogoz, Sanjay Kumar,* Linköping University, Sweden; *Marcus Hans, Jochen M. Schneider,* RWTH Aachen University, Germany; *Lars Hultman,* Linköping University, Sweden, Ming Chi University of Technology, Taiwan, Sweden; *Davide G. Sangiovanni, Grzegorz Greczynski,* Linköping University, Sweden	
9:30am		
9:45am		
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**	
11:00am	**INVITED: AIML-WeM-13** AI/ML Techniques for Molecular Beam Epitaxy, ***Stephanie Law***, Pennsylvania State University	**AI/ML/Autonomous Experimentation for Thin Films Processing** **Session AIML-WeM** **AI/ML for Process Monitoring, Optimization, and Autonomous Synthesis: MBE, ALD/MLD, PLD, and IR Imaging** **Moderators:** **Renato Camata**, University of Alabama at Birmingham, **Michael Nolan**, Tyndall National Institute, University College Cork, Ireland
11:15am		
11:30am	**AIML-WeM-15** Statistical Analysis of Pressure-Growth Correlations in Temporal ALD and MLD toward the Identification of Process Deviations, *Andrew Ball, Joelle Scott, Jay Werner,* ***David Bergsman***, University of Washington	
11:45am	**AIML-WeM-16AIML2** ASSD Student Award Finalist Presentation: Leveraging Convolutional Neural Networks (CNN) for the Real-Time Classification of Melt-Fraction of Phase Change Materials (PCMs) Using Infra-Red (I.R.) Imaging, ***Nishit Pachpande (Graduate Student)*** [2], *Anusree Sen, Debjyoti Banerjee,* Texas A&M University	

[1] **AVS Dorothy M. and Earl S. Hoffman Scholarship Recipient**

[2] **ASSD Student Award Finalist**

Wednesday Morning, November 11, 2026

	2D Materials **Room 304 - Session 2D-WeM** **2D Materials: Electronic, Magnetic, Mechanical, and Optical Properties** **Moderators: Victor Brar**, University of Wisconsin - Madison, **Souvik Sasmal**, Argonne National Laboratory	**Surface Science** **Room 305 - Session SS-WeM** **Heterogeneous Catalysis** **Moderators: Gengnan Li**, Argonne National Laboratory, **Joerg Libuda**, Friedrich-Alexander-University Erlangen-Nürnberg (FAU), Germany
8:00am		**INVITED: SS-WeM-1** Molecular Systems for Reversible Hydrogen Storage: Atomistic-Level Insights, ***Swetlana Schauermann***, Kiel University, Germany
8:15am	**2D-WeM-2** Clean Integration of h-BN Encapsulated Graphene Heterostructures with Ferroelectric $Al_{1-x}B_xN$ Thin Films for Robust Carrier Concentration Modulation, ***Joseph Hladik (Graduate Student)***, Penn State University; *Aswini Ramankutty,* University of Pittsburgh; *K. M. Daiyan*, Penn State University; *Jeremy Levy, Patrick Irvin,* University of Pittsburgh; *Beth Dickey,* Carnegie Mellon University; *Morteza Kayyalha, Jon-Paul Maria*, Penn State University	
8:30am	**INVITED: 2D-WeM-3** Hidden in Plain Sight: Aromaticity of Hexagonal Boron Nitride, *Suryakanti Debata,* Laboratory for Physical Sciences; *Sai Krishna Narayanan,* University of Maryland College Park; ***Pratibha Dev***, Laboratory for Physical Sciences	**SS-WeM-3** When Interfaces Break Scaling: Metal–Ceria Catalysts for Selective Methane Conversion, ***Maria Veronica Ganduglia-Pirovano***, *Pablo G. Lustemberg, Estefanía Fernández-Villanueva,* Instituto de Catálisis y Petroleoquímica-CSIC, Spain
8:45am		**SS-WeM-4** Supported Ni-Cu Catalysts for the Selective Dehydrogenation of Liquid Organic Hydrogen Carriers, ***Donna Chen***, *Nirmal Phuyal, Mengxiong Qiao, Biplab Budhathoki,* University of South Carolina
9:00am	**2D-WeM-5** Damage-Free Fabrication of Single Photon Emitters in Hexagonal Boron Nitride by Remote Plasma Generation of Vacancies, *Souvik Bhattacharya, Swetapadma Sahoo,* University of Illinois Urbana-Champaign; *Simeon Bogdanov,* University of Illinois Urbana Champaign; ***R. Mohan Sankaran***, University of Illinois Urbana-Champaign	**SS-WeM-5** Surface Structure, Stability, and Catalytic Reactivity of Metal Nanoparticles Supported on Tantalum Oxide, ***Ravi Ranjan***, *Francisco Zaera,* University of California - Riverside
9:15am	**2D-WeM-6** Probing Static and Dynamical Phenomena in Magnetic Systems Using Spin Defects in Hexagonal Boron Nitride, ***Kartik Shah (Graduate Student)***, *Pratyush Saud,* Carnegie Mellon University; *Anshuman Sahoo, Ravi Kumar Bandapelli, Raghvendra Posti, I-Hsuan Kao,* Carnegie Mellon University, USA; *James Edgar,* Kansas State University; *Jyoti Katoch, Simranjeet Singh,* Carnegie Mellon University, USA	
9:30am	**2D-WeM-7** Characterization of Optically Active Spin Defects in hBN as Quantum Sensors, ***Pratyush Saud (Graduate Student)***, *Anshuman Sahoo, Kartik Shah,* Carnegie Mellon University, USA; *I-Hsuan Kao,* Taiwan Semiconductor Manufacturing Company; *Raghvendra Posti, Ravi Kumar Bandapelli,* Carnegie Mellon University, USA; *James H. Edgar,* Kansas State University; *Jyoti Katoch, Simranjeet Singh,* Carnegie Mellon University, USA	**INVITED: SS-WeM-7** Catalysis with Liquid Gallium Alloys, ***Christian Papp***, Freie Universität Berlin, Germany
9:45am	**2D-WeM-8** Towards Probing spin dynamics in mesoscopic sized 2D magnets, ***Anshuman Sahoo (Graduate Student)***, *Pratyush Saud, I-Hsuan Kao, Raghvendra Posti,* Carnegie Mellon University; *Kartik Shah,* carnegie Mellon University; *Ravi Kumar Bandapelli,* Carnegie Mellon University; *Bing Lv,* University of Texas at Dallas; *Jyoti Katoch,* Carnegie Mellon University; *Simranjeet Singh,* carnegie Mellon University	
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**	**BREAK - Complimentary Coffee in Exhibit Hall**
11:00am	**INVITED: 2D-WeM-13** A New Topological Monolayer, ***Qiong Ma***, Boston College	**INVITED: SS-WeM-13** Ni as a Promotor for Ethylene Epoxidation: Computation, Surface Science, and Reactor Studies, ***Matthew Montemore***, Tulane University
11:15am		
11:30am	**2D-WeM-15** Spatially-resolved Voltage-reversal due to Bernoulli Potentials in Dissipative Bi2Sr2CaCu2O8+x, ***Sharadh Jois***, *Gregory M. Stephen, Samuel W. LaGasse,* Laboratory for Physical Sciences; *Genda Gu,* Brookhaven National Laboratory; *Aubrey T. Hanbicki, Adam L. Friedman,* Laboratory for Physical Sciences	**SS-WeM-15** Tuning Oxygen Activation on Gold with RhAu Single-Atom Alloys, ***Dennis Meier***, *Vinita Lal, E. Charles H. Sykes,* Tufts University
11:45am	**2D-WeM-16** Signature of Ferromagnetic and Ferroelectric Coupling in WTe_2/Cr2Ge2Te6 Heterostructures, ***Zhenhong Cui (Graduate Student)***, *Ravi Kumar, I-Hsuan Kao, Raghvendra Posti, Jyoti Katoch, Simranjeet Singh,* Carnegie Mellon University	**SS-WeM-16** Reaction Product and Single-Atom Promotion of Acetylene Cyclotrimerization and Cross-Coupling on Ag(111), ***Nipun Kahagalla Dewage (Graduate Student)***[1], Tufts University; *Santu Biswas,* Tulane University; *Volkan Cinar, Dennis Meier,* Tufts University; *Matthew Montemore,* Tulane University; *Charles Sykes,* Tufts University
12:00pm	**2D-WeM-17** Electrical Detection of NéEl Vector Reversal in a Van Der Waals Antiferromagnet, ***Raghvendra Posti***, *Ravi Kumar Bandepalli,* Carnegie Mellon University; *Wenhao Liu*, The University of Texas at Dallas; *Anshuman Sahoo, Pratyush Saud,* Carnegie Mellon University; *Zixin Zhai,* The University of Texas at Dallas; *Zhenhong Cui, I-Hsuan Kao, Aalok Tiwari,* Carnegie Mellon University; *Thomas Poirier, James H. Edgar,* Kansas State University; *Kenji Watanabe, Takashi Taniguchi,* National Institute for Materials Science, Japan; *Bing Lv,* The University of Texas at Dallas; *Jyoti Katoch, Simranjeet Singh,* Carnegie Mellon University	**SS-WeM-17** Selective Hydrogenation of Styrene to Ethylbenzene Over a Pd/Cu(111) Single Atom Alloy Surface, ***Mohammad Rahat Hossain (Graduate Student)***, *Michael Trenary,* University of Illinois - Chicago

[1] **SSD Morton S. Traum Award Finalist**

Room 315

Plasma Science and Technology
Session PS1-WeM
Plasmas for 3D Integration
Moderators:
Hiroyuki Fukumizu, KIOXIA, Japan,
Jeffrey Shearer, TEL Technology Center, America, LLC

8:00am	**INVITED: PS1-WeM-1** Challenges in Plasma Etching for 3D Interconnect Technology, ***Violeta Georgieva***, *Jeongsoo Kim, Eoin Jackman, Quyang Lin, Katia Devriendt,* IMEC, Belgium
8:15am	
8:30am	**PS1-WeM-3** Low Global Warming Potential (GWP) Gases for Deep Si Etch for Through-Silicon Via (TSV) Applications, *Richa Agrawal, Gloria Fraczak, Nathan Marchack,* IBM Research*; Yohei Takakura,* DAIKIN INDUSTRIES, LTD.*; Teodor Todorov, Martin M. Frank, Jaylynn Sheppard, Jose Daboin, Brian Pham,* IBM Research*; Kazunori Horiguchi,* DAIKIN INDUSTRIES, LTD.*; Yasuhiro Nojiri, Hisataka HAYASHI,* DAIKIN INDUSTRIES, LTD., Japan*; **Eric Joseph**, Robert L. Bruce,* IBM Research
8:45am	**PS1-WeM-4** Multiscale Modeling Approach for Bosch Silicon Etching Process Coupled to Machine Learning, Toward a Fast Etching Process Optimization, *Rim Ettouri,* Nantes Université, CNRS, Institut des Matériaux de Nantes Jean Rouxel (IMN), France*; Fatima-Zahrae Hilal, Valeria Borodin,* IMT Atlantique, CNRS, Nantes Laboratory of Digital Sciences, LS2N, France*; **Ahmed RHALLABI**,* Nantes University, CNRS, Institut des Materiaux de Nantes Jean Rouxel, IMN, France
9:00am	**PS1-WeM-5** Feature-Scale Model of Si Plasma Etching in $SF_6/O_2/SiF_4$ Mixtures, ***Maryam Khaji***, University of Michigan, Ann Arbor*; Fatima Jenina Arellano, Kouta Kawahara, Noboru Yamaguchi, Taichi Suzuki, Tadamasa Kobayashi, Kenta Doi,* Ulvac Technologies, Inc., Japan*; Mark J. Kushner,* University of Michigan, Ann Arbor
9:15am	**PS1-WeM-6** Transport Gradient Model of Oxygen and Fluorine Flux Ratio in High-Aspect-Ratio Silicon Etching, ***Kenji Ishikawa***, *Shuto Tsuchioka, Trung Nguyen Tran, Kenichi Inoue, Takayoshi Tsutsumi,* Nagoya University, Japan*; Thi-Thuy-Nga Nguyen,* nagoya University, Japan
9:30am	**PS1-WeM-7** Effects of Discharge Frequency and Precursor Molecule on the Deposition Rate, Film Density, and Residual Stress of a-C:H Hard Masks, ***Kazunori Koga***, *Shunpei Ohara, Soichiro Yoshida, Ryosuke Kinnami, Shinjiro Ono, Takamasa Okumura, Kunihiro Kamataki, Naho Itagaki, Masaharu Shiratani,* Kyushu University, Japan
9:45am	**PS1-WeM-8** Impact of HBr/H2 Gas Mixture on Etching of GeSexTe1-x Chalcogenide Thin Films for Reconfigurable and Nonlinear Photonics, ***Giovanni BEDOUI (Graduate Student)***, CEA-LETI, France*; Aurélien TAVERNIER, Yoann BRULE, Jean-Baptiste DORY, Pierre MEILLEUR, Jules LAGRAVE, Clémence JAMIN-MORNET, Pierre NOE,* CEA-Leti, France
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**

Plasma Science and Technology
Session PS2-WeM
Plasma Applications in Packaging and Wafer Bonding
Moderators:
Kenji Ishikawa, Nagoya University, Japan,
Jeffrey Shearer, TEL Technology Center, America, LLC

11:00am	**INVITED: PS2-WeM-13** Etch Opportunities in Advanced Packaging, Silicon, and Optical Photonics, ***Brittany Hedrick***, Tokyo Electron America
11:15am	
11:30am	**PS2-WeM-15** Impact of Surface Activation Plasma Chemistry on AlN - Oxide Wafer Bonding for BSPDN Applications, ***Chetan Jois***, *Ryan Allen, Yusuke Suzuki, Andrew Tuchman, Christopher Netzband, Rinus Lee, Ilseok Son,* Tokyo Electron America, Inc.
11:45am	**PS2-WeM-16** Optimization of Dielectric Plasma Activation for Wafer to Wafer Fusion Bonding, ***Christopher Netzband***, Tokyo Electron America Inc.*,; Andrew Tuchman, Ilseok Son, Angelique Raley,* Tokyo Electron America, Inc.
12:00pm	**PS2-WeM-17** Plasma-Induced Surface Modification of Indium for Improved Bonding, ***Kristen Steffens***, National Institute of Standards and Technology (NIST)*; Sujitra Pookpanratana,* National Institute of Science and Technology (NIST)*; Junyeob Song, Marcelo Davanco, Tammy Lucas, John Biesecker, Daniel Schmidt,* National Institute of Standards and Technology (NIST)

Room 316

Atomic Scale Processing Mini-Symposium
Session AP+EL+PS+TF-WeM
Thermal and Plasma Enhanced Atomic Layer Etching
Moderators:
Eric A. Joseph, IBM Research Division, T.J. Watson Research Center,
Erwin Kessels, Eindhoven University of Technology, the Netherlands

8:00am 8:15am	**INVITED: AP+EL+PS+TF-WeM-1** Cyclic dielectric etching challenges for next-generation FDSOI logic and quantum devices, ***François Boulard***, CEA-LETI, France; *Ramy Ayoub,* CEA-LETI, France, Lebanon; *Emmanuel Petitprez, Stéphane Pocas, Nicolas Gauthier, Benoit Martin, Pierre Brianceau, Antoine Ronco,* CEA-LETI, France; *Bernard Pelissier,* LTM-CNRS, France; *Nicolas Posseme,* CEA-LETI, France
8:30am	**AP+EL+PS+TF-WeM-3** Atomic Layer Etching of TiN using O_2/Ar Plasma and SF_6/H_2/Ar Plasma Half-Cycles, ***Kazuya Tajima,*** Hitachi High-Tech Corporation, Japan; *Andrew P. Kaye,* Colorado School of Mines; *Kazumasa Okuma, Hiroaki Ishimura,* Hitachi High-Tech Corporation, Japan; *Sumit Agarwal,* Colorado School of Mines
8:45am	**AP+EL+PS+TF-WeM-4** Atomic Layer Etch Process for InGaAs Using (CH4+H2)/Ar+ Plasma, ***Burak Okur (Graduate Student)***, *Ryan Walsh, J. Russell Renzas,* University of Nevada, Reno; *Phuc Pham,* University of Oregon
9:00am	**AP+EL+PS+TF-WeM-5** O2/CF4/Ar+ 3-Step Plasma Atomic Layer Etch Process for Aluminum, ***Ryan Walsh (Graduate Student)***, *Burak Okur, J. Russell Renzas,* University of Nevada, Reno
9:15am	**AP+EL+PS+TF-WeM-6** Directional Atomic Layer Etching of Lithium Niobate for Nonlinear Integrated Nanophotonics, ***Ivy Chen (Graduate Student)***[1], California Institute of Technology; *Frank Greer,* Jet Propulsion Laboratory (NASA/JPL); *Austin Minnich,* California Institute of Technology
9:30am	**AP+EL+PS+TF-WeM-7** Native Oxide Removal and Passivation of Niobium for Superconducting Devices, ***Jessica Jones***, Argonne National Laboratory; *Jeffrey Elam,* Argonne National Laboratory, USA
9:45am	**AP+EL+PS+TF-WeM-8** Thermal Atomic Layer Etching of the Semiconductor Oxide Channel Materials by Sequential Surface Modification and Volatile Release Reactions, ***Muhammad Hamza Ansar (Graduate Student)***, *Steven George,* University of Colorado Boulder
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**
11:00am 11:15am	**INVITED: AP+EL+PS+TF-WeM-13** Isotropic Atomic Layer Etching via Thermal-Cyclic Processing: Broad Material Capabilities with a Focus on Work–Function Metal Films, ***Kazunori Shinoda,*** Hitachi High-Tech Corporation, Japan; *Thi-Thuy-Nga Nguyen, Shunya Hirai,* Nagoya University, Japan; *Nobuya Miyoshi,* Hitachi, Ltd., Japan; *Masaru Izawa,* Hitachi High-Tech Corporation, Japan; *Kenji Ishikawa, Masaru Hori,* Nagoya University, Japan
11:30am	**AP+EL+PS+TF-WeM-15** Selective Thermal Chemical Vapor Etching (CVE) and Atomic Layer Etching (ALE) of Ge Versus Si, ***Micah Duffield (Graduate Student)***, *Marcel Junige, Steven George,* University of Colorado at Boulder
11:45am	**AP+EL+PS+TF-WeM-16** Controlled SiO_2 Etch Rates Using a HF/H_2O Liquid-Layer in a Vacuum Environment: Dependence on H_2O and HF Pressures, ***Samantha Rau (Graduate Student)***, University of Colorado at Boulder; *Antonio Rotondaro, Hanna Paddubrouskaya, Kate Abel,* Tokyo Electron America, Inc.; *Steven George,* University of Colorado at Boulder
12:00pm	**AP+EL+PS+TF-WeM-17** Thermal Selective Etching of $Si_{1-x}Ge_x$ in XeF_2, ***Daniel Cho (Graduate Student)***, *Yi Chen, Harrison Cameron,* UCLA; *John Hoang, Nick Altieri, Ji Zhu, Samantha Tan,* Lam Research Corporation; *Jane P. Chang,* UCLA

[1] **PSTD Coburn & Winters Student Award Finalist**

Room 317

8:00am	**TF1-WeM-1** Thin-film and Redox-active Polyvinyl Metallocene via Chemical Vapor Deposition, *Shadi Motamed,* ***Hamidreza Mohajeri Khorasani,*** *Maria Aydt, Mona Bavarian, Siamak Nejati,* University of Nebraska-Lincoln	**Thin Films** **Session TF1-WeM** **VSHOP Hybrid CVD and MLD** **Moderators:** **Sumit Agarwal**, Colorado School of Mines, USA, **Matthias Young**, University of Missouri
8:15am	**TF1-WeM-2** Amine Functionalization of Polydioxanone at Low Temperature By oMLD of Poly(p-phenylenediamine), ***Nazifa Z. Khan (Graduate Student)***, *Nikhila C. Paranamana, Xiaohua Liu, Matthias J. Young,* University of Missouri-Columbia	
8:30am	**TF1-WeM-3** oCVD Enabled Conjugated Polymer Alloying for Filler-Free High-Capacity Chloride Storage Cathodes, ***Aqeel Khan (Graduate Student)***, *Trisha Andrew,* University of Massachusetts - Amherst	
8:45am	**TF1-WeM-4** Rational Design of Fluoroalkyl-Free Liquid-Repellent Coatings Accessed via Photoinitiated Chemical Vapor Deposition (piCVD), ***Camryn Payne (Graduate Student)***, *Sejin Choi, Aruzhan Abdikadyrova, Trisha Andrew,* UMass Amherst	
9:00am	**INVITED: TF1-WeM-5** Designing Functional Polymer Thin Films via Initiated Chemical Vapor Deposition, ***Stefan Schröder***, Kiel University, Germany	
9:15am		
9:30am	**TF1-WeM-7** Kinetically Defined Radical Quenching Window for Area-Selective Photoinitiated Chemical Vapor Deposition (AS-PiCVD), ***Junjie Zhao***, Zhejiang University, China	
9:45am	**TF1-WeM-8** Development of Vapor-Imprinted Polymers for Food Spoilage Monitoring via Selective Acetoin Detection, ***HUIDA DUAN (Graduate Student)***, *Ze Zong, Jacob Lahne, Rich Helm, Haibo Huang, Sean O'Keefe, Wei Zhou, Yifan Cheng,* Virginia Tech	
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**	
11:00am	**INVITED: TF2-WeM-13** Molecular Layer Deposition of Polyurea Film and their Role in Sidewall Passivation during Reactive Ion Etching in HF Plasmas, ***Sumit Agarwal***, Colorado School of Mines	**Thin Films** **Session TF2-WeM** **VSHOP Applications II, Semiconductor Manufacturing** **Moderators:** **Jeffrey Elam**, Argonne National Laboratory, **Adrie Mackus,** Eindhoven University, Netherlands
11:15am		
11:30am	**TF2-WeM-15** Realizing Controlled Porosity in Atomic Layer Deposited Metal Oxides, ***Nicholas Strandwitz***, Lehigh University	
11:45am	**TF2-WeM-16** Coordination-Driven Ambient Infiltration of Silicon and Germanium Precursors for the Synthesis of Polymer–Inorganic Hybrid Materials, ***Shaghayegh (Poppy) Abtahi (Graduate Student)***, Iowa State University	
12:00pm	**TF2-WeM-17** Negative-Tone PMMA-InOx Hybrid Resist Prepared by Sequential Infiltration Synthesis, ***Jiwoong Ham (Graduate Student)***, *Minkyung Ko, Young Heon Kim,* Chungnam national university, Republic of Korea; *Hyeong-U Kim,* Korea Institute of Machinery and Materials, Republic of Korea; *Nari Jeon,* Chungnam national university, Republic of Korea	

Wednesday Morning, November 11, 2026

	Electronic Materials and Photonics **Room 318 - Session EM-WeM** **Advances in Wide Bandgap, Piezoelectric Materials and Devices** **Moderators: Erin Cleveland**, Laboratory of Physical Sciences, **Seth King**, University of Wisconsin - La Crosse, **Daniel Pennachio**, Naval Research Laboratory	**Applied Surface Science** **Room 319 - Session AS-WeM** **Advances in Sputtering** **Moderators:** **Alexander Shard**, National Physical Laboratory, UK, **Lyndi Strange**, Pacific Northwest National Laboratory
8:00am	**INVITED: EM-WeM-1** Rigorous Electrostatic Constraints for Interface State Extraction in Wide-Bandgap MOS Devices, ***Brian Rummel,*** Sandia National Laboratories	**AS-WeM-1** Non-destructive XPS Depth Profiling Using a Three-Anode HAXPES Source with Simultaneous (Angle-Resolved) Data Collection over a Range of Angles, ***Max Clark (Graduate Student)***, Brigham Young University*; Paul Dietrich,* SPECS Surface Nano Analysis GmbH, Germany*; Joshua Pinder,* specs Surface Nano Analysis GmbH*; Andreas Thissen,* SPECS Surface Nano Analysis GmbH, Germany*; Matthew Linford,* Brigham Young University
8:15am		**AS-WeM-2** XPS Depth Profiling of Multilayer Stacks using Femtosecond Laser Ablation (fs-LA), ***Charlie Chandler (Graduate Student)***, University of Surrey, UK*; Dhilan Devadasan, Paul Mack, Robin Simpson, Tim Nunney,* Thermo Fisher Scientific, UK*; Mark Baker,* University of Surrey, UK
8:30am	**EM-WeM-3** Doping Dependent Defect Formation in Heavy Ion Irradiated β-Ga2O3, ***Mark Gordon (Graduate Student)***, University of Dayton*; Daram Ramdin,* Air Force Research Laboratory, Materials and Manufacturing Directorate, USA*; Eric O'Quinn,* University of Tennessee Knoxville*; Jian Li, Brenton Noesges, Prescott Evans,* Air Force Research Laboratory, Materials and Manufacturing Directorate, USA*; Maik Lang,* University of Tennessee Knoxville*; Shin Mou, Adam Charnas, Adam Neal,* Air Force Research Laboratory, Materials and Manufacturing Directorate, USA*; Christopher Muratore,* University of Dayton*; Thaddeus Asel,* Air Force Research Laboratory, Materials and Manufacturing Directorate, USA	**AS-WeM-3** Calibration of Removal Rates for fs-Laser Ablation XPS Depth Profiling, ***Tim Nunney,*** Thermo Fisher Scientific, UK*; Charlie Chandler,* University of Surrey, UK*; Robin Simpson, Paul Mack,* Thermo Fisher Scientific, UK
8:45am	**EM-WeM-4** Influence of Substrate Orientation and Surface Treatments on n-Ga2O3/p-GaN Heterointerface Quality, ***Daniel Pennachio***, *Frank Kelly, Katie Gann, Emma Rocco, Michael Mastro,* U.S. Naval Research Laboratory	**AS-WeM-4** Low-k SiOC Etching: Correlating Surface Reaction Mechanisms with SiOC/poly-Si Etching Selectivity, ***Sang-Jin Chung (Graduate Student)***, University of Maryland, College Park*; Pingshan Luan, Adam Pranda, Yusuke Yoshida,* Tokyo Electron America, Inc.*; Gottlieb S. Oehrlein,* University of Maryland, College Park
9:00am	**EM-WeM-5** A Comparison of Cr/Au and Ti/Au Ohmic Contacts on β-Ga_2O_3, ***Carlo Schettini (Graduate Student)***, Carnegie Mellon University*; Kim Kisslinger,* Brookhaven National Laboratory*; Isabella Williams, Xipin Chen, Reid Captain,* Carnegie Mellon University*; Judith Yang,* Brookhaven National Laboratory*; Lisa Porter,* Carnegie Mellon University	**AS-WeM-5** AFM Analysis of Surface Morphology and Grain Growth in Ag Thin Films Prepared by RF Magnetron Sputtering, ***Kenneth Lathrum (Graduate Student)***, *Samuel Goutierrez, Jhonatan Gil Romero, Seonhee Jang,* University of Louisiana
9:15am	**EM-WeM-6** Temperature-Driven Reversible Carrier-Polarity Switching in Bi-Doped SnSe, ***Mehmet Ozdogan***, *Thomas Iken, Carlos Munoz, Deniz Cakir, Nuri Oncel,* University of North Dakota	**AS-WeM-6** Non-Destructive Depth Profiling with a Multi-Colored Monochromated X-Ray Source, ***Paul Dietrich***, *Emilie Gérouville, Andreas Thissen,* SPECS Surface Nano Analysis GmbH, Germany
9:30am	**EM-WeM-7** Hybrid MBE for Freestanding Ultra-wide Bandgap $CaSnO_3$ Thin Films Using a Water-soluble BaO Sacrificial Layer, ***Sooho Choo (Graduate Student)***[1], *Dong Kyu Lee, Rishi Raj, Alyssa Bragg, Seung Gyo Jeong, Ho-Sung Shin, Shivasheesh Varshney, Jitin Sathish Kumar, K. Andre Mkhoyan, Alexander S McLeod,* University of Minnesota*; Anderson Janotti,* University of Delaware*; Bharat Jalan,* University of Minnesota	**AS-WeM-7** Evaluating Oxygen Gas Cluster Ion Beams for Inorganic Depth Profiling in Tof–Sims, ***Thierry Conard***, IMEC, Belgium*; Wilfried Vandervorst, Claudia Fleischmann,* imec and KU Leuven (University of Leuven), Belgium
9:45am	**EM-WeM-8** Spatial Mapping of Spin Wave Dynamics in Shape-Optimized Magnetostatic Wave Cavity Filters, ***Kelsey Collins***, Air Force Research Laboratory	
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**	**BREAK - Complimentary Coffee in Exhibit Hall**
11:00am	**EM-WeM-13** Suppression of Stacking Fault Expansion in SiC Epitaxial Layers via Substrate Implantation, ***Rachael Myers-Ward***, *Alec Imhof, Nadeemullah Mahadik,* U.S. Naval Research Laboratory*; Benjamin Sekely, Jenifer Hajzus,* US Naval Research Laboratory*; Atul Gupta, Hank Chen, Fulvio Mazzamuto, Christopher Lamontagne,* Axcelis Technologies	**AS-WeM-13** Multimodal Surface Analysis and Depth Profiling Using Femtosecond Laser Ablation, Ion Sputtering, and Ion Scattering Spectroscopy, ***Paul Mack***, Thermo Fisher Scientific, UK
11:15am	**EM-WeM-14** Processing of SiC Pillar Arrays for Quantum and Photonic Applications, ***Jenifer Hajzus***, *Jose Fonseca, Ignas Lekavicius,* US Naval Research Laboratory*; Samuel Lagasse,* Laboratory for Physical Sciences*; Karl Hobart, Marko Tadjer, Rachael Myers-Ward,* US Naval Research Laboratory	**AS-WeM-14** Velocity-Resolved Snms as a Surface-Analytical Probe of Electronically Driven Sputtering Under Swift-Heavy-Ion Irradiation, ***Lars Breuer***, *Tobias Heckhoff,* University of Duisburg-Essen, Germany*; Frieder Koch,* GSI Helmholtzzentrum fuer Schwerionenforschung, Germany*; Marika Schleberger, Andreas Wucher,* University of Duisburg-Essen, Germany
11:30am	**EM-WeM-15** Structural and Electrical Characterization of He Ion Implanted 4H-SiC, ***Ben Sekely***, *Cory Cress, Jeffery Woodward, Daniel Pennachio, Ignas Lekavicius, Jenifer Hajzus, Rachael Myers-Ward,* U.S. Naval Research Lab	**AS-WeM-15** Experimental Validation of Monte Carlo Transport Simulations for MoS_2 Sputter Deposition, ***Alexander Mings (Graduate Student)***, *Kyle Dorman, Steven Larson, Tomas Babuska, John Curry, David Adams,* Sandia National Laboratories
11:45am	**EM-WeM-16** Impact of ZnO Deposition Method on Post-Illumination Charge Trapping and Recovery in Organic Photodiodes, ***Anna Leonard (Graduate Student)***, *Neha Chaturvedi, Veena Misra,* North Carolina State University	**AS-WeM-16** TOF-SIMS Depth Profiling of Inorganic–Organic Multilayers Using a Hybrid Sputtering Approach, ***Shin-ichi IIDA***, ULVAC-PHI, Japan*; Jacob Schmidt,* Physical Electronics*; Gabriele Di Stadio,* ULVAC-PHI, Italy
12:00pm	**EM-WeM-17** Accelerated Data-Efficient Metasurface Simulation Using Deep Learning and Neural-Adjoint Inverse Design, ***Jack Gude (Graduate Student)***, *Muhammad Ashar Naveed, Yanan (Laura) Wang,* University of Nebraska - Lincoln	**AS-WeM-17** Resolving Chemical Speciation in Complex Nickel-Based Electrocatalysts through Detailed XPS Analysis and Corroborations with ToF-SIMS, ***Emilia McCann (Graduate Student)***, Colorado School of Mines*; Doha M. Sayed,* Los Alamos National Laboratory*; Virginia Larson, Meital Shviro,* National Laboratory of the Rockies*; Luigi Osmieri, Piotr Zelenay,* Los Alamos National Laboratory*; Svitlana Pylypenko,* Colorado School of Mines

[1] **AVS Russell and Sigurd Varian Awardee**

Wednesday Morning, November 11, 2026

	The Future of Temperature Sensing **Room 320 - Session TS-WeM** **The Future of Temperature Sensing II** **Moderators:** **Graham Machin**, NPL, UK, **Stephan Krenek**, PTB, Germany	**Materials and Innovations for Fusion Energy** **Room 321 - Session FUS-WeM** **Fusion Materials, Plasma-Facing Components, and Tritium Engineering** **Moderators: Dale Hitchcock**, Savannah River National Lab, **Matthew Sharpe**, The Laboratory for Laser Energetics, The University of Rochester
8:00am	**INVITED: TS-WeM-1** Utilizing the SI Redefinition and "NIST on a Chip" to Ensure Readiness Across the United States Air Force, Army, and Navy, ***Jeremy Latsko***, United States Air Force Metrology and Calibration	**FUS-WeM-1** Water Detritiation: From ML-Guided Selection to Catalyst Synthesis, ***Rashad Ahmadov (Graduate Student)***, *Zachary Robinson, Mark Wittman, Matthew Sharpe,* Laboratory for Laser Energetics
8:15am		**FUS-WeM-2** Al Intercalation Into C-Vacancy Sites in TiCx for Low-Temperature Synthesis of MAX-Phase Ti_2AlC Hydrogen Permeation Barrier Coatings, ***Isabella Stepanek (Graduate Student)***, Georgia Institute of Technology; *Dale Hitchcock,* Savannah River National Lab; *Eric Vogel,* Georgia Institute of Technology
8:30am	**TS-WeM-3** Air Force Temperature Metrology and Photonic Thermometer Applications, ***Kaleb Reed***, Air Force Research Lab	**FUS-WeM-3** Characterizing Heavy Water Displacement in Molecular Sieve Drying Beds for Practical Trace Tritium Capture Methods, ***Brandon Massett***, *Walter Shmayda,* Tritium Solutions Inc.
8:45am	**TS-WeM-4** The Standard Photonic Thermometer (SPoT) program at NIST, *Pavan Challa, Michal Chojnacky, Kevin Douglass, Thinh Bui, Klaus Quelhas, Daniel Barker, Nazanin Hoghooghi, Franklyn Quinlan,* ***Nikolai Klimov***, National Institute of Standards and Technology (NIST)	**FUS-WeM-4** Characterizing the Behavior of Hydrogen Isotopes and Impurity Species on Vanadium Surfaces by Direct Recoil Spectroscopy, ***Feng-Jen Chang***, *Antonio Cruz, Mary Alice Cusentino, Robert Kolasinski,* Sandia National Laboratories
9:00am	**TS-WeM-5** From SPRT Comparison to SI-traceable Photonic Thermometry with SPoT, ***Michal Chojnacky***, *Pavan Challa, Kevin Douglass, Thinh Bui, Klaus Quelhas, Frank Quinlan, Alessandro Restelli, Nikolai Klimov,* National Institute of Standards and Technology (NIST)	**INVITED: FUS-WeM-5** Theoretical and Experimental Study of Hydrogen Super-Permeation in Iron, ***Masashi Shimada***, *Thomas F. Fuerst,* Idaho National Laboratory
9:15am	**TS-WeM-6** Optical Frequency Comb Metrology for Assessing the Ultimate Stability of SPoT in a Water Triple-point (WTP) Cell, *Thinh Bui,* *Pavan Challa, Michal Chojnacky,* ***Kevin Douglass***, *Nikolai Klimov,* NIST-Gaithersburg	
9:30am	**TS-WeM-7** Dual Mode-Locked Comb Readout Method for Chip-Scale Silicon Photonic Thermometer, *Nazanin Hoghooghi,* NIST-Boulder; *Pavan Challa,* ***Nikolai Klimov***, NIST-Gaithersburg	**INVITED: FUS-WeM-7** Development of Tungsten Alloys to Mitigate Impacts of Neutron Irradition on Tritium Inventory, ***Yuji Hatano***, *Qicong Chen, Yuga Kimura, Naoko Oono, Katsuya Suzuki,* Tohoku University, Japan; *Tatsuya Kuwabara,* Aichi Institute of Technology, Japan; *Koji Inoue,* Tohoku University, Japan; *Jing Wang,* Hefei University of Technology, China
9:45am	**TS-WeM-8** Developing Portable Tools for Photonic Thermometry, ***Kevin Douglass***, NIST-Gaithersburg; *Michal Chojnacky, CH. S. S. Pavan Kumar, Thinh Q Bui, Nikolai Klimov,* NIST	
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**	**BREAK - Complimentary Coffee in Exhibit Hall**
11:00am	**INVITED: TS-WeM-13** A Lighter Footprint: The Evolution of Ring-Resonator Thermometer Design at NRC, ***Sergey Dedyulin***, *Siegfried Janz, Dan-Xia Xu, Ross Cheriton, Shurui Wang, Martin Vachon, John Weber,* National Research Council Canada	**FUS-WeM-13** Liquid Metals as Plasma-Facing Components in Fusion Devices: Can They Solve the Power Handling Challenge? , ***Martin Nieto-Perez***, *Calixto Alvarado,* Pennsylvania State University; *Daniel Andruczyk,* University of Illinois at Urbana-Champaign; *Lane Carasik,* Virginia Commonwealth University; *Ama Dahanayakle,* Pennsylvania State University; *Bruce Koel,* Princeton University; *Mike Kotschenreuther,* Exofusion; *Rajesh Maingi,* Princeton Plasma Physics Laboratory; *David Ruzic,* University of Illinois at Urbana-Champaign; *Sergei Smolentsev,* Oak Ridge National Laboratory; *Vlad Soukhanovskii,* Lawrence Livermore National Laboratory; *Xing Wang,* Pennsylvania State University; *Kevin Woller,* Massachusetts Institute of Technology
		FUS-WeM-14 Atomic Layer Deposition Affecting Gas Retention in Fusion Targets, ***Mark Bonino***, *Zachary Robinson, Thomas Cochran, Ethan Burnham-Fay, Arnold Schwemmlein, Dayna Wasilewski,* University of Rochester
11:30am	**TS-WeM-15** Chip-Based Photonic Thermometers: In-Situ Calibration and Si Traceability, ***David Pabst (Graduate Student)***, *Daniel Schmid, René Eisermann, Bruno Rohloff, Stephan Krenek,* Physikalisch-Technische Bundesanstalt (PTB), Germany	**FUS-WeM-15** Measurement of Residual Impurities after a Cryogenic DT Inertial Confinement Fusion (ICF) Implosion, ***Errol Alden (Graduate Student)***, *Zak Robinson, Matt Sharpe,* University of Rochester
11:45am	**TS-WeM-16** Band-Edge Optical Microthermometers for Ultrahigh-Resolution Temperature Sensing, ***Alex Shoghi Tekmedash (Graduate Student)***, *Amin Reihani,* Rutgers University	**FUS-WeM-16** FORGED-PFC High Heat Flux Facility Vacuum Vessel Design Status, ***Jared Tippens***, *Ezekial Unterberg,* Oak Ridge National Laboratory
12:00pm	**TS-WeM-17** Quantitative Temperature Mapping with Nanometric Resolution, *Rituparna Mohanty,* ***Amin Reihani***, Mechanical and Aerospace Engineering, Rutgers University	**FUS-WeM-17** Materials and Deposition Technologies Underlying Target Fabrication for Inertial Confinement Fusion, ***Salmaan Baxamusa***, *Sean Hayes, Liam Sohngen, Juergen Biener,* Lawrence Livermore National Laboratory; *Christoph Wild, Tobias Fehrenbach,* Diamond Materials GMBH, Germany; *Casey Kong, Mark Ratledge, Anthony Allen,* General Atomics; *Corie Horwood, Parminderdeep Singh, Alec Schwartz,* Lawrence Livermore National Laboratory; *Loosineh Aghaian,* General Atomics; *Bernard Kozioziemski, Laura Kegelmeyer, Gabrielle Hamza,* Lawrence Livermore National Laboratory; *Nancy Spafford,* Lawrence Livermore National Lab

Room 303

2:15pm	**EM-WeA-1** High-Temperature Stability of Contacts to β-Ga2O3, ***Donivan Mouck (Graduate Student)***, ARL/PSU; *Paul Kelemen, Sohyun Lee, Nathan S. Banner, Chan-Wen Chiu, Suzanne E. Mohney,* Pennsylvania State University; *Luke A. M. Lyle,* ARL/PSU	**Electronic Materials and Photonics** **Session EM-WeA** **Wide Bandgap Materials and Devices** **Moderators:** **Daniel Pennachio**, Naval Research Laboratory, **Haozhe "Harry" Wang**, Duke University
2:30pm	**EM-WeA-2** Franz-Keldysh Effect in Al-rich AlGaN, ***Yashas Satapathy (Graduate Student)***, North Carolina State University; *Pramod Reddy, Will Mecouch, Ronny Kirste, Seiji Mita,* Adroit Materials; *Zlatko Sitar, Ramon Collazo, Spyridon Pavlidis,* North Carolina State University	
2:45pm	**EM-WeA-3** Controlled Growth and Automated Thickness Estimation of Wide-Bandgap Perovskites, ***Shadmani Shamim (Graduate Student)***, *Sanchaya Pandit, Jack Gude,* University of Nebraska-Lincoln, USA; *Catherine Puckett,* Dickinson College; *Yanan (Laura) Wang,* University of Nebraska-Lincoln, USA	
3:00pm	**EM-WeA-4** Stabilizing the Bright Charge State of Silicon Vacancy in 4H-SiC using Phosphorus Dopant, ***Suryakanti Debata***, Laboratory for Physical Sciences; *Sai Krishna Narayanan,* University of Maryland College Park; *Pratibha Dev,* Laboratory for Physical Sciences	
3:15pm	**EM-WeA-5** Optimization of Silicon Oxynitride Buffer Layers for Highly Textured Sputtered Aluminum Nitride Films on SiO_2, ***Spencer Gellerup***, *Kyle Kelley,* Oak Ridge National Laboratory; *Zhaosen Qu,* John Hopkins University; *Matthew Brahlek, Bogdan Dryzhakov,* Oak Ridge National Laboratory	
3:30pm	**EM-WeA-6** Growth and Characterization of Highly c Axis-Oriented Aln Thin Films on Diamond (001) via RF Magnetron Sputtering, *Raman Devi, Aman Malasi, Ananya Choudhary,* ***Ramesh Chandra***, Indian Institute of Technology Roorkee, India	
3:45pm	**BREAK**	
4:15pm	**SE-WeA-9** ASSD Student Award Finalist Presentation: In-Situ Tribo-Sintering and Atomic Structure of 2D Silicate Interfacial Films derived from Sustainable Oleogels, ***Mohammad Eskandari (Graduate Student)***[1], *Diana Berman, Ali Zayaan Macknojia,* University of North Texas	**Advanced Surface Engineering** **Session SE-WeA** **Advanced Surface Engineering II** **Moderators:** **Diana Berman**, University of North Texas, **Jyh-Wei Lee**, Ming Chi University of Technology, Taiwan
4:30pm	**SE-WeA-10** Development and Characterization of $BaTiO_3$–GO reinforced PEEK Nanocomposites for High Temperature Functional Applications, ***Unnati Joshi***, *Anand Joshi, Sushila Vadu,* Parul University, India	
4:45pm	**SE-WeA-11** Mechanochemically-Driven Formation of Zero-Friction and Zero-Wear Lubricating Carbon Films, ***Diana Berman***, University of North Texas	

[1] **ASSD Student Award Finalist**

Wednesday Afternoon, November 11, 2026

	2D Materials **Room 304 - Session 2D-WeA** **Surface-Sensitive Techniques for 2D Materials Characterization** **Moderators: Qiong Ma**, Boston College, **Chris Jozwiak**, Advanced Light Source, Lawrence Berkeley National Laboratory	**Surface Science** **Room 305 - Session SS-WeA** **Somorjai** **Moderators: David Castner**, University of Washington, **Jeong Park**, Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea
2:15pm 2:30pm	**INVITED: 2D-WeA-1** Exploring and Manipulating Charge Density Textures in Tas2 with NanoARPES, ***Chris Jozwiak,*** Advanced Light Source, Lawrence Berkeley National Laboratory	
2:45pm	**2D-WeA-3** Visualization of Tunable Electronic Structure of Monolayer $TaIrTe_4$, ***Sandy Adhitia Ekahana,*** *Aalok Tiwari,* Carnegie Mellon University*; Souvik Sasmal,* Argonne National Laboratory*; Zefeng Cai, I-Hsuan Kao, Ravi Kumar Bandapelli,* Carnegie Mellon University*; Jian Tang,* Boston College*; Chenbo Min,* Carnegie Mellon University*; Tiema Qian,* UCLA*; Kenji Watanabe, Takashi Taniguchi,* NIMS (National Institute for Materials Science), Japan*; Ni Ni,* UCLA*; Qiong Ma,* Boston College*; Chris Jozwiak, Eli Rotenberg, Aaron Bostwick,* ALS-LBNL*; Simranjeet Singh, Noa Marom, Jyoti Katoch,* Carnegie Mellon University	**SS-WeA-3** Professor Somorjai's Impact on my Journey from Single Crystals to Biomaterials, ***David Castner,*** Depts of Bioengineering & Chemical Engineering
3:00pm	**2D-WeA-4** Substrate Driven Electronic Reconstruction in Bilayer Graphene, ***Aalok Tiwari (Graduate Student),*** Carnegie Mellon University, USA, India*; Sandy Adhitia Ekahana, Souvik Sasmal,* Carnegie Mellon University, USA*; Liangtao Peng,* Washington University, St. Louis*; Pratik Saud,* Carnegie Mellon University, USA*; Syeda Faiza Rubab Sherazi,* University of Central Florida*; Ravi Kumar Bandapelli,* Carnegie Mellon University*; Duy Le,* University of Central Florida*; Rahul Rao,* Air Force Research Laboratory, Materials and Manufacturing Directorate, USA*; I-Hsuan Kao,* Carnegie Mellon University, USA*; Chris Jozwiak, Eli Rotenberg, Aaron Bostwick,* Advanced Light Source, Lawrence Berkeley National Laboratory*; Talat S Rahman,* University of Central Florida*; Simranjeet Singh,* Carnegie Mellon University, USA*; Shaffique Adam,* Washington University, St. Louis*; Jyoti Katoch,* Carnegie Mellon University, USA	**SS-WeA-4** Surface Chemistry at the Sliding, Solid-Solid Interface, ***Wilfred Tysoe,*** University of Wiscosin-Milwaukee
3:15pm	**2D-WeA-5** Interpreting Strain in X-Ray Photoelectron Spectroscopy Measurements of Two-Dimensional Materials, ***Muhidul Chaman (Graduate Student),*** *Nargol Jalali, Michelle Becerra, Joy Roy, Joslin Prasanna,* The University of Texas at Dallas*; Paul Bagus,* The University of North Texas*; Rafik Addou, Cormac Toher, Kevin Brenner,* The University of Texas at Dallas	**SS-WeA-5** Elucidating Rh{111} Ensemble Requirements in Reverse Water-Gas Shift From Surface Science, *Simon R Bare,* SLAC National Accelerator Laboratory*;* ***Greg Barber,*** Penn State University*; Xiaobo Chen, Judith Yang,* Brookhaven National Laboratory*; Robert Rioux,* Penn State University
3:30pm	**2D-WeA-6** Electrical-XPS: A Novel Research Tool for Organic and Biological Materials, ***Hagai Cohen,*** The Weizmann Institute, Israel	**SS-WeA-6** Origins of Lipid Asymmetry in Supported Biomembranes, ***Paul Cremer,*** *Ruofei Wang, Ella Gregory,* Penn State University
3:45pm	**BREAK**	**BREAK**
4:15pm 4:30pm	**INVITED: 2D-WeA-9** Scanning Probe Microscopy of Engineered Bound States on Semiconductor Surfaces, ***Victor Brar,*** University of Wisconsin - Madison	**INVITED: SS-WeA-9** Behavior of Cu-Pt Single-Atom Alloy Catalysts Under Realistic Conditions, ***Francisco Zaera,*** Dept. Chemistry
4:45pm	**2D-WeA-11** Interplay of Silver-Mean Quasiperiodicity and Weyl Semimetallicity in WTe_2, ***Daejin Eom,*** *So-Dam Sohn, Ja-Yong Koo, Chang-Youn Moon,* Korea Research Instutue of Standards and Science (KRISS), Republic of Korea	**SS-WeA-11** Plasmonic Hot Carrier-Driven Catalytic and Photoelectrochemical Processes, ***Jeong Y. Park,*** Department of Chemistry, Republic of Korea
5:00pm	**2D-WeA-12** Emergent Superparamagnetism in TiS_2 Induced by Atomic-Scale Defects, *Thomas Pekarek, Patrick Keeney, Kyle Taylor, Cole Ratkus, Jason Haraldsen,* ***Paula Mariel Coelho,*** University of North Florida	**SS-WeA-12** 2D Ising Model for Enantiomer Adsorption on Achiral Surfaces: L- and D-Aspartic Acid on Cu(111), ***Andrew Gellman,*** Carnegie Mellon University, USA

Room 315

2:15pm	**INVITED: PS1-WeA-1** Machine Learning-Assisted Plasma Process Monitoring and Optimization, ***Fatima Jenina Arellano***, *Kenta Doi, Fumito Ootake, Tadamasa Kobayashi, Kenta Tanino, Tzuan Chou, Yutaka Nishioka, Kouta Kawahara, Hanna Taku,* ULVAC, Inc., Japan	**Plasma Science and Technology** **Session PS1-WeA** **Machine Learning for Plasma Processes** **Moderator:** **Joseph Vella**, TEL
2:30pm		
2:45pm	**PS1-WeA-3** Autonomous Determination of Plasma Reaction Rates Using Plasma-Physics-Informed Machine Learning, ***Yusuke Ando (Graduate Student)***[1], *Takayoshi Tsutsumi, Kenichi Inoue, Kenji Ishikawa,* Nagoya University, Japan	
3:00pm	**PS1-WeA-4** Joint Geometry and Process Design of Argon Capacitively Coupled Plasmas with a Full-Field Machine-Learning Surrogate, ***Abetharan Antony***, Zenithon Ai, UK	
3:15pm	**INVITED: PS1-WeA-5** Machine Learning Applications and Challenges in Low Temperature Plasma Systems, ***Kallol Bera***, Applied Materials, Inc.*; Abhishek Verma,* Applied Materials Inc.*; Sathya Ganta, Shahid Rauf,* Applied Materials, Inc.	
3:30pm		
3:45pm	**BREAK**	
4:15pm	**PS2-WeA-9** Impact of Low-GWP GST Etch Chemistries on PCM Device Performance and Reliability, ***Luxherta Buzi***, IBM Research*; Yohei Takakura, Kazunori Horiguchi,* DAIKIN INDUSTRIES, LTD.*; Aya Kagimura,* DAIKIN INDUSTRIES, LTD., Japan*; Asit Ray, Amlan Majumdar, Lynne M. Gignac, Matthew BrightSky, Jaylynn Sheppard,* IBM Research*; Yasuhiro Nojiri, Hisataka Hayashi,* DAIKIN INDUSTRIES, LTD., Japan*; Eric Joseph, Robert L Bruce,* IBM Research	**Plasma Science and Technology** **Session PS2-WeA** **Low Global Warming Potential and Sustainability in Plasma Processing** **Moderators:** **Hisataka Hayashi**, Daikin Industries, Ltd., Japan, **Phong Nguyen**, Air Liquide
4:30pm	**PS2-WeA-10** A Low-GWP Molecule for High-Performance Plasma Etching, ***Phong Nguyen***, *Nathan Stafford, Xiangyu Guo,* Air Liquide	
4:45pm	**PS2-WeA-11** Machine-Learning-Assisted Investigation of CF_3–X (X=H, I) Plasma Kinetics In Semiconductor Manufacturing for Etch Effectiveness and Environmental Sustainability, ***Chi-Yun Lin (Graduate Student)***, UCLA*; Junpin Yao, Mansour Moinpour, James Nehlsen,* EMD Group*; Elizaveta Kossoy,* Merck Group*; James Hie,* EMD Group*; Aditya Nandy, Jane Chang,* UCLA	
5:00pm	**PS2-WeA-12** A Low GWP and Low Emission Gas for Trench and Hole SiO_2 Etching, ***Scott Biltek***, *Nathan Stafford, Phong Nguyen, Angéla Christin,* Air Liquide	

[1] **PSTD Coburn & Winters Student Award Finalist**

Wednesday Afternoon, November 11, 2026

	Atomic Scale Processing Mini-Symposium **Room 316 - Session AP+2D+EL+EM+PS+TF-WeA** **Atomic Scale Processing to Enable 2D Materials** **Moderators: Cristina Satriano**, University of Catania, Italy	**Thin Films** **Room 317 - Session TF-WeA** **Far from Equilibrium Thin Films and Processes** **Moderators: Saeed Almishal**, Pennsylvania State University, **Lauren Garten**, Georgia Institute of Technology
2:15pm	**INVITED: AP+2D+EL+EM+PS+TF-WeA-1** Chemistry (and Some Physics) of Atomic Layer Deposition of Two-Dimensional Metal Dichalcogenides, ***Miika Mattinen,*** Aalto University, Finland	**INVITED: TF-WeA-1** Frustration and Function in Single Crystal Compositionally Complex Oxides, ***Zac Ward,*** Oak Ridge National Laboratory
2:30pm		
2:45pm	**AP+2D+EL+EM+PS+TF-WeA-3** First-Principles Survey of Molybdenum ALD Precursors for MoS_2 Thin Films, ***Ian Kerby (Graduate Student)****, Ashlee Riedinger, Lan Li,* Boise State University	**INVITED: TF-WeA-3** Designing Altermagnetism and Topological States in Ultrathin Multiferroic $BiFeO_3$, ***Lucas Caretta,*** Brown University
3:00pm	**AP+2D+EL+EM+PS+TF-WeA-4** Thermal and Plasma-Enhanced ALD of MoS_2 using $MoO_2(THD)_2$, ***Ryan Weiland (Graduate Student)****,* University of Michigan, Ann Arbor*; Ian Campbell,* IMEC*; Pierre Morin, Benjamin Groven,* IMEC Belgium*; Ageeth Bol,* University of Michigan, Ann Arbor	
3:15pm	**INVITED: AP+2D+EL+EM+PS+TF-WeA-5** Low Temperature Magnetized Plasmas for Processing of Two-Dimensional Materials, ***Yevgeny Raitses,*** Princeton Plasma Physics Laboratory*; Stanislav Musikhin, Yerbolat Ussenov,* Princeton University Plasma Physics Lab*; Satya Butler, Saien Xie,* Princeton University*; Nirbhav Chopra,* Princeton University Plasma Physics Lab	**TF-WeA-5** Chemical Disorder in Improper Ferroelectrics, ***Billy Yang (Graduate Student)****, Jeffrey Hodgson, David Sanchez, Sai Venkata Gayathri Ayyagari, Saeed S. I. Almishal, Nasim Alem, Jon-Paul Maria,* The Pennsylvania State University
3:30pm		**TF-WeA-6** Magnetic Exchange Bias Control in Kinetically-Arrested High-Entropy Oxide Heterostructures, ***Joseph Petruska (Graduate Student)****,* The Pennsylvania State University*; Timothy Charlton,* Oak Ridge National Laboratory*; John Heron,* University of Michigan*; Jon-Paul Maria, Saeed Almishal,* The Pennsylvania State University
3:45pm	**BREAK**	**BREAK**
4:15pm	**AP+2D+EL+EM+PS+TF-WeA-9** Impact of Fluorination and Oxygenation Sources on the Thermal Atomic Layer Etching of Crystalline MoS_2, ***Spencer Smith (Graduate Student)****, Steven M. Hues, Elton Graugnard,* Boise State University	**INVITED: TF-WeA-9** Probing Disorder and Metastability in Complex Oxide Thin Films with X-ray Absorption Spectroscopy, ***Christina Rost,*** Virginia Tech
4:30pm	**AP+2D+EL+EM+PS+TF-WeA-10** Atomic Layer Etching of Tungsten Disulfide in O2/Ar and BCl3/Ar Remote Plasmas, ***Jeremy J. Mettler,*** University of Houston*; Jaehong (Russell) Kwon, David. B. Graves,* Princeton University*; Vincent M. Donnelly,* University of Houston	
4:45pm	**AP+2D+EL+EM+PS+TF-WeA-11** Investigation of Layer-by-Layer Etching of MoS_2 by Atomic Oxygen and XeF_2, ***Sei-won Chung****, Daniel Cho, Jane Chang,* University of California, Los Angeles	**TF-WeA-11** Epitaxial Strain Engineering of Correlated Electronic States and Crystal Structure in Thin Film Nickelates, ***Abigail Jiang (Graduate Student)***[1], Harvard University*; Maria Bambrick-Santoyo,* Massachusetts Institute of Technology*; Lopa Bhatt,* Cornell University*; Kyeong-Yoon Baek,* Harvard University*; Yi-Feng Zhao,* Arizona State University*; Dan Ferenc Segedin, Ari Turkiewicz, Jenna Hatmin, Grace Pan,* Harvard University*; Suchismita Sarker,* Cornell University*; Donald Walko,* Argonne National Lab*; Charles Brooks,* Harvard University*; Berit Goodge,* Max Planck Institute for Chemical Physics of Solids, Germany*; David Muller,* Cornell University*; Hua Zhou,* Argonne National Lab*; Antia Botana,* Arizona State University*; Julia Mundy,* Harvard University
5:00pm	**AP+2D+EL+EM+PS+TF-WeA-12** Width Reduction and Edge Smoothing of 2D MoS_2 Nanoribbons by Lateral Thermal Atomic Layer Etching, ***Janine Wyand (Graduate Student)***[2], University of Colorado at Boulder*; Tara Pena, Eric Pop,* Stanford University*; Steven George,* University of Colorado at Boulder	**TF-WeA-12** Optimizing Interfaces in High Entropy Carbides for Ultra High Hardness, ***Nestor Marquez Rios (Graduate Student)****, Tainara de Carvalho, Jon-Paul Maria,* The Pennsylvania State University

[1] **AVS Dorothy M. and Earl S. Hoffman Scholarship Recipient**

[2] **TFD James Harper Award Finalist**

Room 318

2:15pm	**INVITED: AM1+EM+TF-WeA-1** Memory Centric AI and the Role of Advanced Materials in Future Semiconductor Technologies, ***Shivani Srivastava,*** Micron Technology	**Advanced Microelectronic Materials and Devices Mini-Symposium** **Session AM1+EM+TF-WeA** **Industry Perspective** **Moderators:** **Robert Grubbs**, IMEC Belgium, **Sarah Lynch**, TEL Technology Center, America, LLC, USA
2:30pm		
2:45pm	**AM1+EM+TF-WeA-3** Epitaxial CVD Ruthenium for High-Performance Interconnects at A7 and Beyond, ***Gyana Pattanaik,*** Tokyo Electron America; *Jean-Philippe Soulié, Christoph Adelmann, Nicolas Jourdan,* IMEC, Leuven, Belgium; *Kai-Hung Yu,* Tokyo Electron America R&D; *Tadahiro Ishizaka,* Tokyo Electron Technology Solutions (TTS), Belgium; *Hidenao Suzuki, Cory Wajda,* Tokyo Electron America R&D	
3:00pm		
3:15pm		
3:30pm		**Advanced Microelectronic Materials and Devices Mini-Symposium** **Session AM2+EM+TF-WeA** **Devices I** **Moderators: Elton Graugnard**, Boise State University, **Philip Lee**, University of Kentucky
3:45pm	**BREAK**	
4:15pm	**AM2+EM+TF-WeA-9** Epitaxial β-Ga_2O_3 Thin Films on Mica Integrated with Copper Heat-Dissipating Electrodes for High-Power Devices, ***Ping-Hsien Wu (Graduate Student),*** *Ying-Hao Chu,* National Tsing Hua University, Taiwan	
4:30pm	**AM2+EM+TF-WeA-10** Ultra-Thin Nickel Films for 4Hh-SiC Schottky Barrier Diode, ***Renato Beraldo,*** *R.R. Cesar, M. Mederos,* University of Campinas (UNICAMP), Brazil; *T.E.A. Santos,* Center for Information Technology Renato Archer, Brazil; *S. Mohanta,* Central University of Jharkhand, India; *R.A. Minamisawa,* University of Applied Arts Northwestern Switzerland; *M.V. Puydinger dos Santos,* University of Applied Science and Arts Northwestern Switzerland; *J.A. Diniz,* University of Campinas (UNICAMP), Brazil	
4:45pm	**AM2+EM+TF-WeA-11** GaN Nanoscale Vacuum-Channel Transistors, ***Huu Nguyen,*** *George Wang, Keshab Sapkota,* Sandia National Laboratories	
5:00pm	**AM2+EM+TF-WeA-12** Atomic Layer Etching of Yttrium Orthovanadate Using Sequential Exposures of H_2 and SF_6/Ar Plasma, ***Mariya Ezzy (Graduate Student),*** *Emanuel Green, Will Pajak, Andrei Faraon,* California Institute of Technology; *Joonhee Choi,* Standford University; *Austin Minnich,* California Institute of Technology	

Wednesday Afternoon, November 11, 2026

	Applied Surface Science **Room 319 - Session AS-WeA** **ToF SIMS in Applied Surface Science** **Moderators: Jean-Paul Barnes**, CEA-LETI, France, **Tanguy Terlier**, Rice University	**The Future of Temperature Sensing** **Room 320 - Session TS-WeA** **The Future of Temperature Sensing III** **Moderators: Olga Kozlova**, LNE-CNAM, France, **Nikolai Klimov**, National Institute of Standards and Technology
2:15pm	**INVITED: AS-WeA-1** Enhancing Industrial Problem Solving with ToF-SIMS, ***David Carr,*** *Stacy Hanson,* 3M	**INVITED: TS-WeA-1** Enabling New Measurement Capabilities with Fiber-Optic Thermometry, ***Stephan Krenek,*** *René Eisermann,* Physikalisch-Technische Bundesanstalt (PTB), Germany*; Guillaume Failleau,* Laboratoire National de métrologie et d'Essais (LNE), France*; Xin Lu,* Bundesanstalt für Materialforschung und -prüfung (BAM), Germany*; Peter Thomas,* Norwegian Research Centre AS (NORCE), Norway*; Henrik Kjeldsen,* Danish Technological Institute (DTI), Denmark
2:30pm		
2:45pm	**AS-WeA-3** Capabilities and Challenges of Dual-Beam Depth Profiling at Ultra-Low Sputter Energies*, Derk Rading, Julia Zakel,* ***Thomas Grehl****, Philipp Brüner, Wolfgang Paul, Ewald Niehuis,* IONTOF GmbH, Germany	**TS-WeA-3** Distributed Fiber-Optic Thermometry for High-Fidelity Temperature Metrology in Harsh and Thermally Heterogeneous Environments*, KOUSTAV DEY, Grant Whitham,* ***Laura Bartlett****, Rony Kumer Saha, Farhan Mumtaz, Ronald J. O'Malley, Jeffrey D. Smith, Rex E. Gerald II, Jie Huang,* Missouri S&T
3:00pm	**AS-WeA-4** Ultraviolet Picosecond Laser Ablation of Agar Films Evaluated by SEM and ToF-SIMS*,* ***Anna Karagiannakis (Graduate Student)****,* University of Illinois at Chicago*; Anton V. Ievlev, Gabriel D. Parker,* Oak Ridge National Laboratory*; Mehak Verma, Reyhane Shavandi, Luke Hanley,* University of Illinois at Chicago	**TS-WeA-4** Toward SI-Traceable Photonic Thermometry using Dual-Comb Spectroscopy*, Peter Chang,* ***Nathan Brooks****, Tsung-Han Wu,* Chi3 Optics
3:15pm	**AS-WeA-5** 3D Characterization of High-Aspect-Ratio Trench Using SIMS*,* ***Dimitry Kouzminov****, Vikram Bhosle, James Cournoyer, David Barrett, Cuiyang Wang,* Applied Materials Inc.	**TS-WeA-5** A Practical Approach to Johnson Noise Thermometry*, Robert Crabtree,* Isothermal technology Ltd, UK*;* ***Carl Baines****,* Isothermal Technology Ltd, UK
3:30pm	**AS-WeA-6** In-situ Gas Cluster Ion Beam Cryo-Sectioning to Enable Subcellular Cryo-ToF-SIMS Imaging*, Claire Seydoux,* Univ. Grenoble Alpes, CEA, IRIG-MEM, Current address: ESRF – The European synchrotron, France*; Bérangère Moreau,* Univ. Grenoble Alpes, CEA, IRIG, MEM, France*; Michel Boujard,* Univ. Grenoble Alpes, CEA, Grenoble INP, IRIG-Pheliqs, France*; Eric Gauthier,* Univ. Grenoble Alpes, CEA, Grenoble INP,IRIG-Spintec, France*; Pierre-Henri Jouneau,* Univ. Grenoble Alpes, CEA, IRIG-MEM, France*;* ***Jean-Paul Barnes****,* Univ. Grenoble Alpes, CEA, Leti, France	**TS-WeA-6** Validated Dissemination: What Makes a Primary-Standard Bridge Trustworthy in a Post-Redefinition Traceability Chain*,* ***Abhishek Sengupta****,* WIKA Group, UK
3:45pm	**BREAK**	**BREAK**
4:15pm	**AS-WeA-9** Advancing TOF-SIMS Workflows for Automated Mineral Grain Identification in Complex Samples*,* ***Amy Ferryman****,* Physical Electronics*; Siddhartha Ghosh,* Physical Electronics USA*; Susana Brito e Abreu,* University of Queensland, Australia	**TS-WeA-9** Fiber Optic Phosphor-Based Temperature Sensors: Can It Replace Industrial Platinum Resistance Thermometers (IPRTs)?*,* ***Noah J.J. Johnson****, Michael Goldstein****,*** Accelovant Technologies Corporation, Canada
4:30pm	**AS-WeA-10** Rapid Large-Area Mapping of Rare Earth Elements and Mineral Phases in Geological Samples Using ToF-SIMS*,* ***Zihua Zhu****, Xin Zhang, Xiaoxu Li, Yifu Feng, Vaithiyalingam Shutthanandan, Odeta Qafoku,* Pacific Northwest National Laboratory	**TS-WeA-10** Industry Panel Discussion - Scaling Up Temperature Innovation: Challenges, Opportunities, and Global Adoption -- Panelists: Isotech, WIKA, Fluke, Chi3 Optics, U.S. Air Force
4:45pm	**AS-WeA-11** Determination of Relative Sensitivity Factors for Mg, Co, B, Be, K, and Si in Various Oxide Matrices Using Quadrupole SIMS.*,* ***M. K. Indika Senevirathna****,* Clark Atlanta University*; Jacob Steele, Seungmin Lee, Anna Park, Kathy Azizie,* Cornell University*; Michael D Williams,* Clark Atlanta University*; Darrell Schlom,* Cornell University, Kavli Institute at Cornell for Nanoscale Science, Leibniz-Institut für Kristallzüchtung	
5:00pm	**AS-WeA-12** In-situ thermal analysis of Pyrolyzed Polyacrylonitrile Film using operando ToF-SIMS*,* ***Tanguy Terlier****,* Rice University, Department of Chemical & Biomolecular Engineering, Shared Equipment Authority*; Khalid Alkandery, Sibani Lisa Biswal,* Rice University, Department of Chemical & Biomolecular Engineering	

Room 321

2:15pm 2:30pm	**INVITED: FUS-WeA-1** MAX Phase Materials for Hydrogen Permeation Barriers, ***Eric Vogel****, Moses Nnaji,* Georgia Institute of Technology*; Dale Hitchcock,* Savannah River National Lab	**Materials and Innovations for Fusion Energy** **Session FUS-WeA** **Materials for Fusion Fuel Containment** **Moderators:** **Eric Dombrowski**, Commonwealth Fusion Systems, **Matthew Sharpe**, The Laboratory for Laser Energetics, The University of Rochester
2:45pm	**FUS-WeA-3** Atomic Layer Deposition on Novel Fusion-Relevant Substrates, ***Zachary Robinson****,* The Laboratory for Laser Energetics, The University of Rochester*; Soren Bentley,* UKAEA, UK*; Jeffrey Woodward,* NRL*; Alexander Kozen,* University of Vermont*; Thomas Cochran, Rashad Ahmadov, Joshua Ruby, Mark Wittman, Matthew Sharpe,* The Laboratory for Laser Energetics, The University of Rochester	
3:00pm	**FUS-WeA-4** Passivation of Stainless Steel for Tritium Service, ***Dale Hitchcock****,* Savannah River National Lab	
3:15pm	**FUS-WeA-5** Measurement of Hydrogen Isotopologues and Contaminant Species Within a Canister Coated with Alumina by Atomic Layer Deposition, ***Matthew Sharpe****, Thomas Cochran, Zachary Robinson,* University of Rochester	
3:30pm	**FUS-WeA-6** Native Protium Content in Stainless Steel Pipework, ***James Pittard****, Kyle Shipman, Zhiheng Wu, Tshepo Mahafa, Rosemary Brown, Gowri Karajgikar, Iryna Bennett, Clemence Mont,* UKAEA, UK	
3:45pm	**BREAK**	
4:15pm 4:30pm	**INVITED: VT+FUS-WeA-9** The "Wall" in Fusion Reactors, ***David Ruzic****,* University of Illinois at Urbana-Champaign	**Vacuum Technology** **Session VT+FUS-WeA** **Vacuum Technology Fusion** **Moderators:** **Freek Molkenboer**, TNO Science and Industry, the Netherlands, **Alan van Drie**, TAE Technologies
4:45pm	**VT+FUS-WeA-11** Overview, Construction Status, and Engineering Challenges of the Vacuum Systems for the Material Plasma Exposure eXperiment (MPEX), ***Jonathan Perry****, Aftab Hussain, Adam Aaron, Ted Biewer,* ORNL	
5:00pm	**VT+FUS-WeA-12** Miniaturized, Fully Shielded High-Voltage Vacuum Feedthroughs from 50 kV to 300 kV, ***Moein Borghei****,* Avalanche Energy	

Room 303

8:00am	**AS1+CA+EL-ThM-1** Anisotropic Complex Dielectric Function Response of Mg2SiO4 Single Crystal, ***Emily Amonette,*** University of Toledo*; Darrell Schlom,* Cornell University*; Nikolas Podraza,* University of Toledo	**Applied Surface Science** **Session AS1+CA+EL-ThM** **Emerging Methods for Materials Characterization and Functional Properties** **Moderators:** **Samantha Rosenberg**, Kairos Power, **Xiao-Ying Yu**, Oak Ridge National Laboratory, USA
8:15am	**AS1+CA+EL-ThM-2** Spin-Mediated Magnetochromism in Cr3+:β-Ga2O3: From THz Spectroscopy Ellipsometry to Nonreciprocal Thermal Emission Signatures*,* ***Sina Khayam (Graduate Student),*** University of Nebraska-Lincoln, USA*; Viktor Rindert,* Lund University, Sweden*; Ufuk Kilic,* UNIVERSITY OF NEBRASKA-LINCOLN*; Vanya Darakchieva,* Lund University, Sweden*; Mathias Schubert,* University of Nebraska-Lincoln, USA	
8:30am	**AS1+CA+EL-ThM-3** Near-Infrared to VUV Characterization of a Si-doped α-(AlxGa1-x)2O3 Transistor Structure with a 7 eV Bandgap using General Spectroscopic Ellipsometry*,* ***Preston Sorensen (Graduate Student),*** University of Nebraska - Lincoln*; Jacob Steele, Debaditya Bhattacharya, Kazuki Nomoto, Naomi Pieczulewski,* Cornell University*; Viet-Anh Ha, Nick Pant,* University of Texas at Austin*; Ihit Shukla, Shaon Das,* University of Buffalo*; Ufuk Kilic,* University of Nebraska - Lincoln*; Madhav Ramesh,* Cornell University*; Feliciano Giustino,* University of Texas at Austin*; Baishakhi Mazumder,* University of Buffalo*; Matara Kankanamge Indika Senevirathna, Michael Williams,* Clark Atlanta University*; Mathias Schubert,* University of Nebraska - Lincoln*; David Muller, Huili Xing, Debdeep Jena, Darrell Schlom,* Cornell University	
8:45am	**AS1+CA+EL-ThM-4** XPS Spectrometer Transmission Correction using the Consistent Retardation Assumption*, Neal Fairley,* Casa Software, UK*;* ***Alexander Shard,*** National Physical Laboratory, U.K.*; Pascal Bargiela,* Universite de Pau, France*; Jonas Baltrusaitis,* Lehigh University*; Miklós Németh,* HUN-REN Centre for Energy Research, Hungary*; Shaoliang Guan,* University of Cambridge, UK*; David Morgan,* Cardiff University, UK*; Aurelien Renard,* Universite de Lorraine, France*; Timothy Livingston Large,* Sandia National Laboratories*; Vincent Fernandez,* Universite de Nantes, France*; Yusuf Koçak,* Bilkent University, Turkey*; Huanyong Li,* Jinan University, China*; Anna Kallistova,* University of California*; Robert Hengstebeck,* Pennsylvania State University*; Olivier Heintz,* Ecole Centrale de Lyon - LTDS, France*; Solene Bechu,* Universite de Versailles, France*; Guillame Sauthier,* Catalan Institute of Nanoscience and Nanotechnology, Spain*; Isidoro López,* Universite de Bourgogne, France*; Hannah Levene,* University of Edinburgh, UK*; Ryan Thorpe,* Lehigh University	
9:00am	**AS1+CA+EL-ThM-5** Autonomous ToF-SIMS Studies with AI-Agent Quality Control*,* ***Anton Ievlev,*** Oak Ridge National Laboratory	
9:15am	**AS1+CA+EL-ThM-6** in Situ Molecular Imaging of Ion Clusters Reveals the Acid Gas Capture Capacity and Mechanism of Water-Lean Ionic Liquids*,* ***Xiao-Ying Yu,*** Oak Ridge National Laboratory*; Difan Zhang,* Oak Ridge National Laboratory*; Zihua Zhu,* Pacific Northwest National Laboratory*; Gabriel Parker, Roger Rousseau,* Oak Ridge National Laboratory	
9:30am	**AS1+CA+EL-ThM-7** Co-Adsorption of Acetic Acid with H2O on Anatase TiO2(101), ***Joshua Wagner,*** *Zbynek Novotny, Zdenek Dohnalek,* Pacific Northwest National Laboratory	
9:45am		
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**	
11:00am	**INVITED: AS2-ThM-13** Data-Driven Analysis Using Explainable AI (XAI) for Surface Analysis Data, Including Mass Images*,* ***Satoka Aoyagi,*** Seikei University, Japan	**Applied Surface Science** **Session AS2-ThM** **Complex Data Analysis For Applied Surface Science** **Moderators:** **Jonathan Counsell**, Kratos Analytical Inc, UK, **Jeffrey Terry**, Illinois Institute of Technology
11:15am		
11:30am	**AS2-ThM-15** Data-Driven Automation for X-Ray Photoelectron Spectroscopy (XPS), ***David Valley,*** *James Johns, Jiayue Lin, Jennifer Mann, Kateryna Artyushkova,* Physical Electronics	
11:45am	**AS2-ThM-16** Computational Assessment of Environment-Dependent Mineral Surface Transformations*, Jennifer Bjorklund,* ***Sara E. Mason,*** Center for Functional Nanomaterials, BNL	
12:00pm	**AS2-ThM-17** Surface and Subsurface Chemistry of IrOx Electrocatalysts: A Multi–Technique Approach Integrating ToF–SIMS, XPS, and Multivariate Analysis*,* ***Lonneke van Eijk (Graduate Student),*** Colorado School of Mines, USA*; Genevieve Stelmacovich,* LAM Research*; Michael Walker,* Colorado School of Mines, USA*; Rebecca Hamlyn,* Lawrence Berkeley Lab, USA*; Zhao Li, Xiaoping Wang,* Argonne National Laboratory, USA*; Ethan Crumlin,* Lawrence Berkeley Lab, USA*; Alexey Serov,* Oak Ridge National Laboratory, USA*; Deborah Myers,* Argonne National Laboratory, USA*; Svitlana Pylypenko,* Colorado School of Mines, USA	

Thursday Morning, November 12, 2026

	2D Materials **Room 304 - Session 2D-ThM** **2D Materials Devices and Applications** **Moderators: Raghvendra Posti,** Carnegie Mellon University, **Cristina Satriano**, University of Catania, Italy	**Surface Science** **Room 305 - Session SS-ThM** **Reduced Dimensional Systems** **Moderators: Rachael Farber**, University of Kansas, **Nan Jiang**, University of Illinois - Chicago
8:00am	**2D-ThM-1** Morphology and Adhesion of Carbon Nanowalls Grown via Microwave Surface Wave Plasma on Various Substrates, ***Parker Hays (Graduate Student)***, *Dhruval Patel, Dren Qerimi,* University of Illinois at Urbana-Champaign*; Michael Stowell,* Lyten*; David Ruzic,* University of Illinois at Urbana-Champaign	**INVITED: SS-ThM-1** Large Moiré Potential in a Weakly Interacting Organic/2D Material Heterostructure, ***Oliver Monti***, University of Arizona
8:15am	**2D-ThM-2** Orientation-Independent Strong TERS Response in Anisotropic ReS_2 on Gold, ***Andrey Krayev***, HORIBA Instruments Incorporated*; Pavel Valencia-Acuna, Oliva Primera-Pedrozo, Chih-Feng Wang,* PNNL	
8:30am	**2D-ThM-3** Optical properties of 2D chiral perovskite thin films (R-MPA)2PbI4 and (R-BrPEA)2Pb2I4 from near infrared to Ultraviolet, ***Suresh Chaulagain (Graduate Student)***, The University of Toledo, USA*; Tingting Zhu, Zhaoning Song, Nikolas J. Podraza,* The University of Toledo	**SS-ThM-3** Epitaxial Moiré-Graphene for Resonance Excitonic Energy Transfer in Moiré -Graphene-TMDC Heterostructures, ***Abdullah Al-Mahboob***, *Asish Kundu, Dario Stacchiola, Jerzy T. Sadowski,* Brookhaven National Laboratory
8:45am	**2D-ThM-4** Molecular Dynamics Simulation of Plasma-Surface Interactions for Transition Metal Dichalcogenides, ***Jaehong Kwon (Graduate Student)***, Princeton University, Republic of Korea*; Jeremy Mettler, Vincent Donnelly,* University of Houston*; David Graves,* Princeton University	**SS-ThM-4** Can the Binding Energy of H_2O Admolecules on the Ice Ih(0001) Surface Exceed the Bulk Cohesive Energy?, ***Jörg Meyer***, Leiden University, Netherlands
9:00am	**2D-ThM-5** Operando SEM Study of WS_2 Growth, ***Shaoliang Guan***, *Stephan Hofmann, Jinfeng Yang, Hao Yu,* University of Cambridge, UK	**SS-ThM-5** Templated Growth and Intercalation Pathways of Nickel Nanoclusters on Graphene/Ir(111), ***Shilpa Choyal (Graduate Student)***[1], University of Illinois at Chicago*; Nan Jiang, Michael Trenary,* University of Illinois Chicago
9:15am	**2D-ThM-6** *in-situ* Characterization of Thermal Atomic Layer Deposition Process for Extrinsic P-Type MoS_2 Thin Films, ***Sungjoon Kim***, *Jeffrey Elam,* Argonne National Laboratory	**SS-ThM-6** Probing local structural variations in metal–organic framework thin films using nano-FTIR, ***Tomoko Shimizu***, *Yukihiro Matsumoto, Kento Takenaka,* Keio University, Japan*; Hiromasa Sato,* Institute for Molecular Science, Japan*; Yuto Fujita,* Keio University, Japan*; Toshiki Sugimoto,* Institute for Molecular Science, Japan
9:30am	**2D-ThM-7** Nanostructured TiS_2@TiO_2 Nanotube Arrays Fabricated by Magnetron Sputtering for Efficient Energy Storage, ***Raman Devi***, IIC, Indian institute of technology Roorkee, India*; Ramesh Chandra,* Indian institute of technology Roorkee, India	**SS-ThM-7** Spatially Resolved Understanding of Electronic-Metal Support Interactions on Pristine and Defected Cu/TiO_2(110), ***Lindsey Penland (Graduate Student)***[2], The University of Kansas*; Hirushan Arachchige, Nadith Dissanayake,* The University of Kansas, Sri Lanka*; Rachael Farber,* The University of Kansas
9:45am	**2D-ThM-8** Low-Temperature Deposition and Annealing of NbXW1-XSY Thin Films for Photolithography-Compatible Processing, ***Gia Rivers (Graduate Student)***, University of Michigan, Ann Arbor*; Rebecca A. Dawley,* University of Michigan*; Anil Adhikari, Steven J. Koester,* Notre Dame University*; Ageeth Bol,* University of Michigan, Ann Arbor	
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**	**BREAK - Complimentary Coffee in Exhibit Hall**
11:00am	**2D-ThM-13** Hierarchical Heterostructure of 2D Nicob@Co_3O_4 for Energy Saving Hydrogen Generation, ***Krishna Modi***, *Anand Joshi,* Micro-Nano Research & Development Center, Parul University, India	**INVITED: SS-ThM-13** Structure and Electronic Properties of Two-Dimensional Iron-Based Oxides on Silver, ***Lindsay R. Merte***, Malmö University, Sweden
11:15am	**2D-ThM-14** Hybrid Pd@Graphene Oxide–Magnetite Nanozyme Materials: Design, Properties, and Theranostic Potential, *Davide Patti, Giulia Lacanea, Giuseppe Attinasi, Luisa D'Urso, Giuseppe Forte,* University of Catania, Italy*; Irina Naletova,* National Council of Research, Italy*;* ***Cristina Satriano***, University of Catania, Italy	
11:30am	**2D-ThM-15** Xenon Trapping in Two-Dimensional Silicate Nanocages under Air-Containing Gas Environments, ***Laiba Bilal***, XenCage Technologies	**SS-ThM-15** A Multiscale Framework for Oxygen Adsorption, Surface Reconstruction, and Reactivity on Ag(111), ***Bright Daniel (Graduate Student)***, University of Tennessee Knoxville*; Braden Penuel,* University of Tennessee, Knoxville*; Carson Mize,* Leiden University, Netherlands*; Lonnie Crosby, Sharani Roy,* University of Tennessee Knoxville
11:45am	**2D-ThM-16** Advanced Nanostructured Graphene Devices for Real-Time Environmental and Agricultural Sensing, ***RAPTI GHOSH***, University of Chicago, India	**SS-ThM-16** Atomic-Scale Study of Boron Nanostructure Growth on Platinum, ***Nozomi Shirato***, Argonne National Laboratory
12:00pm		**SS-ThM-17** Differentiable Multivariate Curve Resolution for X-Ray Absorption Spectroscopy, ***Changhae Kim***, *Jennifer Bjorklund, Brian Lee,* Brookhaven National Laboratory*; Esteban Fornero,* Instituto de Desarrollo Tecnológico para la Industria Química, Argentina*; Dario Stacchiola, Xiaohui Qu, Sara E. Mason,* Brookhaven National Laboratory

[1] **AVS Graduate Research Awardee**

[2] **SSD Morton S. Traum Award Finalist**

Room 315

Plasma Science and Technology
Session PS1-ThM
Advanced Ion and Reactant Control I
Moderator:
Sebastian Engelmann, IBM T. J. Watson Research Center

8:00am 8:15am	**INVITED: PS1-ThM-1** Plasma Prize Talk: Drilling Really Tiny Holes in Glass: The Role of Ion Energy Control in Nano-Fabrication, ***Steven Shannon***, North Carolina State University
8:30am	**PS1-ThM-3** Time-Domain RF Matching and Ion Energy Control in Pulsed Bias Capacitively Coupled Plasmas, ***Yeon Geun Yook (Graduate Student)***, University of Michigan; *Hyunjae Lee,* Samsung Electronics, Republic of Korea; *Mark J. Kushner,* University of Michigan
8:45am	**PS1-ThM-4** Tailored Voltage Waveforms in Capacitively Coupled Plasmas: Effect of Voltage Transition Slope on Ion and Electron Dynamics in Argon Discharges, ***Syed Zulqarnain (Graduate Student)***, *Basak Bagci,* North Carolina State University; *Harutyun Melikyan, Ebony Mays,* Micron Technology; *Steven Shannon, Amanda Lietz,* North Carolina State University
9:00am	**PS1-ThM-5** Studies of Rf-ICP Source with a High Voltage Nanosecond-Tailored Voltage Waveform Biased Substrate, ***Yerbolat Ussenov***, *Yevgeny Raitses,* Princeton Plasma Physics Laboratory
9:15am	**PS1-ThM-6** Effects of Ar/O2 Gas Mixture Ratios on Ion Energy Distribution Functions in a Dual-Frequency CCP, ***Tanjina Akter (Graduate Student)***, *Syed Zulqarnain, David Kanfer, Basak Bagci, Duncan Trosan,* North Carolina State University; *Chenyao Huang, Mark J. Kushner,* University of Michigan; *Amanda Lietz, Steven Shannon,* North Carolina State University
9:30am	**PS1-ThM-7** Passive Antenna Control of Ion Energy in Inductively Coupled Plasmas: Mechanism Study via Antenna Design Variation, ***Minsu Choi (Graduate Student)***, Department of Physics, Chungnam National University, Republic of Korea; *Chulhee Cho,* Institute of Quantum Systems (IQS), Chungnam National University, Republic of Korea; *Inho Seong, Wonnyoung Jeong, Byeongyeop Choi, Seonghyun Seo, Isak Lee,* Department of Physics, Chungnam National University, Republic of Korea; *Youngseok Lee,* TEK R&D center, Tokyo Electron Korea; *Shinjae You,* Department of Physics, Chungnam National University, Republic of Korea
9:45am	**PS1-ThM-8** Modeling Ion Fluxes and Energies in a Remote Inductively Coupled Plasma, ***Mackenzie Meyer***, *David Boris, Michael Johnson, Peter Litwin, Neeraj Nepal, Jeffrey Woodward, Virginia Wheeler,* Naval Research Laboratory; *Mark Kushner,* University of Michigan, Ann Arbor; *Scott Walton,* Naval Research Laboratory
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**

Plasma Science and Technology
Session PS2-ThM
Advanced Ion and Reactant Control II
Moderators:
Suman Bhaumik, TEL Technology Center, America, LLC,
Mingmei Wang, Lam Research Corporation

11:00am 11:15am	**INVITED: PS2-ThM-13** Energy-Resolved Angular Distribution of Ions Impinging on Biased Electrode in Dual-Frequency Capacitively-Coupled Ar Plasma, ***Hirotaka Toyoda***, Nagoya University, Japan
11:30am	**PS2-ThM-15** Tailored Voltage Waveforms in Inductively Coupled Plasmas for Cryogenic Etching using Ar/HF Gas Mixtures, ***Yifan Gui (Graduate Student)***, *Yeon Geun Yook, Chenyao Huang,* University of Michigan, Ann Arbor; *Saravanapriyan Sriraman,* Lam Research; *Mark J. Kushner,* University of Michigan, Ann Arbor
11:45am	**PS2-ThM-16** Mechanisms of Si, SiCl, SiCl2, and Cl radical production and their role in isolated sidewall taper formation in pulsed Ar + Cl2 plasmas, ***V S Santosh K Kondeti***, Princeton University Plasma Physics Lab; *Leonid Dorf, Zihao Ding, Geuntak Lee, Sonam D. Sherpa, Takumi Yanagawa, Leonid Belau,* Applied Materials Inc.; *Yevgeny Raitses,* Princeton University Plasma Physics Lab
12:00pm	**PS2-ThM-17** Control of Electron Angular Distributions onto Substrates Using Non-Sinusoidal Low Frequency Biases in Capacitively Coupled Plasmas, *Max Kellermann-Stunt, James Prager,* University of Michigan; *Josh Perry, Paul Melnik, Timothy Ziemba,* Eagle Harbor Technologies; ***Mark J. Kushner***, University of Michigan

Room 316

Atomic Scale Processing Mini-Symposium
Session AP+EL+MS+PS+TF-ThM
Advancing Spectroscopic Ellipsometry and Other in-Situ Techniques to Enable Atomic Scale Processing
Moderators:
Marcel Junige, University of Colorado at Boulder,
Adrie Mackus, Eindhoven University, Netherlands

8:00am	**INVITED: AP+EL+MS+PS+TF-ThM-1** Atomic Processes in Surface-Limited ALD Growth Studied by Real-Time Spectroscopic Ellipsometry, ***Eva Schubert***, *Ufuk Kilic, Yousra Traouli, Mathias Schubert,* University of Nebraska - Lincoln
8:15am	
8:30am	**AP+EL+MS+PS+TF-ThM-3** Tracking Critical Points: In Situ Ellipsometry for Rapid Assessment of Atomic Layer Processes on III-V Interfaces, ***John Murphy***, *Glenn Jernigan, Michael Johnson, David Boris, Scott Walton, Jill Nolde,* U.S. Naval Research Laboratory
8:45am	**AP+EL+MS+PS+TF-ThM-4** Intelligent Sustainable ALD Research Platform Integrating On-Demand Precursor Delivery with *in situ* Imaging Ellipsometry, ***Takeshi Momose***, *Hiroshi Nishizato,* Kumamoto University, Japan; *Yugo Nakaya,* HORIBA STEC, Co., Ltd. / Kumamoto University, Japan; *Kanta Ishida, Shota Oda, Kinichi Nasu,* Kumamoto University, Japan; *Lianhua Jin,* University of Yamanashi, Japan; *Hiroshi Okajima,* Kumamoto University, Japan
9:00am	**INVITED: AP+EL+MS+PS+TF-ThM-5** Real-Time Insights into Plasma-Based Atomic-Scale Processing via Ellipsometry, ***Gottlieb Oehrlein***, University of Maryland College Park
9:15am	
9:30am	**AP+EL+MS+PS+TF-ThM-7** Spectroscopic Ellipsometry for Screening Chemical and Microstructural Properties of MoS_2 Thin Films Grown by Plasma Enhanced ALD, ***Douglas Heine (Graduate Student)***, University of Michigan, Ann Arbor; *Paula Arellano,* University of Michigan; *Ageeth Bol,* University of Michigan, Ann Arbor
9:45am	**AP+EL+MS+PS+TF-ThM-8** Monitoring Electron Beam-Assisted Atomic Layer Etching via Real-Time Ellipsometry and in-Situ XPS: Insights on the Early Stages, ***Vennela Vuruputuri (Graduate Student)***, Department of Physics, and Institute for Research in Electronics and Applied Physics, University of Maryland; *Robert Bruce,* IBM TJ Watson Research Center; *Nathan Marchack,* IBM TJ Watson Center; *Marinus Hopstaken,* IBM TJ Watson Research Center; *Gottlieb Oehrlein,* Department of Material Science and Engineering, and Institute for Research in Electronics and Applied Physics, University of Maryland
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**
11:00am	**INVITED: AP+EL+MS+PS+TF-ThM-13** Building Intelligence Through in Situ Techniques for Atomic Layer Processes, ***Parag Banerjee***, University of Central Florida
11:15am	
11:30am	**AP+EL+MS+PS+TF-ThM-15** Real Time Spectroscopic Ellipsometry and Passivation Studies of Ultra-Thin a-Si:H Films for C-Si / a-Si:H Heterojunction Solar Cells, ***Venkanna Kanneboina***, *Prabin Dulal, Bishal Bishal Shrestha, Madan K. Mainali, Balaji Ramanujam, Ambalanath Shan, Nikolas J. Podraza,* University of Toledo
11:45am	**AP+EL+MS+PS+TF-ThM-16** Quantifying Interface Formation in InP/Al_2O_3: ALD Films Probed by XPS and MIS C-V, ***Fabiano Borges (Graduate Student)***, University of Campinas (Unicamp) and Federal Institute of Education, Science and Technology of São Paulo (IFSP), Brazil; *Cassio Almeida,* Semiconductor Laboratory (LabSem), Center for Telecommunication Studies (CETUC), Pontifical Catholic University of Rio de Janeiro (PUC-Rio), Brazil; *Ângela Albuquerque,* Brazilian Nanotechnology National Laboratory (LNNano, Brazilian Center for Research in Energy and Materials (CNPEM)), Brazil; *Gustavo Vieira,* Institute for Advanced Studies (IEAv), Department of Aerospace Science and Technology (DCTA), Brazilian Air Force, Brazil; *José Diniz,* University of Campinas (UNICAMP), Brazil
12:00pm	**AP+EL+MS+PS+TF-ThM-17** In Situ Scatterometry Monitoring of Selectivity in 3D Patterns during Atomic-Scale Processing, ***Marcel Junige***, *Steven M. George,* University of Colorado Boulder

Thursday Morning, November 12, 2026

Room 317

8:00am	**INVITED: AIML1-ThM-1** AI-Driven Synthesis by Pulsed Laser Deposition: Autonomous Experimentation and Human-AI Collaboration, ***Sumner B. Harris,*** Center for Nanophase Materials Sciences, Oak Ridge National Laboratory	**AI/ML/Autonomous Experimentation for Thin Films Processing** **Session AIML1-ThM** **Linking AI/ML Tools with Diagnostics and Film Growth: PLD/CVD/ALD** **Moderators:** **Renato Camata**, University of Alabama at Birmingham, **Gregory Doerk**, Brookhaven National Laboratory
8:15am		
8:30am	**AIML1-ThM-3** Physics-Informed Gaussian Process Active Learning for Modeling of PLD Plume Dynamics, ***Zahra Nasiri (Graduate Student)****, Dorien Carpenter, Jacob H Paiste,* University of Alabama at Birmingham*; Sumner B Harris,* Center for Nanophase Materials Sciences, Oak Ridge National Laboratory*; Renato P Camata,* University of Alabama at Birmingham	
8:45am	**AIML1-ThM-4** Toward Autonomous Screening of oMLD Thin Films for Next-Generation Lithium-ion Battery Materials, ***Campbell A. Sweet (Graduate Student)****, Kim A. Gerhard, Blaine D. Kelly, Lucas R. Kuehnel, Matthias J. Young,* University of Missouri	
9:00am	**AIML1-ThM-5** QCMPy: Open-Source Python Codebase for in-Situ QCM Kinetics Monitoring, ***Eden Goodwin (Graduate Student)***[1]*, Maram Bakiro, Victoria Velez, Derek Reid, Seán Barry,* Carleton University, Canada	
9:15am	**AIML1-ThM-6** Accelerating Peald Process Development with Explainable Machine Learning, ***Hamidur Rahman (Graduate Student)****,* University of Michigan, Ann Arbor*; Ian Campbell,* IMEC USA*; Paula Arellano-Vasquez, Joshua Kammeraad, Paul Zimmerman, Ageeth Bol,* University of Michigan, Ann Arbor	
9:30am	**AIML1-ThM-7** Non-Negative Matrix Factorization for in Situ Gas Analysis During Atomic Layer Deposition, ***Andreas Werbrouck****, Aditya Chalishazar, Dirk Poelman, Philippe F. Smet, Jolien Dendooven, Christophe Detavernier,* Ghent University, Belgium	
9:45am	**AIML1-ThM-8** Machine Learning Assisted Multiscale Simulation of Metal Deposition, ***Michael Nolan****,* Tyndall Institute, Ireland*; Karl Ronnby, Samuel Delgado,* Tyndall National Institute, University College Cork, Ireland	
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**	
11:00am	**AIML2-ThM-13** From Noisy Data to Quantitative Structure: AI-Enabled Electron Microscopy and Spectroscopy, *Judith Yang****, Brian Lee****, Meng Li, Dmitri Zakharov, Deyu Lu, Xiaohui Qu,* Brookhaven National Laboratory	**AI/ML/Autonomous Experimentation for Thin Films Processing** **Session AIML2-ThM** **AI/ML Across Materials Experimentation: Design, Characterization, Process Control, and Data Infrastructure** **Moderators: Michael Nolan**, Tyndall National Institute, University College Cork, Ireland, **Campbell Sweet**, University of Missouri
11:15am	**AIML2-ThM-14** Machine Learning-Assisted Pulsed Laser Deposition Based on Plasma Optical Emission Signatures, ***Dorien Carpenter (Graduate Student)****, Roman Luckett, Zahra Nasiri, Shiva Gupta, Rodion Mayatskiy,* University of Alabama at Birmingham*; Sumner Harris,* Center for Nanophase Materials Sciences, Oak Ridge National Laboratory*; Renato Camata,* University of Alabama at Birmingham	
11:30am	**AIML2-ThM-15** Human-in-the-loop Agentic Design of Experiments for Molecular Beam Epitaxy Synthesis of In(Ga)Sb Self-Assembled Quantum Dots in an InAs Matrix, ***Molly McDonough (Graduate Student)***[2]*,* Pennsylvania State University*; Priyanka Petluru, Aaron Muhowski,* Sandia National Laboratories*; Wesley Reinhart, Stephanie Law,* Pennsylvania State University	
11:45am	**AIML2-ThM-16** Enabling AI-Driven Materials Discovery Through Data Infrastructure, *Akshay Talekar****, Harman Farwah,*** UL Research Institutes	
12:00pm		

[1] **TFD James Harper Award Finalist**

[2] **AVS Nellie Yeoh Whetten Awardee**

Room 318

Advanced Microelectronic Materials and Devices Mini-Symposium
Session AM+EM+TF-ThM
Ferroelectric Thin Films
Moderators:
John F. Conley, Jr., Oregon State University,
Daniel Pennachio, Naval Research Laboratory

8:00am 8:15am	**INVITED: AM+EM+TF-ThM-1** Processing and Properties of Ferroelectric Wurtzite Thin Films, ***Jon-Paul Maria,*** Penn State University
8:30am	**AM+EM+TF-ThM-3** Interfacial Control and Property Enhancement Through Proximity Ferroelectricity, ***Ian Mercer (Graduate Student),*** *William Prudnick, Saeed Almishal, Pochun Hsieh, Stanislav Udovenko, Darren Pagan, Venkatraman Gopalan, Jon-Paul Maria,* Penn State University
8:45am	**AM+EM+TF-ThM-4** Unveiling the Hidden Role of Interfacial Layer in Ta/HZO Ferroelectric Tunnel Junctions Band-Profile and Tunneling-Electroresistance Engineering, ***Sanghyun Lee,*** University of Kentucky; *Kent Price,* Morehead State University; *M. David Henry, Samantha Jaszewski,* Sandia National Laboratories, USA; *Alexander Blevins,* University of Kentucky
9:00am	**AM+EM+TF-ThM-5** Processing Window and Property Enhancement via Tellurium Co-Doping in Sputtered Ferroelectric $Zn_{1-x}(Mg, Te)_xO$ Thin Films, ***William Prudnick (Graduate Student),*** *Ian Mercer,* Pennsylvania State University; *Ece Günay,* Carnegie Mellon University; *Po Chun Hsieh, Saeed Almishal,* Pennsylvania State University; *Elizabeth Dickey,* Carnegie Mellon University; *Venkatraman Gopalan, Jon-Paul Maria,* Pennsylvania State University
9:15am	**AM+EM+TF-ThM-6** Structurally Compatible Al-doped ZnO Bottom Electrode for Wurtzite Ferroelectric Mg-substituted ZnO Thin Films, ***Sharon Yang (Graduate Student),*** The Pennsylvania State University; *Ece Gunnay,* Carnegie Mellon University; *William Prudnick,* The Pennsylvania State University; *Elizabeth Dickey,* Carnegie Mellon University; *Jon-Paul Maria,* The Pennsylvania State University
9:30am	**AM+EM+TF-ThM-7** Stabilization of Antipolar Pbca Phase in Hafnium Zirconium Oxide via Aluminum Substitution, ***Yong Kyu Choi (Graduate Student),*** University of Virginia, USA; *MinChul Kang,* Ames National Laboratory; *Tinase Ale,, Nicolas Lam, Andrea Watson, Kory Burns, Stephen McDonnell, Lin Zhou, Jon Ihlefeld,* University of Virginia, USA
9:45am	**AM+EM+TF-ThM-8** Morphotropic Phase Boundary Like Dielectric Enhancement in ALD Deposited ZrO_2-Based Thin Film, ***Myeongchan Ko (Graduate Student),*** Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea; *Beatriz Noheda,* University of Groningen, Netherlands; *Kyung Min Kim,* Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**
11:00am 11:15am	**INVITED: AM+EM+TF-ThM-13** Ferroelectricity in Atomic Layer Annealed Nitride-Based Thin Films, ***Andrew Meng,*** *Dominic Dalba, Dilan Gamachchi, Indeewari Karunarathne, Bipin Bhattarai,* University of Missouri-Columbia; *Xiaoman Zhang,* University of North Alabama; *Wangwang Xu,* Louisiana State University; *Somayeh Saadat Niavol,* University of Missouri-Columbia; *Dongmei Cao, W.J. Meng,* Louisiana State University
11:30am	**AM+EM+TF-ThM-15** Ferroelectric and Rf Electrical Properties of Peald Scaln Thin Films, ***Virginia Wheeler,*** *Vikrant Gokhale, Margo Staruch,* US Naval Research Laboratory; *Jaime Hart,* Nova Research Inc; *Jonathan Chin, Peter Litwin,* NRC, US Naval Research Laboratory; *Neeraj Nepal,* US Naval Research Laboratory; *Gilbert Rayner, Jr, Noel O'Toole,* Kurt J. Lesker Company; *Nicholas Strnad,* Army Research Laboratory
11:45am	**AM+EM+TF-ThM-16** Atomic-Scale Structure and Domain Mapping in Hafnia-Based Ferroelectrics, ***Ece Gunay (Graduate Student),*** Carnegie Mellon University; *Sebastian Calderon,* Carnegie Mellon University, USA; *Rintaro Maki, Yuichi Shimakawa,* Kyoto University, Japan; *Daisuke Kan,* Osaka University, Japan; *Elizabeth Dickey,* Carnegie Mellon University, USA
12:00pm	**AM+EM+TF-ThM-17** Correlating Biaxial Stress to Metastable Phases in $Hf_{0.5}Zr_{0.5}O_2$ on Substrates with Different Coefficients of Thermal Expansion, ***Nooreen Qureshi (Graduate Student),*** University of Virginia, USA; *Luke Johnson,* Purdue University, USA; *Jordan Hachtel,* Oak Ridge National Laboratory, USA; *Jon Ihlefeld, Kory Burns,* University of Virginia, USA

Thursday Morning, November 12, 2026

Room 319

8:00am		**Advances in Battery Engineering, Interface Design, and Characterization Mini-Symposium** **Session BT1+AS+CA+TF-ThM** **Interface Engineering in Batteries** **Moderators:** **Adriana Creatore**, Eindhoven University of Technology, Netherlands, **Alexander Kozen**, University of Vermont
8:15am		
8:30am		
8:45am		
9:00am	**BT1+AS+CA+TF-ThM-5** Atomic Layer Deposition (ALD) Tuned Interfaces for High-Performance Lithium- and Manganese-Rich Cathodes, ***Jahnavi Manikantan Sudharma (Graduate Student)***, Argonne National Laboratory; *Jeffrey Elam,* Argonne National Laboratory, USA	
9:15am	**BT1+AS+CA+TF-ThM-6** Atomic Layer Deposition for Lithium Metal Anode Stability, *Niels Hoogedoorn, Meike Pieters, Cristian van Helvoirt,* ***Mariadriana Creatore***, Eindhoven University of Technology, Netherlands	
9:30am	**BT1+AS+CA+TF-ThM-7** Buffer Layer Oxidative Polymerization to Stabilize Li Metal Anodes for Lithium Ion Batteries, ***Amit K. Datta (Graduate Student)***, *Blaine D. Kelly, Dilan M. Gamachchi, Indeewari M. Karunarathne, Campbell A. Sweet, Andrew C. Meng, Matthias J. Young,* University of Missouri	
9:45am	**BT1+AS+CA+TF-ThM-8** Modulation of Anode-Free Sodium Battery Interfaces through Atomic Layer Deposition of NaF, ***Jonathan Thurston***, *Aaron Melemed, Neil Dasgupta,* University of Michigan	
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**	
11:00am	**INVITED: BT2+AS+CA+TF-ThM-13** Understanding the Electrically-Limited Reaction Kinetics and Dynamics for Conversion Electrode Iron Fluoride, ***Chuan-Fu Lin***, Catholic University of America	**Advances in Battery Engineering, Interface Design, and Characterization Mini-Symposium** **Session BT2+AS+CA+TF-ThM** **Advanced Battery Electrodes** **Moderators: Alexander Kozen**, University of Vermont, **Tanguy Terlier**, Rice University, **Andrew Westover**, Oak Ridge National Laboratory
11:15am		
11:30am	**BT2+AS+CA+TF-ThM-15** Molecular Mapping Investigations of Prelithiation Alloy Formation via Thermal Evaporation on Silicon Based Electrodes, ***Gabriel Parker***, *Amanda Musgrove, Gabriel Veith, Ivan Matyushov, Xiao-Ying Yu,* Oak Ridge National Laboratory, USA	
11:45am		
12:00pm		

Room 320

8:00am 8:15am	**INVITED: TS-ThM-1** Magnomechanical Noise Thermometry, ***John Davis,*** University of Alberta, Canada	**The Future of Temperature Sensing** **Session TS-ThM** **The Future of Temperature Sensing IV** **Moderators:** **Nikolai Klimov**, National Institute of Standards and Technology, **Sesha Challa**, NIST-Gaithersburg
8:30am	**TS-ThM-3** Compact Blackbody Radiation Atomic Sensor (CoBRAS), *Eric Norrgard,* National Institute of Standards & Technology*;* ***William Newman,*** National Institute of Standards and Technology	
8:45am	**TS-ThM-4** Electro-Optic Frequency Comb Doppler-Broadening Thermometry, ***Sean Bresler,*** University of Maryland, College Park/National Institute of Standards and Technology (NIST)*; Erin Adkins,* National Institute for Science and Technology (NIST)*; Stephen Eckel,* National Institute of Standards and Technology (NIST)*; David Long,* National Institute for Science and Technology (NIST)*; Benjamin Reschovsky, Daniel Barker,* National Institute of Standards and Technology (NIST)	
9:00am 9:15am	**INVITED: TS-ThM-5** Towards Practical Integrated Primary Thermometry with Optomechanical and Photonic Techniques, ***Olga Kozlova,*** LNE-Cnam, France	
9:30am	**TS-ThM-7** Two-Dimensional Silicon Optomechanical Crystals for Quantum-Referenced Temperature Sensing, ***Daniel Ramos,*** CSIC, Spain*; María José Martin Hernandez,* CEM, Spain*; Irene Castro,* CSIC, Spain*; Iago Sanchez,* CEM, Spain	
9:45am	**TS-ThM-8** Multi MOF Functionalized Silicon Photonic Ring Resonator Gas Sensor with Built-in Temperature Compensation for CO_2 Detection, ***Bibek Ramdam****, Hyun-Tae Kim, Miao Yu,* University of Maryland	
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**	
11:00am	**AC-ThM-13** Scanning Tunneling Spectroscopy Reveals Extreme Stoichiometric Sensitivity in Actinide Oxides, ***Benjamin Heiner,*** *Miles Beaux,* Los Alamos National Laboratory	**Actinides and Rare Earths** **Session AC-ThM** **Actinides and Rare Earths Early Career** **Moderators:** **MIles Beaux**, LANL, **Krzysztof Gofryk**, Idaho National Laboratory, **Itzhak Halevy**, Ben Gurion Uni. Be'er Sheva, Israel
11:15am	**AC-ThM-14** Structural and Magnetism of Lanthanide- and Actinide-based Pyrochlores, ***Binod Rai****, Gia Thinh Tran,* Savannah River National Lab	
11:30am	**AC-ThM-15** Role of Surface Oxidation in the Interdiffusion Behavior of Uranium-Niobium Diffusion Couples, ***Michelle Greenough****, Joseph Boro, Adrian Gonzales, W. Preston Cole, Debra Rosas, Erik Oerter, Scott Donald, Tien Roehling, Tae Wook Heo,* Lawrence Livermore National Laboratory	
11:45am	**AC-ThM-16** Laboratory-Based X-Ray Absorption Spectroscopy of Actinide Materials, *David Shuh, Alexander Ditter,* Lawrence Berkeley National Laboratory (LBNL)*;* ***Haisley Windsor (Graduate Student),*** Lawrence Berkeley Lab, University of California, Berkeley	
12:00pm	**AC-ThM-17** Scanning Tunneling Spectroscopy of Pu Compound Crystals, ***Miles Beaux****, Benjamin Heiner,* Los Alamos National Laboratory*; Andrew Yost*, Scienta Omicron*; William DeBenedetti, Filip Ronning, Eric Bauer, David Arellano, Derek Prada, Paul Tobash,* Los Alamos National Laboratory	

Room 321

Vacuum Technology
Session VT1-ThM
Vacuum Technology Big Vacuum Systems and Accelerators
Moderators:
Sefer Avdiaj, University of Prishtina, Kosovo,
Eleni Marshall, STFC Daresbury Laboratory, UK

8:00am	**INVITED: VT1-ThM-1** Ultra-High Vacuum Systems for Next Generation Gravitational Wave Detectors, ***Jordan Vanosky,*** LIGO Laboratory, California Institute of Technology
8:15am	
8:30am	**VT1-ThM-3** New Method for Bake-Out of Large Vacuum Systems, ***Freek Molkenboer,*** *Corné Rijnsent, Thom Oosterveer, Han Velthuis, Herman Bekman, Andrey Ushakov, Dirk van Baarle,* TNO Science and Industry, the Netherlands
8:45am	**VT1-ThM-4** in-Situ Bakeout of Beam Line Assemblies Under Project Constraints: A Measurement-Driven Approach Validated on the LCLS-II He Installation Campaign, ***Pierre Ribault,*** *Giulia Lanza, TC Chen, Dale Gill, Dentell Reed, Robert Coy,* SLAC National Accelerator Laboratory
9:00am	**VT1-ThM-5** ESS Vacuum System Commissioning for Beam on Target, ***Marcelo Juni Ferreira,*** European Spallation Source ERIC, Sweden*; Artur Gevorgyan, Laurence Page, Adrien Besson, Hilko Spoelstra,* European Spallation Source, Sweden
9:15am	**VT1-ThM-6** Engineering and Validating Vacuum Systems for the Spallation Neutron Source Second Target Station, ***Austin Chaires,*** Oak Ridge National Laboratory
9:30am	**VT1-ThM-7** Gas Dynamic Modeling of an Upgraded Titanium Arc-Gettering Neutral Beam Pumping System, ***Alan Van Drie,*** TAE Technologies
9:45am	**VT1-ThM-8** VTD Business Meeting
10:00am	**BREAK - Complimentary Coffee in Exhibit Hall**

Vacuum Technology
Session VT2-ThM
Engineering for Big Vacuum Systems
Moderators:
Giulia Lanza, SLAC National Accelerator Laboratory
Klaus Bergner, VACOM, Germany

11:00am	**VT2-ThM-13** Recent Results and Paths Forward Towards the Development of a Continuous Cryogenic Pumping and Impurity Removal System for Fusion Devices, ***Trey Gebhart,*** *Nirajan Adhikari,* Oak Ridge National Laboratory
11:15am	**VT2-ThM-14** SPARC Tokamak Vacuum Pumping System Commissioning and Status, ***Matt Fillion,*** *Oliver Mulvany, Evelyn Richards, Alana Guilbault, Carl Avola, Emily Marget, Chris O'Connor,* Commonwealth Fusion Systems*; Shaun Hughes,* Commonwealth Fusion Systems, UK*; Chris Tesluk, Eric Dombrowski, Cory Crowley, Heena Mutha,* Commonwealth Fusion Systems
11:30am	**VT2-ThM-15** Scalable Strategies for Large Ultra-High-Vacuum Systems, ***Melina Fuentes-Garcia,*** California Institute of Technology
11:45am	**VT2-ThM-16** Engineering Aspects of a-C Coating Systems Targeting Low Secondary Electron Yield, ***Abhilash S Reghu,*** *Byron Golden, Jessica Brown, Sumanta Nayak, Susheng Xin, Kenneth Decker, Charles Hetzel,* Brookhaven National Laboratory
12:00pm	**VT2-ThM-17** The Vacuum System Design for the Extreme Photonics Applications Centre (EPAC), ***Keith Middleman,*** Science & Technology Facilities Council - STFC, UK

Thursday Afternoon, November 12, 2026

	2D Materials **Room 303 - Session 2D-ThA** **2D Materials: From Materials Integration to Electronic Properties and Devices** **Moderator: Rafik Addou**, The University of Texas at Dallas	**Advanced Surface Engineering** **Room 304 - Session SE-ThA** **Advanced Surface Engineering III** **Moderators: Diana Berman**, University of North Texas
2:15pm	**2D-ThA-1** All-van Der Waals Multiferroic Heterostructures, ***Cheng Gong***, University of Maryland, College Park	**INVITED: SE-ThA-1** In-Situ Raman Spectroscopy of Adaptive Tribological Coatings, ***Andrey Voevodin***, University of North Texas
2:30pm	**2D-ThA-2** Oxygen Plasma Assisted Nucleation of HfO2 ALD on MoS2 2-d Material for Gate Stack Applications, ***Robert Grubbs***, IMEC Belgium; *Daire Cott, Benjamin Groven, Pierre Morin, Pawan Kumar, Kaustuv Banerjee, Cesar Javier Lockhart de la Rosa de la Rosa, Gouri Sankar Kar, Johan Swerts,* IMEC, Belgium; *Zsófia Baji,* HUN-REN Centre for Energy Research, Hungary	
2:45pm	**2D-ThA-3** Highly Reactive Nature of HfSe2 Interface with Gold and Scandium Metal Contacts, *Joslin S. Prasanna,* The University of Texas at Dallas; *Christopher M. Sm,* Sandia National Laboratories; *Robert M. Wallace,* ***Rafik Addou***, The University of Texas at Dallas	**SE-ThA-3** Automated Characterization of Combinatorial Thin Films and Their Stress, ***David Adams***, *Finley Haines, Amun Jarzembski,* Sandia National Laboratories, USA
3:00pm	**2D-ThA-4** Polarization-Driven Schottky-to-Ohmic Switching at the α-In2Se3/Fe5GeTe2 van der Waals Interface, ***Shashi Mishra***, *Nicholas W. G. Smith, Sharadh Jois, Gregory M. Stephen,* Laboratory for Physical Sciences; *Sergiy Krylyuk, Albert V. Davydov,* National Institute for Science and Technology (NIST); *Luis Balicas,* National High Magnetic Field Laboratory; *Aubrey T. Hanbicki, Adam L. Friedman, Pratibha Dev,* Laboratory for Physical Sciences	**SE-ThA-4** Designing Defect Structure and Interfacial Strain in an Epitaxial VN Bilayer Film by Tailoring N Concentration, ***Marcus Hans***, *Damian Holzapfel,* RWTH Aachen University, Germany; *Zhuo Chen,* Erich Schmid Institute of Materials Science, Austria; *Soheil Karimi Aghda, Michal Fečík,* RWTH Aachen University, Germany; *Daniel Primetzhofer,* Uppsala University, Sweden; *Zaoli Zhang,* Erich Schmid Institute of Materials Science, Austria; *Jochen Schneider,* RWTH Aachen University, Germany
3:15pm	**2D-ThA-5** Step-Edge–Induced Symmetry Breaking Enables Scalable Ferroelectric Multilayer h-BN, ***Cheng-Maw Cheng***, National Synchrotron Radiation Research Center, Taiwan; *Sheng-Shong Wong,* Department of Physics, National Cheng Kung University, Taiwan; *Chia-Hao Chen,* National Synchrotron Radiation Research Center, Taiwan; *Ming-Hao Lee, Ming-Wen Chu,* Center for Condensed Matter Sciences and Center of Atomic Initiative for New Materials, National Taiwan University, Taiwan; *Kuang-I Lin,* Core Facility Center, National Cheng Kung University, Taiwan; *Tse-Ming Chen, Yi-Chun Chen,* Department of Physics, National Cheng Kung University, Taiwan; *Hung-Chung Hsueh,* Department of Physics, Tamkang University, Taiwan., Taiwan; *Chung-Lin Wu,* Department of Physics, National Cheng Kung University, Taiwan	**SE-ThA-5** Towards Reliable X-Ray Photoelectron Spectroscopy: Understanding Fundamental Differences between Analyses Performed on Samples with and Without Electrical Contact to Spectrometer, ***Grzegorz (Greg) Greczynski***, Linköping University, Department of Physics, Sweden
3:30pm	**2D-ThA-6** Split-Gate Memtransistors for Energy-Efficient Adaptive Reinforcement Learning, ***Zachary Trdinich (Graduate Student)***, *Mark Hersam, Vinod Sangwan,* Northwestern University	**INVITED: SE-ThA-6** High Throughput Thin Film Materials Synthesis via Laser Spike Annealing, ***Drake Austin***, Air Force Research Laboratory (AFRL)
3:45pm	**2D-ThA-7** Charge Redistribution and Surface Electronic Structure in N-Doped Ti_3C_2 MXenes, ***Cheolhwan Yoon (Graduate Student)***, *Jaeeun Park,* Ulsan National Institute of Science and Technology, Republic of Korea; *Dongkyu Lee,* Seoul National University, Republic of Korea; *Junseop Noh,* Ulsan National Institute of Science and Technology, Republic of Korea; *Gun-Do Lee,* Seoul National University, Republic of Korea; *Soon-Yong Kwon, Hyung-Joon Shin,* Ulsan National Institute of Science and Technology, Republic of Korea	
4:00pm	**2D-ThA-8** Assemblies of MXene and Metal-Organic Polyhedra with Post-Functionalized Re(I) Sites for Selective CO_2 Photoreduction, ***Purna Kanta Boruah***, *Vitaly Ordomsky,* CNRS, France	
4:15pm		

Thursday Afternoon, November 12, 2026

	Surface Science **Room 305 - Session SS-ThA** **Rising Stars** **Moderators: Liney Arnadottir**, Oregon State University, **Dario Stacchiola**, Brookhaven National Laboratory	**Undergraduate Poster Session** **Room 310-311 - Session UN-ThA** **Undergraduate Flash Session**
2:15pm	**INVITED: SS-ThA-1** Restructuring, Fluxionality and Dynamics of Heterogeneous Catalysts in Reaction Conditions from First Principles, ***Philippe Sautet***, University of California at Los Angeles	
2:30pm		
2:45pm	**SS-ThA-3** Probing Dynamic Catalytic Interfaces: Structure, Evolution, and Function, ***Gengnan Li***, Center for Nanoscale Materials, Argonne National Laboratory	
3:00pm	**SS-ThA-4** Site-Specific Deuterium Adsorption in Nitrogen-Doped Graphene and Porous Carbon Materials, *Buddhika S. Alupothe Gedara, Peter S. Rice, Prescott Evans, Tom Autrey, Bojana Ginovska, Mi Yeon Byun, Zdenek Dohnálek,* ***Zbynek Novotny***, PNNL	
3:15pm	**SS-ThA-5** Developing a Nanoscopic Understanding of Electronic Metal-Support Interactions: From Model Systems to Powder Catalysts, *Lindsey Penland, Hirushan Hetti Arachchige, Nadith Dissanayake,* ***Rachael Farber***, University of Kansas	
3:30pm	**INVITED: SS-ThA-6** Peter Mark Award Talk: Tip-Enhanced Raman Spectroscopy with Scanning Ion-Conductance Microscopy, ***Naihao Chiang***[1], University of Houston	
3:45pm		
4:00pm		**UN-**ThA-8 **Flash Session** **Presenters:** ***Micheal York,*** College of Southern Maryland ***Kristin Wiens,*** University of Maryland, College Park ***Daniel Hutman,*** University of Maryland, College Park ***Alexander Randall,*** Brigham Young University ***Morgan Schnell,*** Wilkes University ***Serena Rana,*** California State University, Fresno ***Tyler Lin,*** University of Tulsa ***Starr Feng,*** Carnegie Mellon University
4:15pm		

[1] **Peter Mark Memorial Award Winner**

	Plasma Science and Technology **Room 315 - Session PS-ThA** **Simulation for Plasma Processes** **Moderators:** **Nobuyuki Kuboi**, Sony Corporation, **Yu-Hao Tsai**, TEL Technology Center, America, LLC	**Atomic Scale Processing Mini-Symposium** **Room 316 - Session AP+EL+MS+PS+TF-ThA** **Advancing Atomic Scale Processing Through Novel Sources and Pulsing Methods** **Moderator: Han-Bo-Ram Lee**, Incheon National University, Republic of Korea
2:15pm	**INVITED: PS-ThA-1** A Multi-Scale Simulation Methodology for Recipe Design in Semiconductor Etch Processes, ***SeungMin Lee***, Samsung Electronics, Republic of Korea	**AP+EL+MS+PS+TF-ThA-1** High-Throughput Silicon ALE via Rapid Matchless Power Modulation, ***Banks Peete (Graduate Student)***, North Carolina State University; *Jeremy Mettler,* University of Houston; *Paul Melnik,* EHT Semi; *Shreeyansh Rastogi, Zuhair Khan,* University of Houston; *Chris Bowman, James Prager, Timothy Ziemba,* EHT Semi; *Steven Shannon,* North Carolina State University; *Vincent Donnelly,* University of Houston
2:30pm		**AP+EL+MS+PS+TF-ThA-2** Etching Commercially-Relevant Materials Using Tailored Waveform Biasing, ***Benjamin Harris***, *Daryl White, Kate Stokes, Matthew Loveday, James Ellis, Geoffrey Hassall,* Oxford Instruments Plasma Technology, UK
2:45pm	**PS-ThA-3** GPU-Accelerated AMR Simulation of Charging-Driven Instability in Ion-Assisted Etching, ***Takumi Ohmura***, *Satoshi Nakamura, Hisashi Kotakemori, Taishi Ikeda, Kenta Yashima, Yasuyuki Kayama,* Samsung Device Soltuions R&D Japan; *YunTae Lee,* Samsung Electronics, Republic of Korea; *Yukihide Tsuji,* Samsung Electronics, Japan; *Jaehoon Leem, Jaeyong Lee, Shinwook Yi, Moon-Hyun Cha, Jaehoon Jeong,* Samsung Electronics, Republic of Korea	**AP+EL+MS+PS+TF-ThA-3** Precise Ion Energy Control Using Advanced Pulse Modulation for Thin Film Deposition and ALD, ***Yejin Shin***, WONIK IPS CO., LTD., Republic of Korea; *Junghoon Kim, Tae Cho,* WONIK IPS CO., LTD.; *Hyun-Joug Woo, YongBaek Jeon, GyuTai Kim, TaeJoon Kim,* WONIK IPS CO., LTD., Republic of Korea
3:00pm	**PS-ThA-4** Particle in Cell Monte Carlo Collision Simulations of Capacitive Ar/Cl_2 Discharges, *Bahram Mahdavipour,* ***Jon Tomas Gudmunsson***, University of Iceland	**AP+EL+MS+PS+TF-ThA-4** Characterizing Inductively Coupled Plasmas in Ar/N2/H2 Mixtures for Plasma Enhanced Atomic Layer Deposition of Crystalline Films, ***David Boris***, *Jeffrey Woodward, Virginia Wheeler, Michael Johnson, Mackenzie Meyer, Scott Walton,* U.S. Naval Research Laboratory
3:15pm	**PS-ThA-5** Verification and Validation of the Open-Source Code PICLas for Capacitively Coupled Plasma Discharges in Etching Applications, ***Paul Nizenkov***, *Asim Mirza, Stephen Copplestone, Julian Beyer,* boltzplatz - numerical plasma dynamics GmbH, Germany; *Marcel Pfeiffer,* Institute of Space Systems, University of Stuttgart, Germany	**AP+EL+MS+PS+TF-ThA-5** Additive 2D and 3D Micropattern Fabrication with Ruthenium Enabled by Direct-Write Chemical Vapor Deposition, ***Koichi Tanaka***, Argonne National Laboratory, USA; *Eeshan Ketkar, Swarnabha Chattaraj,* University of Chicago; *Samy Kouidri,* university of chicago; *Supratik Guha,* University of Chicago
3:30pm	**PS-ThA-6** Fully Kinetic Full-Chamber Modeling of ICP Discharges, ***Daniel Main***, Silvaco, Inc.; *Seth Veitzer, Tom Jenkins, John Cary,* Silvaco Inc.	**AP+EL+MS+PS+TF-ThA-6** Plasma-Enhanced ALD of TaC_xN_{1-x} Tailored for Superconducting Quantum Technologies Through Ion Energy and Other Plasma Control Knobs, *Silke Peeters, Arthur De Jong, Adrie Mackus,* ***Erwin Kessels***, Eindhoven University of Technology, Netherlands; *Harm Knoops,* Oxford Instruments Plasma Technology, Netherlands
3:45pm	**PS-ThA-7** Generalized RF Breakdown Surfaces and Avalanche Regimes in Dual-Frequency Argon CCPs: A 2D PIC/MCC Study, ***Junesuk Kang (Graduate Student)***, KWT Solution, Pusan National University, Republic of Korea; *Hae June Lee,* Pusan National University, Republic of Korea	**AP+EL+MS+PS+TF-ThA-7** From Plasma to Process: Understanding Dielectric Barrier Discharges for Spatial Atomic Layer Deposition, ***Ralph Houben (Graduate Student)***, *Antoine Salden, Jente Wubs, Richard Engeln, Erwin Kessels, Julian Held, Bart Macco,* Eindhoven University of Technology, The Netherlands
4:00pm	**PS-ThA-8** Stochasticity in Advanced Plasma Etching, ***Xingyi Shi***, *Han Luo, Jason Kenney, Shahid Rauf,* Applied Materials	
4:15pm	**PS-ThA-9** Influence of Nitrogen Addition on Metastable Dynamics in a 2.45 GHz Ar-N_2 Plasmas, ***Nafisa Tabassum (Graduate Student)***, *Duncan Trosan,* North Carolina State University; *Abdullah Zafar, Timothy Chen, Kelvin Chan,* Applied Materials, USA; *Steven Shannon,* North Carolina State University	

Room 317

2:15pm	**INVITED: AIML1-ThA-1** Combining Optimization and Agentic Control in Automated Scanning Probe Microscopy, ***Boris Slautin***, *Sheryl Sanchez, Jordan Marshall, Mahshid Ahmadi, Sergei Kalinin,* The University of Tennessee	**AI/ML/Autonomous Experimentation for Thin Films Processing** **Session AIML1-ThA** **AI/ML in Materials Characterization** **Moderators:** **Lucas Kuehnel**, University of Missouri, **Andreas Werbrouck**, Ghent University, Belgium
2:30pm		
2:45pm	**AIML1-ThA-3** Multi-Agent System for Optical Microscopy of 2D Materials Characterization, ***Haozhe "Harry" Wang***, Duke University	
3:00pm	**AIML1-ThA-4** A Reference Architecture for Complex Scientific Chatbots Based on ChASE, an AI Assistant for SIMS, ***Jordan Barrette***, *Jerry Hunter, Prateek Maheshwari,* Beamline Incorporated	
3:15pm	**AIML1-ThA-5** Leveraging Automated Characterization and Machine Learning to Optimize Defects for Quantum Sensing, ***Dane deQuilettes***, Princeton University	
3:30pm	**INVITED: AIML2-ThA-6** Turning RHEED into a Tool for Stoichiometry Analysis and Real-time Control of Epitaxial Film Growth Using Machine Learning, ***Ryan Comes***, University of Delaware	**AI/ML/Autonomous Experimentation for Thin Films Processing** **Session AIML2-ThA** **AI/ML-enhanced RHEED in Thin Film Growth** **Moderators: Dorien Carpenter**, University of Alabama at Birmingham, **Martin Seifrid**, North Carolina State University
3:45pm		
4:00pm	**AIML2-ThA-8** AI-Driven Recognition of RHEED Pattern Features for MBE Monitoring, ***Vadim Gorshanov (Graduate Student)***, DCA Instruments Oy, University of Turku, Finland; *Markku Rajala,* DCA Instruments Oy, Finland; *Milica Todorović,* University of Turku, Finland	
4:15pm	**AIML2-ThA-9** Toward LLM Driven Agentic Automation of RHEED Diagnostics in Thin Film Deposition, ***Asraful Haque***, *Rama Vasudevan, Christopher Rouleau, Sumner Harris,* ORNL	

	Advanced Microelectronic Materials and Devices Mini-Symposium **Room 318 - Session AM+EM+TF-ThA** **ALD Fundamentals to Devices** **Moderators:** **Andrew Meng**, University of Missouri, **Himanandhan Reddy Kottur,** University of Florida	**Advances in Battery Engineering, Interface Design, and Characterization Mini-Symposium** **Room 319 - Session BT-ThA** **Advanced Characterization of Battery Interfaces** **Moderators: Samantha Rosenberg**, Kairos Power, **Xiao-Ying Yu**, Oak Ridge National Laboratory, USA
2:15pm	**INVITED: AM+EM+TF-ThA-1** When Growth Has Not Yet Begun: Nucleation and Interface Control in Atomic Layer Deposition, ***Zsófia Baji,*** Centre for Energy Research, Hungary*; Zsófia Bérces,* Centre for energy research, Hungary*; Zoltán Szabó,* Centre for Energy Research, Hungary	**INVITED: BT-ThA-1** Designing Materials for High Performance Energy Storage Applications at Solid-Solid and Solid-Liquid Interfaces, ***Ajay Karakoti,*** Pacific Northwest National Laboratory
2:30pm		
2:45pm	**AM+EM+TF-ThA-3** MoO_2Cl_2 as an alternative Mo ALD Precursor for MoS_2 with Improved Thin Film Properties, ***Nihal Khatiwoda (Graduate Student),*** University of Michigan*; Ian Campbell,* IMEC USA*; Pierre Morin,* IMEC Belgium*; Benjamin Groven,* IMEC, Belgium*; Ageeth Bol,* University of Michigan	**INVITED: BT-ThA-3** Advances in Neutron and X-Ray Imaging and Tomography Methods for in Situ Characterization of Lithium-Ion Batteries at NIST, ***David Jacobson****, Jacob LaManna, Elias Baltic, Daniel Hussey,* National Institute of Standards and Technology (NIST)
3:00pm	**AM+EM+TF-ThA-4** Impact of Ti Adhesion Layer and ALD Al_2O_3 Thickness on Interfacial Energy Barriers in metal/insulator/metal (MIM) Devices, *Jessica Haglund****, John Conley,*** Oregon State University	
3:15pm	**AM+EM+TF-ThA-5** Evaluation of Barium-Based Precursors for Atomic Layer Deposition of Barium Titanate Thin Films, ***Aenakshi Sircar (Graduate Student),*** Boise State University*; Peter Micah,* boise State University*; Steven Hues, Elton Graugnard,* Boise State University	**BT-ThA-5** Airless Transfer for Battery Materials: Preserving Native Surface Chemistry for Analysis, ***Forrest Nichols****, Dan Sullivan,* Eurofins EAG
3:30pm	**AM+EM+TF-ThA-6** Deposition of Metastable ZrO_2 Crystalline Films at Low Temperatures by Electron-Enhanced Atomic Layer Deposition (EE-ALD)*, Zachary Sobell,* ***Steven George,*** University of Colorado at Boulder	**BT-ThA-6** ASSD Student Award Finalist Presentation: Strategies for ToF-SIMS of Buried Interfaces in Solid Polymer Electrolyte Batteries, ***Reyhane Shavandi (Graduate Student)***[1]*, Meghan Burns, Neelam Sunariwal,* University of Illinois at Chicago*; Sanja Tepavcevic,* Argonne National Laboratory*; Luke Hanley,* University of Illinois at Chicago
3:45pm	**AM+EM+TF-ThA-7** Zirconium Phosphate ALD Electrolyte for TiO2-Channeled H+ ECRAM, ***John Hoerauf (Graduate Student)****, David Stewart,* University of Maryland, College Park*; A. Alec Talin,* Sandia National Laboratories, USA*; Gary Rubloff,* University of Maryland, College Park	**BT-ThA-7** Correlative Imaging and Surface Analysis of Air-Sensitive Materials, ***Lu Ping,*** Thermo Fisher Scientific, USA*; Hsiang-Han Tseng, Helen Oppong-Mensah, Tim Nunney,* Thermo Fisher Scientific, UK
4:00pm	**AM+EM+TF-ThA-8** Work-Function Metal Engineering for Gate-All-Around Logic Devices: Materials, Integration Challenges, and Pathways for Future Technology Nodes, ***Ganesh Dindukurthi,*** ASM America	
4:15pm		

[1] **ASSD Student Award Finalist**

Thursday Afternoon, November 12, 2026

	Spectroscopic Ellipsometry **Room 320 - Session EL-ThA** **Spectroscopic Ellipsometry Oral Session** **Moderators: Andy Antonelli**, Antonelli Research and Technology, **Ufuk Kilic**, University of Nebraska - Lincoln, **Nikolas Podraza**, University of Toledo, **Eva Schubert**, University of Nebraska - Lincoln	**Vacuum Technology** **Room 321 - Session VT-ThA** **Vacuum Technology Flow and Pumps** **Moderators:** **Marcello Juni Ferreira**, ESS, Sweden, **Marcy Stutzman**, Jefferson Lab
2:15pm	**INVITED: EL-ThA-1** Spectroscopic Ellipsometry for Advanced Semiconductor Metrology Applications, ***Matthew Hilfiker,*** *Rostislav Grynko, Nick Keller,* Onto Innovation	**INVITED: VT-ThA-1** Vacuum Technology in Cork Science: From Permeability to TCA Desorption, ***Orlando Teodoro,*** Nova School of Science and Technology, Portugal
2:30pm		
2:45pm	**EL-ThA-3** In It to Thin It: Spectroscopic Ellipsometry for Native Oxide Measurement on Indium Thermal Interface Materials, ***Maxwell Junda,*** *Biswas Subedi,* Covalent	**VT-ThA-3** Gas Transport in 3D-Printed Polymers: Linking Microstructure to Outgassing and Permeation Behavior, ***Sefer Avdiaj,*** University of Prishtina, Kosovo*; Zgjim Rrustemi,* University of Prishtina. Department of Physics, Kosovo*; Ramiz Hoti,* University of Prishtina. Department of Chemistry, Kosovo*; Partizan Malkaj,* Polytechnic University of Tirana. Department of Physics, Albania*; Zeqe Tolaj,* University of Prishtina. Department of Physics, Kosovo*; Makfire Sadiku,* University of Prishtina. Department of Chemistry, Kosovo
3:00pm	**EL-ThA-4** Developing an Optical Database of Thermally Evaporated Cadmium Selenide Telluride Alloys for Machine Learning Enhanced Spectroscopic Ellipsometry, ***Alex Bordovalos (Graduate Student)****, Nadeesha Katakumbura, Eva Mulloy, Bishal Shrestha, Suresh Chaulagain, Marie, Solange Tumusange, Balaji Ramanujam, Randy Ellingson, Ambalanath Shan, Nikolas Podraza,* University of Toledo	**VT-ThA-4** Feasibility of Turbomolecular Deceleration as an Intrinsic Measurement of System Pressure, ***Andrew Chew****, Paul Smith, Sam Lodge,* Edwards Ltd, UK*; James Healy,* University of Bristol, UK
3:15pm	**EL-ThA-5** Spectroscopic Ellipsometry Studies of Materials for High Power Electronics, *Madan Kumar Mainali,* ***Prabin Dulal,*** *Bishal Shrestha, Suresh Chaulagain, Venkanna Kanneboina, Ambalanath Shan,* ***Nikolas Podraza,*** University of Toledo	**VT-ThA-5** NAVAC Vacuum Technology: Old Problems. New Architecture. NAVAC HelixDrive Screw Pumps and NAVAC ShieldDrive Mag-Coupled Rotary Vane Pumps, ***Evan Sawyer,*** NAVAC
3:30pm	**EL-ThA-6** Photoacoustic Simulations for Acoustic Critical Dimension Metrology, ***George Antonelli,*** Antonelli Research & Technology*; Brian Daly,* Vassar College	**VT-ThA-6** From Experiment to Grid: A Systems Engineering Approach to Vacuum Pumping Systems in Stellarators, ***Danah Garcia,*** Type One Energy Group, Inc.
3:45pm	**EL-ThA-7** Optical Modeling of Plasmonic Nanostructures, ***Peter Petrik,*** *Géza Szántó, Deshabrato Mukherjee, Chao Zeng, Máté Stift, Shayesteh Raeisi, Zoltán Lábadi,* Centre for Energy Research, Hungary*; Attila Bonyár,* Budapest University of Technology and Economics, Hungary*; Miklós Fried,* Centre for Energy Research, Hungary	**VT-ThA-7** Measuring Rf Surface Resistance of Non-Evaporable Getter Coatings, ***Eleni Marshall,*** *Oleg Malyshev, Daniel Seal, Reza Valizadeh,* STFC Daresbury Laboratory, UK
4:00pm	**EL-ThA-8** Engineering Anisotropic Optical Properties in Hybrid Plasmonic Metamaterials, ***Ufuk Kilic,*** *Raymond Smith, Yousra Traouli,* University of Nebraska-Lincoln*; Christos Argyropoulos,* Pennsylvania State University*; Eva Schubert, Mathias Schubert,* University of Nebraska-Lincoln	
4:15pm	**EL-ThA-9** From Disordered Nanoparticles to Periodic Gratings: A Unified Framework for High-Precision Plasmonic Metrology, ***Deshabrato Mukherjee,*** *Géza Szántó, Chao Zeng, Máté Stift, Shayesteh Raeisi, Zoltán Lábadi,* Centre for Energy Research, Hungary*; Attila Bonyár,* Budapest University of Technology and Economics, Hungary*; Miklós Fried, Peter Petrik,* Centre for Energy Research, Hungary	

2D Materials
Room Ballroom A - Session 2D-ThP
2D Materials Poster Session
4:30 – 7:00 pm

2D-ThP-1 Electrochemical Lithium Intercalation Cycling-Induced Phase Transition of 2H-MoS_2 to 1T and delayed Reversion to the 2H Phase, ***Yerin Hong (Graduate Student)***, *Juhwan Lim, Jinhong Min,* University of Michigan, Ann Arbor, Republic of Korea*; Nishkarsh Agarwal,* University of Michigan, Ann Arbor, India*; Robert Hovden,* University of Michigan, Ann Arbor*; Ageeth Bol,* University of Michigan, Ann Arbor, Netherlands*; Yiyang Li,* University of Michigan, Ann Arbor

2D-ThP-2 Controlling Sputtering Energy Threshold in TMD Plasma Processing via Surface Functionalization and Cryo Temperatures, ***Yury Polyachenko (Graduate Student)***, *Sofiia Yarytska,* Princeton University*; Yuri Barsukov, Shoaib Khalid, Igor Kaganovich,* Princeton University Plasma Physics Lab

2D-ThP-3 Graphene/MoS_2 Au Nanoparticle Floating-Gate Memristor Arrays for Low-Power Neuromorphic Systems, ***Sabeen Hong (Graduate Student)***, *Woo Jong Yu,* Department of Electrical and Computer Engineering, Sungkyunkwan University, Republic of Korea

2D-ThP-4 Inhibition of Alumina Atomic Layer Deposition on Modified 2D van der Waals Material $CrPS_4$, ***Marissa Piña (Graduate Student)***, *Andrew Teplyakov,* University of Delaware

2D-ThP-6 Strain-Tunable Mid-Infrared Optical Absorption in Bilayer Silicon for Silicon-Compatible Photonics, ***Kumar Vishal***, Wright University

2D-ThP-7 Nanoscale Friction in Exfoliated SnSe and $SnSe_2$ Two-Dimensional Materials, ***Mehmet Ozdogan***, *Thomas Iken, Deniz Cakir, Nuri Oncel,* University of North Dakota

2D-ThP-8 Influence of Sapphire Annealing Conditions on Terrace Formation and TMD Nucleation and Growth Kinetics, ***Morteza Sheibani Karkhaneh (Graduate Student)***, Boise State University

2D-ThP-9 A New Metric to Assess the Rashba Spin-Orbit Coupling in Undulated 2D Materials, *Zhicheng Li, Favian Sun,* ***Sunny Gupta***, *Boris Yakobson,* Rice University

2D-ThP-11 Multifunctional GO-Based 2D Materials for Auranofin Combination Therapies, ***Diego La Mendola***, *Lorenzo Chiaverini, Luca Famlonga,* University of Pisa, Italy*; Cristina Satriano,* University of Catania, Italy*; Tiziano Marzo,* University of Pisa, Italy

2D-ThP-13 Nanoscale Imaging of Layer-Parity and Twist-Dependent Magnetism in CrSBr, ***Aalok Tiwari (Graduate Student)***, Carnegie Mellon University, USA*; Shubhada Patil,* Helmholtz-Zentrum Berlin für Materialien und Energie, Germany*; Ravi Kumar Bandapelli,* Carnegie Mellon University, USA*; Alevtina Smekhova,* Helmholtz-Zentrum Berlin für Materialien und Energie, Germany*; Wenhao Liu,* University of Texas at Dallas*; I-Hsuan Kao, Zhenhong Cui, Brandon Tran,* Carnegie Mellon University, USA*; Zixin Zhai,* University of Texas at Dallas*; Raghvendra Posti, Sandy Adhitia Ekahana,* Carnegie Mellon University, USA*; Alexander X. Gray,* Temple University*; Bing Lv,* University of Texas at Dallas*; Florian Kronast Kronast,* Helmholtz-Zentrum Berlin für Materialien und Energie, Germany*; Simranjeet Singh, Jyoti katoch,* Carnegie Mellon University, USA

2D-ThP-14 Impact of Air Exposure on the Stability and Resistivity of TaS_2 and $TaSe_2$ Films, ***Tinsae Alem (Graduate Student)***, *Michael Hann, Kory Burns, Stephen McDonnell,* University of Virginia

2D-ThP-15 Functional Agents for Functional Materials, ***Bogdan Dryzhakov***, *Emily Herron,* Oak Ridge National Laboratory

2D-ThP-16 Synthesis of Graphene Quantum Dots by Alkali Metal Intercalation and Exfoliation of Anthracite Coal, *George Bepete,* Concordia University, Canada*;* ***Gothamie Ratnayake (Graduate Student)***, *David Emanuel Sanchez, Zhuohang Yu, Edgar Dimitrov, Andres Fest Carreno,* The Pennsylvania State University*; Maykol Christian Damasceno Oliveira, Bartolomeu Cruz Viana, Francisco Eroni Paz Santos,* Federal University of Piauí, Brazil*; Mauricio Terrones,* The Pennsylvania State University

2D-ThP-18 Self-Intercalated Ti Reveal Stacking Order in Bilayer $TiSe_2$ Films, ***Nicolas Paulo Pereira Vasconcelos (Graduate Student)***, University of South Florida

2D-ThP-19 Why Does Selective Area van der Waals Epitaxy (SAVE) Work?, ***Maxim Wunder (Undergraduate)***, Stockton University*; Madison Ramsey, Stephanie Law,* Pennsylvania State University

2D-ThP-20 Measuring Vacancy-Type Defect Density in Monolayer Semiconductors, ***Aleksandar Radic (Graduate Student)***, *Nick von Jeinsen, Vivian Perez, Ke Wang, Min Lin, Boyao Liu,* University of Cambridge, UK*; Yiru Zhu,* Pennsylvania State University*; Ismail Sami,* University of Cambridge, UK*; Kenji Watanabe, Takashi Taniguchi,* NIMS (National Institute for Materials Science), Japan*; David Ward, Andrew Jardine, Akshay Rao, Manish Chhowalla, Sam Lambrick,* University of Cambridge, UK

2D-ThP-21 Surface Electron Accumulation and Spatially Separated Bipolar Transport in WSe_2 Revealed by ARPES, ***Cheng-Maw Cheng***, National Synchrotron Radiation Research Center, Taiwan*; Hemanth Kumar Bangolla,* Graduate Institute of Applied Science and Technology, National Taiwan University of Science and Technology, Taiwan*; Chi-Yang Chen, Kuei-Yi Lee, Liang-Chiun Chao,* Graduate Institute of Electro-Optical Engineering, National Taiwan University of Science and Technology, Taiwan*; Rajesh Kumar Ulaganathan,* Centre for Nanotechnology, Indian Institute of Technology Roorkee, India*; Raman Sankar,* Institute of Physics, Academia Sinica, Taiwan*; Abhishek Ghosh,* Institute of Atomic and Molecular Sciences, Academia Sinica, Taiwan*; Ruei-San Chen,* Graduate Institute of Applied Science and Technology, National Taiwan University of Science and Technology, Taiwan

2D-ThP-22 Selective Area Epitaxy of van der Waals Materials, ***Ryan Trice (Graduate Student)***, *Stephanie Law, Madison Ramsey, Sarah Olandt,* Penn State University

2D-ThP-23 Atomic Layer Deposition of Electrical Contacts to 2D Semiconductors, ***Sebastian Cimino (Undergraduate)***, University of Central Florida*; Justin Chiu, Maxim Wunder, Eric Welp, Ziheng Chen, Suzanne Mohney, Stephanie Law, Saptarshi Das,* Penn State University

2D-ThP-24 Electrically Controllable Single-Photon Emitters in Monolayer WSe_2 with negligible Stark Shift, ***Seon Namgung***, Physics, Republic of Korea

2D-ThP-28 Two-dimensional 1T-HfSe2: Surface Structure and Air Stability, *Christopher M. Smyth,* Sandia National Laboratories*; Joslin S. Prasanna, Hui Zhu,* The University of Texas at Dallas*; Zaibing Guo,* King Abdullah University of Science and Technology, Saudi Arabia*; Joy S. Lee,* The University of Texas at Dallas*; Juan Pablo Oviedo,* Baylor University*; Jian Wang, Julia W.P. Hsu,* The University of Texas at Dallas*; Husam N. Alshareef,* King Abdullah University of Science and Technology, Saudi Arabia*; Moon J. Kim, Jiyoung Kim, Robert M. Wallace,* ***Rafik Addou***, The University of Texas at Dallas

Actinides and Rare Earths
Room Ballroom A - Session AC-ThP
Actinides and Rare Earths Poster Session
4:30 – 7:00 pm

AC-ThP-1 The Application of Occam's Razor to Bremsstrahlung Isochromat Spectroscopy, ***J G Tobin***, University of Wisconsin - Oshkosh

AC-ThP-5 5f Electronic Structure of van der Waals Uranium-Tellerium Alloys, ***Jonathan Denlinger***, Lawrence Berkeley National Laboratory*; Christopher Broyles, Justin Shotton, Sheng Ran,* Washington University, St. Louis

AC-ThP-6 Development of a Novel Aerogel-Assisted Ssntd for Automated Fissile Isotope Identification, *Rami Babayew, Yaacov Yehuda-Zada,* Nuclear Research Center Negev, Israel*; Galit Bar,* Soreq Nuclear Research Center, Israel*; Noam Elgad,* Nuclear Research Center Negev, Israel*; Danny Dayan,* Ben Gurion University Be'er Sheva, Israel*; Jan Lorincik,* Centre Řež, Czech Republic*; Itzhak Orion,* Ben Gurion University Be'er Sheva, Israel*; Shay Dadon,* Nuclear Research Center Negev, Israel*; Aryeh Weiss,* Bar Ilan University, Israel*; Galit Katarivas Levy,* ***Itzhak Halevy***, Ben Gurion University Be'er Sheva, Israel

AC-ThP-7 Cross-Model Validation of Raw Stopping-Power Data forRobust Automated Fission Track Analysis, *Danny Dayan, Rami Babayew, Yaacov Yehuda-Zada,* Unit of Nuclear Engineering, Faculty of Engineering Sciences, Ben Gurion University, Israel*; Galit Bar,* Department of Solid-State Physics, Soreq Nuclear Research Center, Yavne, Israel*; Noam Elgad,* Unit of Nuclear Engineering, Faculty of Engineering Sciences, Ben Gurion University, Israel*; Jan Lorincik,* 4 Nuclear Fuel Cycle Department, Centre Řež, Hlavní 130, Řež 250 68, Husinec, Czech Republic*; Itzhak Orion,* Unit of Nuclear Engineering, Faculty of Engineering Sciences, Ben Gurion University, Israel*; Shay Dadon,* Engineering Department, Nuclear Research Center Negev, Beer-Sheva, Israel*; Aryeh Weiss,* Bar Ilan University, Ramat Gan P.O.B. 90000 5290002 Israel, Italy*; Galit Katarivas Levy,* Dept. of Biomedical Engineering, Ben-Gurion University, Beer-Sheva, Israel*;* ***Itzhak Halevy***, Unit of Nuclear Engineering, Faculty of Engineering Sciences, Ben Gurion University, Israel

Advanced Microelectronic Materials and Devices Mini-Symposium
Room Ballroom A - Session AM+EM+TF-ThP
Advanced Microelectronic Materials and Devices Mini-Symposium Poster Session
4:30 – 7:00 pm

AM+EM+TF-ThP-1 AlScN Ferroelectric Diode-based Non-volatile Memory on $TaSi_2$ for Harsh-Environment Computing, ***Nghi Pham***, University of Pennsylvania, Viet Nam*; Dhiren Pradhan,* Agni Semiconductor*; Xindi Yang, Ravali Gudavalli, Deep Jariwala,* University of Pennsylvania

AM+EM+TF-ThP-2 Flexible Ag and Cu Pattern Films: A Comparative Study on Conductivity, Adhesion, and Mechanical Stability, ***Seonhee Jang***, *Samuel Goutierrez, Kenneth Lathrum,* University of Louisiana

AM+EM+TF-ThP-3 Study of Acoustoelectric Interactions in α-In_2Se_3 - $LiNbO_3$ Heterostructure for Efficient RF Communication System, ***Marzia Sultana (Graduate Student)***, *Jackson Anderson,* University of Vermont

AM+EM+TF-ThP-5 Nanoscale Structural and Chemical Characterization of AlxTi1-xN Wurtzite Thin Films, ***Sai Saswat Tripathy***, *Elizabeth Dickey,* Carnegie Mellon University; *Ian Mercer, Jon-Paul Maria,* Penn State University

AM+EM+TF-ThP-6 IGZO Thermal ALD application in 3D High Aspect Ratio (HAR) Features: Conformality and Elemental Uniformity Studies, *Adarsh Rajashekhar,* ***Fei Zhou,*** Sandisk Technologies; *Ritwik Bhatia, Ganesh Sundaram,* Veeco Instruments; *Senaka Kanakamedala,* Sandisk Technologies

AM+EM+TF-ThP-7 Design and Thermomechanical Limits of a Polysilicon Micromotor, ***Siddhant Kaushik,*** University of California at Berkeley

Advanced Packaging
Room Ballroom A - Session PK-ThP
Advanced Packaging Poster Session
4:30 – 7:00 pm

PK-ThP-1 A Numerical Investigation of Acoustic Void Detection in Through Silicon Vias using the Rayleigh-Ritz Method, ***George Antonelli,*** Antonelli Research & Technology; *Shiva Mudide,* Massachusetts Institute of Technology

Advanced Surface Engineering
Room Ballroom A - Session SE-ThP
Advanced Surface Engineering Poster Session
4:30pm

SE-ThP-1 PLD or Magnetron Sputtering: Which to Choose for Functional Coatings?, ***Esteban Broitman***, *Sven Kelling, Rickmer Kose,* SENTYS

SE-ThP-5 Synthesis and Dehydrogenation of Thin Film Metal Hydride for Hydrogen Storage, *Vladimir Gorokhovsky,* ***Grace Owens,*** University of Colorado at Boulder; *Paul Smith,* Plasma Kinetics Corporation

SE-ThP-6 Photodegradable Thin Films for Dust Mitigation, ***Kira Sand (Undergraduate)***, *David Allred,* Brigham Young University

SE-ThP-9 Heterointerface-Induced Charge Transfer Kinetics in Sputtered $Mote_2$-Mos_2 Nanocomposite for High-Performance Ambient No_2 Detection, *Sonika Kodan,* ***Ramesh Chandra,*** Indian Institute of Technology Roorkee, India

Advances in Battery Engineering, Interface Design, and Characterization Mini-Symposium
Room Ballroom A - Session BT+AS+CA+TF-ThP
Advances in Battery Engineering, Interface Design, and Characterization Mini-Symposium Poster Session
4:30 – 7:00 pm

BT+AS+CA+TF-ThP-1 Orientated Deposition of Li2S for Fast-Charging Lithium-Sulfur Batteries, *Jeong-Hoon Yu,* ***Jong-Sung Yu,*** DGIST, Republic of Korea

BT+AS+CA+TF-ThP-2 High Voltage Li-ion Battery Cathodes: Surface Fluorination and Transition Metal Doping of Lithium Cobalt Oxide (LCO), ***Falak Sher (Graduate Student)***, *Carlos Yescas, Timothy Spila, Arghya Patra, Ben Zahiri, Paul Braun,* University of Illinois at Urbana-Champaign, USA

BT+AS+CA+TF-ThP-4 Fabrication and Characterization of the Thin Film Solid State Li and Na Ion Batteries, ***SATILMIS BUDAK***, *Zhigang Xiao, Mebougna Drabo, Aschalew Kassu, Richard Lagle, Jamar Dozier, Kendall Montgomery, Kelvin Perkins,* Alabama A&M University

Advances in EUV Lithography
Room Ballroom A - Session EUV-ThP
Advances in EUV Lithography Poster Session
4:30 – 7:00 pm

EUV-ThP-2 Understanding the Initial Deposition and Etching of Tin in an Extreme Ultraviolet (EUV) Source, ***Nathan Bartlett (Graduate Student)***, *Jameson Crouse, Andrew Herschberg, Emily Greene, Jaime Robertson, Lucia Suarez Heredero, Marisol Velapatino, Karl Vu,* University of Illinois at Urbana-Champaign; *Niels Braaksma, Sergio Ferraris,* ASML; *David Ruzic,* University of Illinois at Urbana-Champaign

EUV-ThP-3 Development of Mass Limited Targets for Enabling Fundamental Studies of Next Generation of EUV Lithography, ***Ajay Karakoti***, *Peipei Wang, Mathew Polek, Tyler Ray, Sivanandan Harilal,* Pacific Northwest National Laboratory

EUV-ThP-6 Investigation of Cold Spitted Sn Particle Transport in a Hydrogen Plasma, ***Jaime Robertson (Graduate Student)***, University of Illinois at Urbana-Champaign

EUV-ThP-7 Open-Use, Synchrotron-Based EUV Exposure/Characterization System at LLS, *Ali Parastesh, Anthony Engler,* ***Phillip Sprunger,*** Louisiana State University

EUV-ThP-8 Development and Performance of a University-Scale EUV Lithography Source, *Dren Qerimi,* University of Illinois; ***Sebastian Rojas Barragan (Graduate Student)***, University of Illinois at Urbana-Champaign

EUV-ThP-9 A Computational Molecular Framework to Investigate EUV Lithography Photoresist Sensitivity: Poly(Pthaladyhede) and Poly(Methyl Methacrylate) Degradation Study, ***Amrutha Raghu***, Louisiana State University; *Tianyi Wang,* Lousiana State University; *Revati Kumar,* Louisiana State University

EUV-ThP-10 Accelerated Evaluation of Blister Formation in EUV Photomasks through Control of Hydrogen Ion and Radical Flux, ***Takayoshi Tsutsumi***, Nagoya University, Japan; *Wataru Nishida, Yukihiro Matsumoto,* AGC Inc., Japan; *Kenji Ishikawa, Masaru Hori,* Nagoya University, Japan

AI/ML/Autonomous Experimentation for Thin Films Processing
Room Ballroom A - Session AIML-ThP
AI/ML/Autonomous Experimentation for Thin Films Processing Poster Session
4:30 – 7:00 pm

AIML-ThP-1 Ai-Based Real-Time Ashing Rate Estimation and Anomaly Detection Using Equipment Sensor and OES Data in Semiconductor Manufacturing, *Taekyung Ha,* ***You Tack Suh***, *Hyegyo Song,* PSK, Republic of Korea

AIML-ThP-4 Role of Oxide Phase and Surface Facets on Self-Limiting Thermal Atomic Layer Etch in High-k Oxides , ***Michael Nolan***, *Rita Mullins,* Tyndall National Institute, University College Cork, Ireland

AIML-ThP-5 Automated Experimentation Reveals Co-Spacer Design Rules for Targeted Phase Selection in Quasi-2D Halide Perovskites, ***Elham Foadian (Graduate Student)***, *Mahshid Ahmadi,* University of Tennessee Knoxville

AIML-ThP-8 Small Science Agentic Models for Automated Perovskite Thin Film Exploration via Monte Carlo Decision Trees and Delayed Bayesian Optimization Feedback, *Elham Foadian,* ***Sheryl Sanchez***, *Mahshid Ahmadi,* University of Tennessee Knoxville

AIML-ThP-9 Revolutionizing Sem Image Analysis: Deep Learning vs. Classical Restoration for Enhancement and Segmentation, ***Amanda Georgina Nieto Sánchez (Graduate Student)***, Universidad Anáhuac México; *Leon Hamui,* School of Engineering, Universidad Anáhuac México

Applied Surface Science
Room Ballroom A - Session AS-ThP
Applied Surface Science Poster Session
4:30 – 7:00 pm

AS-ThP-1 Scratching at the Surface of Leadership, ***Brian Strohmeier***, Surface Science Solutions, LLC

AS-ThP-3 Sample Preparation Checklists and Instrument Parameter Tables: Newly Published Aids to Reliable and Reproducible Surface Analysis Data, Paper Reviewing, and Information Reporting, ***Don Baer***, Pacific Northwest National Laboratory; *Linda Dake,* retired

AS-ThP-4 Atmosphere-Controlled Surface Engineering of $CuRh_2O_4$ Nanofibers For Alkaline Water Oxidation, ***Namhee Kim (Graduate Student)***, *Hyeon Gyeong Jeon, Myung Hwa Kim,* Ewha Womans University, Republic of Korea*; Dasol Jin,* Jeonbuk National University, Republic of Korea

AS-ThP-5 Surface Chemical Characteristics of Electrospun Multicomponent Rutile Oxide Nanofibers for pH-Universal Oxygen Evolution Reactions, ***HyeonGyeong Jeon (Graduate Student)***, *Namhee Kim, Youngmi Lee, Myung Hwa Kim,* Ewha Womans University, Republic of Korea

AS-ThP-6 Industrial Problem Solving with Low-Cost ToF-SIMS, *Nick Long, Torsten Henkel,* SAI, UK*;* ***Aidan Harrison****, Silverio Iacono,* SAI Americas

AS-ThP-7 Analysis of Interfaces by Soft and Hard X-ray Photoemission, ***Jia Lu****, Jennifer Mann, Sarah Zaccarine, Norb Biderman, Cesar Saucedo, Kateryna Artyushkova,* Physical Electronics USA

AS-ThP-9 Probing Energy Level Alignments in NFA Organic Solar Cells: Combined UPS and LEIPS Study on Blend Films, ***Yongsup Park****, Seunggu Lee,* Kyung Hee University, Republic of Korea

AS-ThP-10 Tuning Topography and Morphology of Mg2-MOF-74 Metal-Organic-Framework to Study Optimization of Carbon Capture Capabilities, ***Corbyn Stosich (Graduate Student)***, *Sean Lubner,* Boston University

AS-ThP-11 XPS Analysis of Plasma Exposed TiB2 and ZrB2 Substrates, ***Harry Meyer****, Lauren Nuckols, Chad Parrish,* Oak Ridge National Laboratory

AS-ThP-12 Thin-Film Characterization Using the Surface Analysis Toolbox: From Data to Answers, ***Jonathan Counsell****,* Kratos Analytical Limited, UK

AS-ThP-13 Cryo-XPS of Nanoparticles. Vitrification... Where Speed is Everything!, ***Chris Moffitt****,* Kratos Analytical Inc.*; Liam Soomary,* kratos Analytical Inc, UK

AS-ThP-14 Surface and Bulk Characterization of Organic Macrocyclic Coordination Compounds Using XPS and UPS Techniques, ***David Surman****,* Kratos Analytical Inc.

AS-ThP-15 Automatically Determining the Cutoff of the Transfer Function in Reciprocal Space for the Fourier Denoising of X-ray Photoelectron Spectroscopy Data, ***Tyler B. Andersen (Undergraduate)***, *Maxsym Gerashchenko, David E. Aspnes, Matthew R. Linford,* Brigham Young University

AS-ThP-18 ASSD Student Award Finalist Presentation: Sen-Banerjee (SB) Number as a Unified Scaling Parameter for Deviant Density Enhancement in Nanofluids, ***Anusree Sen (Graduate Student)***[1]*, Debjyoti Banerjee,* Texas A&M University

AS-ThP-20 A Priori designed NiAg Single-Atom Alloys for Selective Epoxidation Reactions, ***E. Charles H. Sykes****,* Tufts University

Atomic Scale Processing Mini-Symposium
Room Ballroom A - Session AP+EL+PS+TF-ThP
Atomic Scale Processing Mini-Symposium Poster Session
4:30 – 7:00 pm

AP+EL+PS+TF-ThP-1 Design of Gas Flow Field for a Slip Flow ALD Processing Chamber, ***Kyung-Hoon Yoo****,* Korea Institute of Industrial Technology, Republic of Korea*; Geun-Soo Song,* The KUMYOUNG Inc., Republic of Korea*; Chun-Sik Kim,* TNG Co., Republic of Korea*; Jun-Young Hwang, Sang-Ho Lee, Jeong-Jin Kang, Shin-Ae Song, Kyung-Tae Kang,* Korea Institute of Industrial Technology, Republic of Korea*; Hyeong-Cheol Lee,* Hanyang University, Republic of Korea*; Kun-Hyung Lee,* SAMSUNG DISPLAY, Republic of Korea

AP+EL+PS+TF-ThP-2 Nucleation and Evolution of Dislocations and Extended Faults in Complex Perovskite Oxides, ***Rishi Raj (Graduate Student)***, *K. Andre Mkhoyan,* University of Minnesota, USA

AP+EL+PS+TF-ThP-4 Low Temperature Atomic Layer Deposition of ZnO for Optoelectronic Applications, ***Anil Yadav (Graduate Student)***, *Aditya Sadhanala,* Indian Institute of Science, India

AP+EL+PS+TF-ThP-5 Oxidation-Assisted SF_6 Remote Plasma Etching for Surface Roughness Reduction of TiN, ***Min Kyun Sohn****, Subin Heo, Seong Hyun Lee, Sun Kyu Jung, Jeong Woo Park, Dongwoo Suh,* Electronics and Telecommunications Research Institute, Republic of Korea

AP+EL+PS+TF-ThP-6 Development of in-Situ Laser Diagnostics Measurements of CH_3 Radical Concentrations for Study of Thin Film Depositions Using Organo-Metallic Precursors, ***Mruthunjaya Uddi****,* Advanced Cooling Technologies Inc.*; Prawal Agarwal, Devon Jensen,* ACT*; Anatoli Morozov,* Princeton University*; Arthur Dogariu,* Texas A&M University

AP+EL+PS+TF-ThP-7 Hybrid Electrospun ZnO Nanofiber and ALD ZnO Electron Transport Layers for Near-Infrared Organic Photodiodes, ***Anna Leonard (Graduate Student)***, *Neha Chaturvedi, Veena Misra,* North Carolina State University

AP+EL+PS+TF-ThP-8 Site-Specific and Temperature-Dependent Hydration of Faceted Hematite, ***Asare Dua (Graduate Student)***, Illinois Institute of Technology*; Luke Pretzie,* Purdue University*; Ashley Bielinski,* Argonne National Laboratory*; Yue Li,* Argonne National Lab*; Valentine Novosad, Cong Liu, Alex Martinson,* Argonne National Laboratory*; Adam Hock,* Illinois Institute of Technology

AP+EL+PS+TF-ThP-9 Impact of TiN Metal Gate Deposition Process on Oxygen-Vacancy-Related Defects and Electrical Characteristics of HfO2-Based Gate Stacks, *Sangho Lee*, *Seonghwan Shin,* ***Seong Hyun Lee****, Gustavo Panama, Sun Kyu Jung, Minkyun Sohn, Min-A Park, Dongwoo Suh,* Electronics and Telecommunications Research Institute (ETRI), Republic of Korea

AP+EL+PS+TF-ThP-10 Understanding the Influence of Plasma Surface Interactions using MOS Capacitors, ***Emily Frederick (Graduate Student)***, University of Central Florida*; John Murphy, Glenn Jernigan, David Boris, Scott Walton,* U.S. Naval Research Laboratory

Biomaterial Interfaces
Room Ballroom A - Session BI-ThP
Biomaterial Interfaces Poster Session
4:30 – 7:00 pm

BI-ThP-1 Interactions of KSCN with Phospholipid Monolayers Studied by Sum Frequency Generation and X-Ray Fluorescence, ***Sadia Afroz (Graduate Student)***, Pennsylvania State University*; Bastian Mueller, Emanuel Schneck,* TU Darmstadt, Germany*; Paul S. Cremer,* Pennsylvania State University

BI-ThP-2 The Neurotoxin Vipoxin Induces Changes in Mechanical Properties of Breast Epithelial Cells, *William Linthicum,* Oxford Instruments*; Qi Wen,* ***Nancy Burnham****,* Worcester Polytechnic Institute*; Svetla Petrova, Konstantin Balashev,* Sofia University, Bulgaria

BI-ThP-5 Pulsed Plasma Surface Functionalized Nanosilver for Gene Delivery, ***Ajinkya Trimukhe****,* University of Milan Bicocca, Italy*; Prasad Pofali,* Pravara Institute of Medical Sciences, India*; Amogh Vaidya,* University of Texas Southwestern Medical Center*; Uday Koli, Prajakta Dandekar, Rajendrasing Deshmukh, Ratnesh Jain,* Institute of Chemical Technology, India

BI-ThP-7 Physics–Driven Mechanisms Governing the Pharmacokinetics and Immune Fate of Gold Nanoparticles: The ADIE Framework Perspective, ***Bashiru Sodipo****,* Kaduna State University, Nigeria*; Hafsah Oyedokun,* Kaduna University, Nigeria

BI-ThP-10 Decoding Antifouling Failure: How Primary Microfouling Communities Compromise Biocide Release, ***Kailey Richard****,* National Research Council Research Associateship Program at US Naval Research Laboratory*; Kenan Fears,* Naval Research Laboratory

Chemical Analysis and Imaging at Interfaces
Room Ballroom A - Session CA-ThP
Chemical Analysis and Imaging at Interfaces Poster Session
4:30pm

CA-ThP-2 Enhanced Nanoprojectile Secondary Ion Mass Spectrometry (NP-SIMS): Correlation Among Spatially Resolved Secondary Ions, ***Pierre Hirchenhahn****, Stanislav Verkhoturov,* Texas A&M University*; Michael J. Eller,* University of Mississippi*; Emile A. Schweikert,* Texas A&M University

CA-ThP-3 Studying Neutron Irradiation Effects on Lithium Aluminate Pellets Using Tof-Sims, ***Xiao-Ying Yu****, Jiyoung Son,* Oak Ridge National Laboratory*; Tanguy Terlier,* Rice University*; Gabriel Parker,* Oak Ridge National Laboratory*; David Senor,* Pacific Northwest National Laboratory

CA-ThP-4 In-Plasma XPS: A New Operando Metrology For Process Development and Control, ***Andrei Kolmakov****,* NIST

CA-ThP-5 A High-Throughput Multimodal Workflow for Characterizing Soil Mineral–Organic Interfaces with XPS, FTIR, SEM/EDS and ToF-SIMS, ***Vaithiyalingam Shutthanandan****, Ajay Karakoti,* Pacific Northwest National Laboratory*; Catherine Pettinger,* University of Wisconsin-Madison*; Kavin Thangaraj,* Washington State University*; Odeta Qafoku, Mark Engelhard, Bhuvana Modachur Sivakumar, Zihua Zhu, Ravi Kukkadapu,* Pacific Northwest National Laboratory*; Erica Majumder,* University of Wisconsin - Madison

CA-ThP-6 Influence of Surface Preparation on Au/P-Type Hgcdte Interfaces Investigated by Xps Depth Profiling, ***Alexandra Colas--Reuillon (Graduate Student)***, *Clément Lobre, Eugénie Martinez, Steven Bel, Marc Veillerot, Sarah Petit, Olivier Gravrand,* CEA-Leti, France

[1] **ASSD Student Award Finalist**

CA-ThP-7 Multi-modal analysis of NIST standard Iron Ore for establishment of the LIOS database, ***Gabriel Parker***, *Mackenzie Savage,* Oak Ridge National Laboratory, USA*; Michael Mulholland,* Idaho National Laboratory*; Xiao-Ying Yu,* Oak Ridge National Laboratory, USA

CA-ThP-10 ToF-SIMS Analysis of Surface Deposited Reaction Species in Selectively Passivized MXene Catalysts, ***Tobias Misicko (Graduate Student)***, *Gabriel Parker,* Oak Ridge National Laboratory, USA*; Yang Xiao,* Louisiana Tech University*; Xiao-Ying Yu,* Oak Ridge National Laboratory, USA

CA-ThP-11 Multimodal Raman and Luminescence Techniques for Defect Characterization in Wide Band Gap Semiconductors., ***Praveena Manimunda***, HORIBA

CA-ThP-12 High-Intensity HAXPES Brought to Your Lab: Deepcore-X, ***Patrick Lomker***, Scienta Omicron, Sweden*; Daniel A Beaton,* Scienta Omicron*; Marcus Lundwall,* Scienta Omicron, Sweden

Electronic Materials and Photonics
Room Ballroom A - Session EM-ThP
Electronic Materials and Photonics Poster Session
4:30 – 7:00 pm

EM-ThP-1 A Comparison between Nbmotaw Refractory High-Entropy Alloy (HEA) Thin Films Fabricated by Sputtering from a Single Pre-Alloyed Target and from Individual Elemental Targets (Co-Sputtering), ***Nafisa Tabassum (Graduate Student)***, Old Dominion University

EM-ThP-2 Localized Dielectric Breakdown in Monoclinic HfO_2 MOS Capacitors on Non-Epitaxial 4H-SiC, *Melissa Mederos Vidal, Rodrigo Reigota César, Audrey Roberto Silva, Jacilene M. Medeiros, Renato Massaroto Beraldo, Marcos Vinicius Puydinger dos Santos,* ***José Alexandre Diniz***, University of Campinas (UNICAMP), Brazil

EM-ThP-3 Expert-Feedback-Driven Autonomous Experimentation for Nanoscale Discovery, ***Yongtao Liu***, Oak Ridge National Laboratory

EM-ThP-4 Cycling–Driven Non–Monotonic TER Dynamics in HZO Ferroelectric Tunnel Junctions: Competing Wake–Up, Fatigue, and Memory–Window Collapse Mechanisms, ***Alexander Blevins,*** *Sanghyun Lee,* University of Kentucky*; M. David Henry, Samantha Jaszewski,* Sandia National Laboratories, USA

EM-ThP-6 ErAs/Semiconductor Nanocomposites for Polarization Controlled Multicolor Terahertz Emitters, ***Angelique Gordon (Graduate Student)***, *Shreya Shrestha, Mohammad Tomal Hossain, Matthew Doty, Lars Gundlach, Xi Wang, Benjamin Jungfleisch, Joshua Zide,* University of Delaware

EM-ThP-7 Influence of Fluorine-Containing Surface Ligands on the Optoelectronic Behavior of NiO Thin Films, ***Sanuthmi Dunuwila (Graduate Student)***, *Chaiwarut Santiwipharat,* University of Delaware*; Zonglun Li, Alexander A. Shestopalov,* University of Rochester*; Ujjwal K. Das, Andrew V. Teplyakov,* University of Delaware

EM-ThP-8 Ultraviolet-C (UVC) Irradiation as Post-Treatment for Property Modification of Hydrogenated Amorphous Carbon (a-C:H) Thin Films, ***Kenneth Lathrum (Graduate Student)***, *Jhonatan Gil Romero, Seonhee Jang,* University of Louisiana

EM-ThP-9 Effect of Ge Incorporation on Ti/Al-Based Ohmic Contacts for N-Polar GaN HEMTs on SiC, ***Alejandro Perez (Graduate Student)***, University of Illinois - Chicago

EM-ThP-10 Plasma–Enhanced ALD of Ferroelectric $Al_{1-x}Sc_xN$ Under Ultrahigh–Purity Conditions, ***Gilbert B. Rayner Jr.***, *Noel O'Toole, Nathaniel Nelson,* Kurt J. Lesker Company*; Bangzhi Liu,* The Pennsylvania State University*; Jeffrey Shallenberger,* The pennsylvania State University*; Gregory Muha, Piush Behera, Suraj Cheema,* Massachusetts Institute of Technology*; Blaine Johs,* Film Sense*; Nastazia Moshirfatemi,* General Technical Services, LLC*; Daniel Drury, Brendan M. Hanrahan,* Army Research Directorate, DEVCOM Army Research Laboratory*; Glen R. Fox,* Fox Materials Consulting, LLC*; Nicholas A. Strnad,* Army Research Directorate, DEVCOM Army Research Laboratory

EM-ThP-11 Multistate Stability of Ferroelectric Hzo FTJs in Gamma Radiation, ***Samantha Jaszewski***, Sandia National Laboratories*; Megan Lenox,* University of Virginia, USA*; Benjamin Aronson,* University of Virginia*; Jon Ihelfeld,* University of Virginia, USA*; M. David Henry,* Sandia National Laboratories, USA

EM-ThP-12 Aromatic Thiol Self-Assembled Monolayers as Blocking Layers on Copper for Area-Selective ALD of Al_2O_3 and HfO_2, ***Andrew Molder (Graduate Student)***, University of Missouri - Kansas City*; Sharmistha Bhattacharjeeb, Vamseedhara Vemuri, Henry Price,* Lehigh University*; Raja Bale, Nathan Oyler,* University of Missouri-Kansas City*; Nicholas Strandwitz,* Lehigh University*; Michelle Paquette,* University of Missouri - Kansas City

EM-ThP-13 Bipolar Nanocomposite Semiconductors Produced by Combining Atomic Layer Deposition and Pressure-Assisted Sintering, ***Benjamin Greenberg***, *Kevin Anderson, Alan Jacobs, Zoey Warecki, Todd Brintlinger, Chase Ellis, Joseph Prestigiacomo, Eric Patterson, Austin Cendejas, James Wollmershauser, Boris Feigelson,* U.S. Naval Research Laboratory; *Dylan Jacobs,* Naval Research Enterprise Internship Program

Light Source Enabled Science
Room Ballroom A - Session LS-ThP
Light Source Enabled Science Poster Session
4:30 – 7:00 pm

LS-ThP-1 Ultrafast Science at the NSF-NeXUS Facility, ***Seth Shields***, *John Beetar,* Ohio State University*; Conner Dykstra,* ohio state University*; Joohyung Park,* ohio State University*; TJ Ronningen,* ohio state University*; Robert Baker, Lou DiMauro, Jay Gupta, Roland Kawakami, Claudia Turro,* Ohio State University

LS-ThP-2 Operando Study of CO_2 Adsorption on PtGa (111) Surface, *Subin Jang,* Gwangju Institute of Science and Technology, Republic of Korea*; Minsik Seo,* Nanyang Technological University, Singapore*; Hyunsuk Shin,* Samsung Electronics, Republic of Korea*; Dongwoo Kim,* KBSI, Republic of Korea*; Kyungmin Kim,* Gwangju Institute of Science and Technology, Republic of Korea*; Hojoon Lim,* Myongji University, Republic of Korea*; Jongkeun Jung,* Korea Institute of Science and Technology, Republic of Korea*; Dong Junf,* Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea*; Sung Yoo,* Korea Institute of Science and Technology, Republic of Korea*; Jeongjin Kim,* Pohang Accelerator Laboratory, Republic of Korea*; Lenart Dudy,* Synchrotron SOLEIL, France*; Jean-Jacques Gallet, Fabrice Bournel,* Sorbonne Université, France*;* ***Bongjin Simon Mun,*** Gwangju Institute of Science and Technology, Republic of Korea

LS-ThP-3 Investigation Into Polymer Charge Localization with Soft X-Ray Absorption Spectroscopy, ***Jonathan Thurston***, University of Colorado at Boulder*; Shuya Li,* National Laboratory of the Rockies*; Qi Sun,* University of Arizona*; Dennis Nordlund,* Stanford Institute for Materials and Energy Sciences, SLAC National Accelerator Laboratory*; Luis Kitsu Iglesias, Collin Sindt,* University of Colorado at Boulder*; Santosh Kumar, David Grinter,* Diamond Light Source, UK*; Hong Li,* University of Arizona*; Ann Greenaway, Elisa Miller,* National Laboratory of the Rockies*; Michael Toney,* University of Colorado

LS-ThP-4 Bridging Concept and Application: An LLM-Assisted Machine Learning Software Pipeline for Automated ARPES Analysis at MAESTRO, ***Sandy Adhitia Ekahana***, Carnegie Mellon University*; Hendrik Santoso Sugiarto,* Calvin Institute of Technology, Indonesia*; Chris Jozwiak, Aaron Bostwick, Eli Rotenberg,* ALS-LBNL*; Jyoti Katoch,* Carnegie Mellon University

LS-ThP-5 Soft X-rays, Hard Questions: Identifying Band Character in Quantum Materials with ARPES, ***Jessica McChensey***, *Fanny Rodolakis,* Argonne National Laboratory, USA

LS-ThP-6 Palladium Nanofoams as a Framework for Hydrogen Storage, *Alisson Steffli Thill,* Universidade Federal do Rio Grande do Sul, Brazil*;* ***Slavomir Nemsak***, Advanced Light Source, Lawrence Berkeley National Laboratory*; Fabiano Bernardi,* Universidade Federal do Rio Grande do Sul, Brazil

LS-ThP-7 Strain and Electronic Correlations in Metal-Insulator Transition of $CaVO_3$ Thin Films, ***Amitayush Jha Thakur***, Argonne National Laboratory, India

LS-ThP-8 A NEXAFS Reference Library for Metal Compounds, *Matthijs A. van Spronsen, David C. Grinter, Pilar Ferrer,* ***Georg Held***, Diamond Light Source, UK

Magnetic Interfaces and Nanostructures
Room Ballroom A - Session MI-ThP
Magnetic Interfaces and Nanostructures Poster Session
4:30 – 7:00 pm

MI-ThP-1 Wilson Loop as a Tool to Investigate Chirality-Induced Spin Selectivity: Role of Vibrations and Multiple Channels, ***Leonardo Celada (Graduate Student)***, *D. K. Andrea Phan Huu, Alessandro Chiesa, Paolo Santini, Luca Griguolo, Stefano Carretta,* Università degli studi di Parma, Italy

MI-ThP-4 Early-Stage Experimental Training in Magnetism: A Hands-On Freshman Research Course as a Gateway to Advanced Magnetic Materials, ***Mikel Holcomb***, West Virginia University*; Femi Akinrinola,* West Virginia University, USA*; Robbyn Trappen, Seth Woodwyk, Ivan Gray, Tap Raj Bhandari, Jeremy Fanelli, Dorian Davis, Nethmi Kankanamge, John Stewart,* West Virginia University

Manufacturing Science & Technology
Room Ballroom A - Session MS-ThP
Manufacturing Science & Technology Poster Session
4:30 – 7:00 pm

MS-ThP-1 Landing-Pad Geometry Engineering for Contact-Access Margin in Scaled Semiconductor Manufacturing, ***Dong Kyun Lim (Graduate Student)***, Department of Semiconductor and Display Engineering, Sungkyunkwan University (SKKU), Suwon, Republic of Korea; *Jin-Hong Park,* Sungkyunkwan University, Republic of Korea

MS-ThP-2 Design of Ultra-Low Flow Microfluidic Peristaltic Pump for Neural Probe Based Drug Delivery with Refillable Reservoir, ***Haowei Ma (Graduate Student)***, *Allison Hess-Dunning, Melinda Lake-Speers,* Case Western Reserve University

MS-ThP-3 Distal Electrofabrication of Chitosan Membranes on Printer Paper: A New Manufacturing Paradigm, ***Phuc Long Duong (Graduate Student)***, *Xiaolong Luo,* Catholic University of America

Materials and Innovations for Fusion Energy
Room Ballroom A - Session FUS-ThP
Materials and Innovations for Fusion Energy Poster Session
4:30 – 7:00 pm

FUS-ThP-1 Experiment Setup of a Testbed Facility to Characterize Tritium Storage Materials, ***Simon Niemes***, *David Beisiegel, Nicolas Bekris, Noah Ellenbogen, Robin Größle, Ralph Lietzow, Immanuel Müller, Florian Priester,* Karlsruhe Institute of Technology (KIT), Germany; *Tim Teichmann,* Kyoto Fusioneering (KF), Germany

FUS-ThP-3 Development of a Method for Hydrogen Species Analysis in Fusion Breeder Materials Using ICP-MS, ***Clemence Mont***, UKAEA, UK

FUS-ThP-4 the Actively Pumped Open-Surface Lithium LOop (APOLLO) – a Liquid Lithium Plasma Facing Component Technology Testbed, ***Brady Moore (Graduate Student)***, University of Illinois Urbana-Champaign; *Daniel O'Dea,* University of Illinois at Urbana Champaign; *Zachary Nordan, David Ruzic,* University of Illinois at Urbana-Champaign

FUS-ThP-7 An Analysis of Radiation Tolerance of Parylene Coatings for Nuclear Energy Applications, ***Steven Larson***, *Alex Mings, Joshua Young, Ronald Goeke,* Sandia National Laboratories

FUS-ThP-9 Investigating Gaseous Impurity Production in a Baked UHV System, ***Gabriel Wilber***, Tritium Solutions, Inc.; *E. Koukina, K. McCormack, A. Knaian,* Acceleron Fusion; *W.T. Shmayda,* Tritium Solutions, Inc.

Multifunctional and Hybrid Microsystems
Room Ballroom A - Session MC-ThP
Multifunctional and Hybrid Microsystems Poster Session
4:30 – 7:00 pm

MC-ThP-1 Integrated Magnetic Bio-MEMS for High-Speed, Trajectory-Based Microparticle Classification in Laminate Microfluidic Channels, *Muhammad Tahir,* ***Umer Hassan***, Rutgers, The State University of New Jersey

MC-ThP-2 Internal Friction, Creep, and Mechanical Behavior of Zr-Based Metallic Glass Thin Films for MEMS/NEMS Applications, *KAI-AN YANG, Yan-Wei Chang,* National Chung Hsing University, Taiwan; *Hsiang-Yu Hsieh, Chen-Jia Wang,* National Chung Hsing University, Taiwan; *Tra Anh Khoa Nguyen,* ***Ming-Tzer Lin***, National Chung Hsing University, Taiwan

MC-ThP-3 Influence of the Structural Regions of a Si_3N_4 Membrane Window on the CMOS Image Sensor Signal, ***Kamil Baranowski (Graduate Student)***, *Michał Krysztof, Michał Zychla,* Wroclaw University of Science and Technology, Poland; *Rupert Schreiner, Matthias Hausladen,* Ostbayerische Technische Hochschule (OTH) Regensburg, Germany; *Mathias Bartl,* Ostbayerische Technische Hochschule (OTH) Regensbur, Germany; *Alexandr Knápek,* Institute of Scientific Instruments of the Czech Academy of Sciences, Czechia

MC-ThP-4 Development of a Smart Wearable for Tracking Vitamin D Levels for Preventative Healthcare, ***Mason Wright (Graduate Student)***, *Sushma Kotru,* University of Alabama

Nanoscale Science and Technology
Room Ballroom A - Session NS-ThP
Nanoscale Science and Technology Poster Session
4:30 – 7:00 pm

NS-ThP-1 Improving Mechanical Integrity in Wearable Solid-Carbon Microneedle Sensors, ***Nicolas Manning (Undergraduate)***, Commonwealth University of Pennsylvania - Lock Haven

NS-ThP-2 Single-Molecule Spectro-Microscopic Visualization of Surface-Supported Configurational Flexibility and Intramolecular Transformations, ***Soumyajit Rajak (Graduate Student)***, *Nan Jiang,* University of Illinois, Chicago

NS-ThP-3 Intrinsic Stability of Rhodium Nanoclusters on HOPG: An Atomic-Scale Investigation of Heat Treatment and CO Adsorption, ***Charbel Tawny (Graduate Student)***, *Maxwell Gillum, Gallage KPA Ariyaratne, Mausumi Mahapatra,* Loyola University Chicago

NS-ThP-4 Characterization and Analysis of Rhodium Oxide Nanoparticles on HOPG Surface, ***Gallage KPA Ariyaratne (Graduate Student)***, *Maxwell Gillum,* Loyola University Chicago; *Charbel Tawny,* loyola University Chicago; *Mausumi Mahapatra,* Loyola University Chicago

NS-ThP-5 Spatiotemporal Defect Engineering of Charge Transport in TiO2 by Time-Resolved Atomic Force Microscopy, *Nuray Basaran, Mohammad Safikhani-Mahmoudi,* École de technologie supérieure, University of Quebec, Canada; ***Bugrahan Guner***, Yale University; *Omur Dagdeviren,* École de technologie supérieure, University of Quebec, Canada

NS-ThP-6 Ce-Doped TiO_2 Nanoparticles from Commercial P25 and Flame Spray Pyrolysis Synthesis Routes for Enhanced Visible-Light Photocatalysis, *Selda Topcu Sendogdular,* Stony Brook University, Turkey; ***Ilker Keseroglu (Undergraduate)***, *Pelagia-Iren Gouma,* The Ohio State University

NS-ThP-7 Roll-to-Plate Nanoimprint Lithography for Fabrication of Biomimetic Structures, ***Daniela Topasna***, *Juan Gonzalez, Sebastian Ziegler,* Virginia Military Institute

NS-ThP-8 Nanoscale Surface and Interface Engineering of Asymmetric Electrode Screen Length for Advanced Nanoscale Ferroelectric Devices, ***Philip (Sanghyun) Lee***, University of Kentucky; *Kent Price,* Morehead State University; *M. David Henry,* Sandia National Laboratories, USA

NS-ThP-9 Time-Delayed Measurements of Heterogeneous Dynamic Data, ***Petro Maksymovych***, Clemson University; *Sabine Neumayer,* Oak Ridge National Laboratory, USA

NS-ThP-10 Chirality Retention in Aqueous Propylene Oxide Hydration: Chirality of the Transition State, ***Nisha Shukla***, Carnegie Mellon University, USA; *Marcus Yu,* University of Columbia; *Andrew Gellman,* Carnegie Mellon University, USA

NS-ThP-11 Understanding the Structural Orientation of Iron Tetraphenylporphyrin (Fe-TPP) on HOPG through Scanning Tunneling Microscopy for Electrocatalytic CO_2 Reduction, ***Hritvik Bhosale (Graduate Student)***, *Mausumi Mahapatra,* Loyola University Chicago

NS-ThP-12 Nano-Projectile SIMS: Guiding EUV Resists Fabrication Process with Nanoscale Compositional Insights, ***Christelle Guillermier***, Biennetechnology; *Michael J Eller,* University of Mississippi; *Stanislav V Verkhoturov, Richard Rickman,* Biennetechnology; *Serge Della Negra,* Universite Paris Saclay, France; *Emile A Schweikert,* Texas A&M and Biennetechnology

NS-ThP-14 Local Electronic and Transport Properties of Epitaxial Graphene on Sic(0001) Studied by Scanning Tunneling Microscopy and Spectroscopy, ***Marek Kolmer***, *Umamahesh Thupakula, Shen Chen, Yong Han,* Ames National Laboratory; *Michael C. Tringides,* Iowa State University

NS-ThP-15 The Nature of Photodoping in van der Waals Heterostructures, ***Son Le***, Laboratory for Physical Sciences; *Thuc Mai, Maria Munoz, Riccardo Torsi, Angela Hight Walker, Curt Richter,* NIST; *Aubrey Hanbicki,* Laboratory of Physical Sciences; *Adam Friedman,* Laboratory for Physical Sciences

NS-ThP-16 Ternary Gold Nanoparticle-Corona-Neurotransmitter Plasmonic Complexes for Probing Resonant Electronic Coupling, ***Tefera Entele Tesema***, *Kahmeria Smith,* Prairie View A&M University

NS-ThP-17 Exciton-Polaritons in Metal-Organic Chalcogenolates: From UV to Visible, ***Deep Jariwala***, University of Pennsylvania

Plasma Science and Technology
Room Ballroom A - Session PS-ThP
Plasma Science and Technology Poster Session
4:30 – 7:00 pm

PS-ThP-2 Effect of Electrode Configuration on Plasma Discharge Characteristics and PVDF Film Properties Using Atmospheric Pressure Plasma Jets, ***Eun Young Jung***, The Institute of Electronic Technolog, Kyungpook National University, Republic of Korea; *Heung-Sik Tae,* School of Electronic and Electrical Engineering, Kyungpook National University, Republic of Korea; *Choon-Sang Park,* Department of Electrical Engineering, Milligan University

PS-ThP-3 Time Stability of Hafnium Nitride Thin Films Deposited by Plasma-Enhanced Atomic Layer Deposition, ***Sandra Schujman***, NY Creates; *Natalya Tokranova, Christophe Valleé,* University at Albany; *Vidya Kaushik,* NY Creates

PS-ThP-5 Impact of Secondary Electrons on Scaling Wafer Bias to High Power, ***James Prager***, *Josh Perry, Paul Melnik, Timothy Ziemba,* Eagle Harbor Technologies, Inc. (dba EHT Semi); *Max Kellermann-Stunt, Mark J. Kushner,* University of Michigan

PS-ThP-6 An RF Generator Without a Matching Network for Capacitively Coupled Plasma and Bias Applications, ***Timothy Ziemba***, *Josh Perry,* Eagle Harbor Technologies, Inc. (dba EHT Semi); *Paul Melnik, Chris Bowman, Connor Liston, Stephanie Geeson, James Prager,* Eagle Harbor Technologies Inc. (dba EHT Semi)

PS-ThP-7 Modeling Atomic Wall-Catalyzed Recombination Kinetics and Weakly Bound Surface Species, ***Jonathan Tran (Graduate Student)***, *David Graves,* Princeton University

PS-ThP-8 Low Thermal Budget Dopant Activation via Spike Plasma Enhanced Annealing, ***Zhihao Ma (Graduate Student)***, University of Texas at Dallas; *Mahsa Shekarnoush, Yuanning Chen, Malcolm Bevan, Harvey Stiegler,* MicroSol Technologies Inc.; *Lawrence Overzet,* University of Texas at Dallas

PS-ThP-9 Effect of Thin Dielectric Layer Boundary Conditions on Electronegative Plasmas in Capacitively Coupled Plasma Reactors, ***Jeong-hoon Son (Graduate Student)***, KWT Solution Inc., Republic of Korea

PS-ThP-10 Implementation of a Surface Coverage Module in K-PLASMA(0D) and Validation Against a C4F8 Inductively Coupled Plasma Global Model, ***Yongil Lee***, KWT Solution, Republic of Korea; *Deuk-Chul Kwon,* Korea Institute of Fusion Energy, Republic of Korea; *Dong-Hun Yu,* KWT Solution, Republic of Korea

PS-ThP-11 Positive Pulse Biasing for Directional Electron Extraction in Capacitively Coupled Plasma, *Kyoung-Jae Chung,* ***Junbeom Park (Graduate Student)***, *Daehyun Kim,* Seoul National University, Republic of Korea

PS-ThP-12 Plasma Impedance Monitoring of SiNx Etching Processes with Different Grounding Conditions, ***hyun kyu Choi (Graduate Student)***, *Heeyeop Chae,* Sungkyunkwan University (SKKU), Republic of Korea

PS-ThP-13 Particle-in-Cell Simulation of the Synchronous Effect in Pulsed Dual-Frequency Capacitively Coupled Plasma, *Jun Hee Mun,* ***Junesuk Kang,*** KWT Solution, Inc. Republic of Korea

PS-ThP-14 3D PIC-MCC Simulation for Plasma Nonuniformity in off-centered DC Magnetron Sputtering, *Yu Gyeong Suh,* ***Hae June Lee,*** Pusan National University, Republic of Korea

PS-ThP-15 Two-Dimensional Particle-in-Cell Simulation of Electronegative Plasmas in Chlorine Capacitively Coupled RF Discharges, ***Dongmin Lee (Graduate Student)***, *Hae June Lee,* Pusan National University, Republic of Korea

PS-ThP-16 Electrified C–N Coupling in Ethylene Glycol Using Nitrogen DC Plasma-Liquid Interactions, ***José Balena***, *Mikhail Vasilev,* University of Notre Dame; *R. Mohan Sankaran,* University of Illinois Urbana-Champaign; *Caue Ribeiro,* Embrapa Instrumentation, Brazil; *David Go,* University of Notre Dame

PS-ThP-17 Effect of H_2O Additive Gas on Sio_2 and Si_3N_4 Films in C_4F_8 Self-Bias Plasma, *Heeyeop Chae,* ***Haegeon Jung (Graduate Student)***, Sungkyunkwan University (SKKU), Republic of Korea

PS-ThP-18 Aqueous Electron Yields for Non-thermal Plasma in Contact with a Water Cathode: Effects of Plasma Gas Composition, ***Mikhail Vasilev***, *David Bartels, David Go,* University of Notre Dame

PS-ThP-19 Plasma Monitoring for Chamber Conditioning Steady-State Detection Using He-Normalized SiF Saturation in Inductively Coupled Plasma, ***Suyoung Ko (Graduate Student)***, *Heeyeop Chae,* Sungkyunkwan University (SKKU), Republic of Korea

PS-ThP-20 Time-Resolved Langmuir Probe Measurements of Pulsed RF Argon Plasmas, ***Collin Clay***, *Kylan Herring, David Ruzic,* University of Illinois

PS-ThP-21 Optical Emission Diagnostics of Electron Temperature and Density in Argon ICP Assisted by Collisional-Radiative Modeling, ***JiHyun Park***, *Moonsoo Bak,* Sungkyunkwan University (SKKU), Republic of Korea

PS-ThP-22 ReaxFF Development by Latent Space Exploration for Plasma Etch Modeling, ***George Arsnow (Graduate Student)***, *David Graves,* Princeton University

PS-ThP-23 Enhanced Catalytic Performance in Plasma-Assisted Dry Methane Reforming via Ferroelectric Perovskites, ***Shanza Baig (Graduate Student)***, University of Oklahoma

PS-ThP-24 Plasma-Enhanced CO_2 Dissociation for Chemical Synthesis: Modeling and Experimental Verification, ***Andrew Herschberg (Graduate Student)***, *Nathan Bartlett, Jameson Crouse, Emily Greene, Jaime Robertson, David Ruzic,* University of Illinois at Urbana-Champaign

PS-ThP-26 Evolution of Ion Energy Distribution Functions in High Aspect Ratio Features, ***David Kanfer (Graduate Student)***, North Carolina State University; *Krista Morris, Rex Anderson,* Micross; *Tanjina Akter,* North Carolina State University; *Chenyao Huang, Mark Kushner,* University of Michigan, Ann Arbor; *Steven Shannon,* North Carolina State University

PS-ThP-27 Complex Transient Processes Observed During in-Plasma Nanocalorimetry, ***Carles Corbella***, National Institute of Standards and Technology (NIST)/ University of Maryland, College Park; *Caroline Adam, Holger Kersten,* Kiel University, Germany; *Feng Yi, Andrei Kolmakov,* National Institute of Standards and Technology (NIST)

PS-ThP-29 PICLas: An Open-Source Kinetic Simulation Framework for Plasma Science and Technology, ***Paul Nizenkov***, *Asim Mirza, Stephen Copplestone, Julian Beyer,* boltzplatz - numerical plasma dynamics GmbH, Germany; *Marcel Pfeiffer,* Institute of Space Systems, University of Stuttgart, Germany

PS-ThP-30 Time-Resolved Ion Energy Distribution Function Study of High Power Impulse Magnetron Sputtering with Positive Cathode Reversal using a Linear Magnetron for Cu and Ti, ***Collin Jeckell (Graduate Student)***, *Tag Choi, Matt Egly, Ricky Pickering, David Ruzic, Dren Qerimi,* University of Illinois at Urbana Champaign

PS-ThP-31 Neural-Network Based Reconstruction for Limited-Line-of-Sight CT-OES Plasma Diagnostics, ***Jiseong Nam (Graduate Student)***, *Kyoung-Jae Chung, Sang Yoel Park,* Seoul National University, Republic of Korea

PS-ThP-32 Stannane Decomposition and Sticking Coefficients under Different Sample Conditions , ***Emily Greene (Graduate Student)***, *Jameson Crouse, Nathan Barlett, Eric Mushrush,* University of Illinois at Urbana-Champaign; *Niels Braaksma,* ASML; *David Ruzic,* University of Illinois at Urbana-Champaign

PS-ThP-33 Plasma Torch Method for Silicon Carbide (SiC) Dopant Implantation, ***Victor Veltmeyer (Graduate Student)***, *Renato Beraldo, José Pissolato Filho, José Diniz, Marcos Puydinger dos Santos,* State University of Campinas, Brazil

PS-ThP-35 Advanced Waveform-Modulated Pulsed Biasing for Seam Suppression in Dielectric Gap-Fill Processes, ***Yejin Shin***, *Tae Cho,* WONIK IPS Co., Ltd., Republic of Korea; *Junghoon Kim,* WONIK IPS Co., Ltd.; *Hyun-Jong Woo, TaeIn Kim, YongBaek Jeon, TaeJoon Kim, Gyu-Tai Kim, DongIl Choi, Eun Sun Jung,* WONIK IPS Co., Ltd., Republic of Korea

PS-ThP-36 Wafer Edge Yield Improvement through SOH Mask Tilt Optimization by Edge Insert Ring Height Adjustment, ***Junhyuk Choi***, Samsung Electronics, Republic of Korea

PS-ThP-37 Development of a Spatially Resolved Diagnostic for the Measurement of Chlorine Radical Density in Etching Plasmas, ***Alexander Kino (Graduate Student)***, *Dren Qerimi,* University of Illinois at Urbana-Champaign; *Takashi Tohara,* Tokyo Electron America, Inc.; *Seongyeon Kim,* Tokyo Electron Ltd., Republic of Korea

PS-ThP-38 A Dry Plasma Process of Low GWP Chemistry for Polymer Coatings, ***Phong Nguyen***, *Yichen Yao,* ***Nathan Stafford, Xiangyu Guo,*** Air Liquide

PS-ThP-39 Superconducting BEOL for Quantum Devices routing, *Chêne Thibaut, Roselyne Segaud,* ***Thierry Chevolleau***, *Stéphane Minoret, Frédéric Gustavo,* CEA-Leti, France; *François Lefloch,* CEA-IRIG, France; *Patrice Gergaud, Michaël Bouvier, Julien Garrione, Fabrice Nemouchi,* CEA-Leti, France

PS-ThP-40 Controlling IEDFs via Tailored Waveforms - A Numerical Investigation, ***Richard Blackwell-Whitehead***, *Sebastian Mohr, Hyungseon Song,* Quantemol Ltd, UK

PS-ThP-41 Scaling Effects on Selective SiGe Etching in Sub-10 nm SiGe/Si Stacks Using F-rich Gas-based Remote Plasmas, ***Eun Seok Yoon (Graduate Student)***, *Hong Seong Gil, Woo Chang Park, Geun Young Yeom,* Sungkyunkwan University, Republic of Korea

PS-ThP-42 Edge-controlled Plasma Thinning Process for 3D Packaging, ***Hyun Bong Jang (Graduate Student)***, *Jong Woo Hong, Chan Ho Kim, Hyeong Joon Eoh, Geun Young Yeom,* Sungkyunkwan University (SKKU), Republic of Korea

PS-ThP-43 Etching Characteristics and Mechanism Analysis of SiO_2 Hole Patterns Using Low-GWP Gas as Alternatives to c-C_4F_8, ***Seyoung Choi (Graduate Student)***, *Myeongho Park, Geun Young Yeom,* Sungkyunkwan University, Korea

Quantum Science and Technology
Room Ballroom A - Session QS-ThP
Quantum Science and Technology Poster Session
4:30 – 7:00 pm

QS-ThP-2 Josephson Effect at the Atomic Scale with High Energy Resolution and Microwave Irradiation, ***Soumyaranjan Jhankar (Graduate Student)***, *Christian Ast,* Max Planck Institute for Solid State Research, Germany

QS-ThP-3 TOF-SIMS Depth Profiling of Tantalum Deposited with Ar and Kr Sputter Gas, ***Aleksandra Biedron***, *Vidya Kaushik,* NY Creates*; Maciej Olszewski, Lingda Kong, Simon Reinhardt, Daniel Tong, Xinyi Du,* Cornell University*; Gabriele Di Gianluca,* University of Florida*; Haoran Lu, Saswata Roy, Luojia Zhang, David Muller, Valla Fatemi,* Cornell University

QS-ThP-4 A High-Yield "Baseline" Fabrication Recipe for Superconducting Resonators and Qubits at Cornell Nanoscale Facility, ***Xinyi Du***, *Maciej Olszewski, Simon Simon Reinhardt, Lingda Kong, Gabriele Gianluca, Ron Olson, Valla Fatemi,* Cornell University

QS-ThP-5 Learning-Guided Variational Quantum Eigensolver with Circuit-Aware Parameterization and Post-Processing, ***Yan Li***, Penn State University

QS-ThP-6 Scanning-Tunneling-Microscope-Defined Josephson Junctions as a Local Platform for Qubit-Relevant Phase Dynamics, ***Robertus Elbertse***, *Dengyu Yang,* NIST-Gaithersburg*; Fabian Natterer,* ETH Zürich, Switzerland*; Joseph Stroscio,* NIST-Gaithersburg

QS-ThP-7 Structure-Transport Relationships of Epitaxial Superconducting Nitride Films, *Evangeline Beeching, Sabin Regmi, Amey Khanolkar, Ahmed Wasif Mustakim, Volodymyr Buturlim, Zach Cresswell, Kevin Vallejo,* Idaho National Laboratory*; Robert Makin,* Western Michigan University*; Krzysztof Gofryk,* Idaho National Laboratory*; **Brelon May***, Montana State University

QS-ThP-8 High Purity CaO thin films for quantum information science, ***Jake DeChiara (Graduate Student)***, Pennsylvania State University*; Bonnie Lin,* MIT*; Amirehsan Alizadeh, Edo Waks,* University of Maryland College Park*; James LeBeau,* MIT*; Saeed Almishal, Jon-Paul Maria,* Pennsylvania State University

QS-ThP-9 Physical Vapor Deposition of Highly Crystalline Cerium Oxide (CeO_2) Thin Films for Quantum Information Technology, ***Andrey Shults***, *Saeed Almishal,* The Pennsylvania State University*; Sooyoon Hwang,* MIT*; Amirehsan Alizadehherfati,* University of Maryland*; James LeBeau,* MIT*; Edo Waks,* University of Maryland*; Jon-Paul Maria,* The Pennsylvania State University

QS-ThP-10 The Role of QED-C in Growing the Quantum Industry, ***Sebastian Engelmann***, QEDC

QS-ThP-11 Grain-Boundary Limited Formation of NV^- Centers in Low-Pressure MPECVD Polycrystalline Diamond, ***Hammed Ejalonibu***, University of Saskatchewan, Canada

Spectroscopic Ellipsometry
Room Ballroom A - Session EL-ThP
Spectroscopic Ellipsometry Poster Session
4:30 – 7:00 pm

EL-ThP-1 Optical Properties of Metal Thin Films Measured by Spectroscopic Ellipsometry, ***Kathryn Brown (Graduate Student)***, *Suresh Chaulagain, Prabin Dulal, Tingting Zhu, Mohammed Alaani, Ambalanath Shan, Nikolas Podraza,* University of Toledo

EL-ThP-2 Engineering the Optimal Filter: Nonlinear Noise-Reducing Filters in Spectroscopy, ***David Aspnes***, North Carolina State University*; Long Le,* Vietnam Academy of Science and Technology, Viet Nam*; Young Kim,* Kyung Hee University, Republic of Korea

EL-ThP-3 Optical Properties of CrN Measured by Spectroscopic Ellipsometry, ***Alexander Bordovalos (Graduate Student)***,, *Suresh Chaulagain, Ambalanath Shan, Nikolas Podraza,* University of Toledo*; Dilara Sen, Olivia Fairlamb, Frank Peiris,* Kenyon College*; Duc V. Dinh, Xiang Lü, Oliver Brandt,* Paul-Drude-Institut für Festkörperelektronik, Leibniz-Institut im Forschungsverbund Berlin e.V., Germany

EL-ThP-4 Optical and Structural Properties of Sbxsey Thin Film Co-Evaporated via Elemental Sources, ***Bishal Shrestha (Graduate Student)***, *Mohammed Razooqi Alaani, Madan Mainali, Alisha Adhikari, Balaji Ramanujam, Prabin Dulal, Venkanna Kanneboina, Ambalanath Shan, Nikolas Jacob Podraza,* University of Toledo

EL-ThP-5 Composition-Dependent Optical Properties of Silver-Aluminum Alloy: An Ellipsometric Approach, *Jonas Sikah,* ***Will Cusak (Undergraduate)***, *Alexander Kozen, Matthew White,* University of Vermont

EL-ThP-6 iCVD Parameters with Structural and Dielectric Properties of Hydrophobic and Hydrophilic Polymer Thin Films: A Multi-Sample Spectroscopic Ellipsometry Analysis, *Parvez Amin Khan, Shadi Motamed, Hamidreza Mohajeri,* ***Ufuk Kilic,*** University of Nebraska - Lincoln*; Mathias Schubert,* University of Nebraska-Lincoln*; Siamak Nejati,* University of Nebraska - Lincoln

EL-ThP-7 Optical Properties of Boro-aluminosilicate Glass using Spectroscopic Ellipsometry from 0.079 to 5.89 eV, ***Eva Mulloy (Graduate Student)***, *Prabin Dulal, Suresh Chaulagain, Emily Amonette, Alex Bordovalos, Ambalanath Shan, Nikolas Podraza,* University of Toledo

EL-ThP-8 Birefringence of GdScO3 using Transmission Spectroscopic Ellipsometry, ***Prabin Dulal (Graduate Student)***, *Balaji Ramanujam, Nikolas Podraza, Ambalanath Shan,* University of Toledo

EL-ThP-9 Evolution of the Below Bandgap Anisotropic Refractive Indices of β-$(Al_xGa_{1-x})_2O_3$ (0< x< 0.25) Determined by Generalized Spectroscopic Ellipsometry, ***Preston Sorensen (Graduate Student)***, University of Nebraska - Lincoln*; Alyssa Mock,* Weber State University*; Megan Stokey,* Milwaukee School of Engineering*; Ufuk Kilic,* University of Nebraska - Lincoln*; Akhil Mauze, Yuewei Zhang, James Speck,* University of California Santa Barbara*; Zbigniew Galazka,* Leibniz Institute for Crystal Growth, Germany*; Vanya Darakchieva,* Lund University, Sweden*; Mathias Schubert,* University of Nebraska - Lincoln

EL-ThP-10 Optical Characterization of Bandgap Engineered $(In_{1-x}Al_x)_2O_3$ Emitters for High-Performance CdTe Solar Cells, ***Balaji Ramanujam***, *Prabodika N Kaluarachchi, Isuru Lakmal, Nadeesha Katakumbura, Manoj Jamarkattel, Ebin Bastola, Shannon E. Costello, Anirudh K Pathyapura, Carlito Okey, Randy J. Ellingson, Michael J. Heben, Adam B. Phillips, Nikolas J. Podraza, Ambalanath Shan,* University of Toledo

Surface Science
Room Ballroom A - Session SS-ThP
Surface Science Poster Session
4:30 – 7:00 pm

SS-ThP-1 Development of Machine-Learned Models for Understanding Oxygen Adsorption on Silver Surfaces, ***Bright Daniel (Graduate Student)***, University of Tennessee, Knoxville*; Carson Mize,* Leiden University, Netherlands*; Lonnie Crosby, Sharani Roy,* University of Tennessee Knoxville

SS-ThP-2 Chemically Programmable Hole Migration on TiO2(111) Revealed by Time-Resolved Atomic Force Microscopy, *Nuray Basaran, Mohammad Safikhani-Mahmoudi,* École de technologie supérieure, University of Quebec, Canada*; Bugrahan Guner,* Yale University*; **Omur E. Dagdeviren***, École de technologie supérieure, University of Quebec, Canada

SS-ThP-3 Controlling Catalytic Surface Chemistry and Interfacial Water Transport in CO-Based Oxidative Carbonylation, ***Yeonsong Lee (Graduate Student)***, KITECH, SKKU, Republic of Korea*; Min-zy Kim,* KITECH, Republic of Korea*; Ji Man Kim,* Sungkyunkwan University (SKKU), Republic of Korea*; Tae Yong Kim,* KOREATECH, Republic of Korea*; Yong Jin Kim, Jayeon Baek,* KITECH, Republic of Korea

SS-ThP-4 Revisiting MOF-Based Encapsulation for CO_2 Hydrogenation to Methanol: Metal–Oxide Interface Design in Cu-Based Catalysts, ***Yerin Lee (Graduate Student)***, Korea Institute of Industrial Technology, University of Science and Technology, Republic of Korea*; Yesub Keum,* Korea Institute of Industrial Technology, Republic of Korea*; Vu Nguyen,* Korea Institute of Industrial Technology, University of Science and Technology, Viet Nam*; Huiwon Jung,* Korea Institute of Industrial Technology, Konkuk University, Republic of Korea*; Yong Jin Kim, Jayeon Baek,* Korea Institute of Industrial Technology, University of Science and Technology, Republic of Korea

SS-ThP-5 Plasmonic TiN/$BiVO_4$ Photoanodes for Enhanced Photoelectrochemical Water Oxidation, ***Minseok Lee (Graduate Student)***, *Hyewon Park,* Korea Advanced Institute of Science and Technology, Republic of Korea*; Dae Han Wi,* Chungnam National University, Republic of Korea*; Jeong Young Park,* Korea Advanced Institute of Science and Technology, Republic of Korea

SS-ThP-6 Surface Electronic Modulation in Au-Based Bimetallic Nanostructures for Photoelectrocatalysis, ***Dasol Kim (Undergraduate)***, *Hyosun Lee,* University of Seoul, Republic of Korea

SS-ThP-7 Plasmonic 3D Au Mesh Gas-Diffusion Electrode for Photo-Assisted CO2 Electroreduction, ***hyunwoo Jeong (Undergraduate)***, *Yeneul Lim, Hyosun Lee,* University of Seoul, Republic of Korea

SS-ThP-8 Facet-Controlled Au-Cu2O Heterostructures for Selective Electrochemical CO2 Reduction, ***Yeneul Lim (Undergraduate)***, *Gangbin Ryoo, Hyosun Lee,* University of Seoul, Republic of Korea

SS-ThP-10 Ligand Field and Spin-Orbit Competition in a Pb-π System, *Fahri Alkan,* Bilkent University, Turkey*; Paul Bagus,* University of North Texas*;* ***Sefik Süzer,*** Bilkent University, Turkey

SS-ThP-11 Inelastic Electron Tunneling Through Adatoms and Molecular Nanomagnets, *Daria Kývala,* ***Jindrich Kolorenc,*** Institute of Physics (FZU), Czech Academy of Science, Prague, Czechia

SS-ThP-12 Interfacial Electronic and Optical Responses in Au-Based Bimetallic Systems, ***Sieun Yang (Undergraduate)***, *Hyosun Lee,* University of Seoul, Republic of Korea

SS-ThP-13 Visible-Light-Driven Metal/Cu2O/Fe2O3 Janus Micromotors with Engineered Interfacial Charge Transfer, ***Yijun Park (Undergraduate)***, Universy of Seoul, Republic of Korea*; Son Jihan, Lee Hyosun,* University of Seoul, Republic of Korea

SS-ThP-14 Exploring a New Functionality for Surface Modifications, Organo-Azides, ***John R. Mason (Graduate Student)***, *Andrew V. Teplyakov,* University of Delaware

SS-ThP-16 Monte Carlo Simulation of Dynamic CO Oxidation on Pt(111), ***Ignacio Vargas (Graduate Student)***, *Eliseo Pérez,* Brookhaven National Laboratory and State University of New York at Stony Brook*; Qin Wu,* Brookhaven National Laboratory*; J. Aníbal Boscoboinik,* Brookhaven National Laboratory and State University of New York at Stony Brook

SS-ThP-17 Methanol Dehydrogenation and Combustion Pathways on Oxidized Cu (111), ***Vishwa Don Lokugan Hewage (Graduate Student)***, *Michael Trenary,* University of Illinois - Chicago

SS-ThP-18 Atomic-Scale Studies of Electron- and Hole-Induced Desorption at Single-Atom Alloy Active Sites, ***Nima Rajabi (Graduate Student)***, Tufts University*; Phillips Hutchison,* Princeton University*; Kai Shen,* UC Santa Barbara*; Charles Sykes,* Tufts University*; Emily Carter,* Princeton University*; Phillip Christopher,* UC Santa Barbara

SS-ThP-20 Next-Generation Momentum Microscopy, *Andreas Janzen,* Scienta Omicron GmbH, Germany*; Gerd Schönhense, Olena Tkach,* Johannes Gutenberg-Universität, Institut für Physik, Germany*; Andrew Yost, Xin Zhang,* ***Daniel Beaton,*** Scienta Omicron Inc.

SS-ThP-21 Investigating the Properties of Transition Metal-Doped Ceria Thin Films Grown by Pulsed Laser Deposition, ***Rosa Virginia Melinda (Graduate Student)***, *Nishan Paudyal, David King, Jinke Tang, Jing Zhou,* University of Wyoming

SS-ThP-22 Molecular Adsorption of CO at 110 K on the ZrB2(0001) Surface, ***Cosmic Gober (Graduate Student)***, University of Illinois at Chicago

SS-ThP-23 Ultrafast Photodissociation Dynamics of CH_2I_2 on SiO_x, ***Keith Blackman (Graduate Student)***, University of Central Florida

SS-ThP-24 Self-limiting Oxidation of $Li_xAg(111)$ Surface Alloys, ***Yuchen Niu***, *Janice Reutt-Robey,* University of Maryland, College Park

SS-ThP-25 Insight Into Subsurface Adsorption Behavior Over the Material Pressure Gap, ***Carson Mize,*** Leiden University, Netherlands*; Sharani Roy,* University of Tennessee Knoxville

SS-ThP-27 First-Principles Study of CF_4 and C_2F_6 Hydrolysis Pathways on $ZnAl_2O_4$ and Al_2O_3 Catalysts, ***Chi Hun Lee (Graduate Student)***, *Sang Hyeon Ju, Gyeong Won Seo,* Inha University, Republic of Korea*; Hyuk Jae Kwon, Jong-Min Lee, You-Hwan Son, Jeong Yun Kim,* Samsung Advanced Institute of Technology, Republic of Korea*; Hyung Chul Ham,* Inha University, Republic of Korea

SS-ThP-28 X-Ray Photoelectron Spectroscopy of Organo-Metallic Compounds Designed for Homogeneous Catalysis, ***Farzad Bastani (Graduate Student)***, University of Virginia*; Daniel Ess,* Brigham Young University*; T. Brent Gunnoe, Petra Reinke,* University of Virginia

SS-ThP-30 Topology-Directed Silicide Formation: An Explanation for the Growth of C49-$TiSi_2$ on the Si(100) Surface, *Lukas Hückmann,* Leiden University, Netherlands*; Jonathon Cottom,* ARCNL*;* ***Jörg Meyer,*** Leiden University, Netherlands*; Emilia Olsson,* ARCNL

SS-ThP-31 Well-Defined Cu-Delafossite Catalysts, ***Dario Stacchiola***, BNL

SS-ThP-32 The Role of SiO_X/Si(100) Substrate on the Growth Mechanism of Ultra-Thin Atomic Layer Deposited Cerium Oxide Layer, ***Ali Mahmoodinezhad***, Brandenburg Technical Univeristy, Iran (Islamic Republic of)*; Carlos Morales, Jan Ingo Flege,* Brandenburg Technical University, Germany

SS-ThP-33 Direct Measurement of the Mechanical Force Applied by an Electron Beam Impinging on a Metal Surface, ***Philippe G. Staib***, Williamsburg Scientific Instruments & Staib Instruments

SS-ThP-34 Structural Analysis of Diarylethene Clusters on Ag(111) by Molecular Mechanics and Density Functional Theory, ***Junta Watanabe (Graduate Student)***, *Taku Kaneko,* Keio University, Japan*; Waka Nakanishi, Keisuke Sagisaka,* National Institute for Materials Science, Japan*; Tomoko Shimizu,* Keio University, Japan

SS-ThP-35 XPS Determination of Band Alignment in a Transfer-Free MoS_2/β-Ga_2O_3 Heterojunction for Broadband Photodetection, ***Mohamed Nejib Hedhili***, Imaging and Characterization Core Lab, King Abdullah University of Science and Technology (KAUST), Thuwal, 23955-6900, Saudi Arabia*; Maha Alaqeel,* Department of Physics, King Abdulaziz University (KAU), Jeddah 21589, Saudi Arabia*; Arwa Kutbee, Areej Aljarb,* Department of Physics, King Abdulaziz University (KAU), Jeddah 21589, Saudi Arabia. Center of Nanotechnology, King Abdulaziz University (KAU), Jeddah 21589, Saudi Arabia

SS-ThP-36 Operando X-ray Spectroscopy Reveals the Role of Mn in $CoMnO_x$ Fischer–Tropsch Catalysts, ***Hao Chen,*** Stanford Synchrotron Radiation Lightsource, SLAC National Accelerator Laboratory*; Miquel Salmeron,* Lawrence Berkeley Lab, University of California, Berkeley

SS-ThP-37 Model Study of the Growth and Thermal Stability of Cu and Pt Nanoparticles on TaOx Substrates by XPS and CO-TPD, ***Ameer Siddique (Graduate Student)***, *Francisco Zaera,* UC Riverside

The Future of Temperature Sensing
Room Ballroom A - Session TS-ThP
The Future of Temperature Sensing, Poster Session
4:30 – 7:00 pm

TS-ThP-1 Progress Towards Simplified Measurement Schemes for Optomechanical Quantum-Correlation Thermometers, ***Daniel Barker,*** National Institute of Standards and Technology*; Ana Rakonjac,* Measurement Standards Laboratory, New Zealand*; Biswarup Guha, Kartik Srinivasan, Nikolai Klimov,* National Institute of Standards and Technology*; Thomas Purdy,* University of Pittsburgh

TS-ThP-2 Progress Towards Doppler Thermometry in Microfabricated Vapor Cells, ***Ryan Johnson***, *Yu-Ting Chen, Sean Bresler, Erin Adkins, Matthew Hummon, Benjamin Reschovsky, Vladimir Aksyuk, Stephen Eckel, Tobias Herman, John Kitching, Daniel Barker,* NIST

TS-ThP-3 Thermal Noise Measurements in a Cavity Electro-Optic System, ***Griffin O'Neal-Freeman (Graduate Student)***, University of Pittsburgh

TS-ThP-5 Chip-Scale Photonic AC –DC Thermal Transfer Device, *Pavan Challa, Kevin Douglass, Michal Chojnacky, Thinh Bui, Tam Duong,* NIST-Gaithersburg*; Michael Sherman, Dorin Shapira, Leeya Engel,* Technion Israel Institute of Technology, Israel*; Stefan Cular,* Howard Community College*;* ***Nikolai Klimov***, NIST-Gaithersburg

Thin Films
Room Ballroom A - Session TF-ThP
Thin Film Poster Session
4:30 – 7:00 pm

TF-ThP-2 Low Energy Ion Scattering Surface Analysis of ALD Coated Ti-Based Porous Transport Layers, *Philipp Brüner,* ***Thomas Grehl***, IONTOF GmbH, Germany*; Athina Tzavara Roussi, Rens Kamphorst, Ruud van Ommen,* Delft University of Technology, Netherlands

TF-ThP-3 Effects of Substrate and Deposition Temperature on the Morphology and Electronic Characteristics of Bismuth Thin Films Grown at 77 K and 296 K, ***Yulia Kirina Claesson (Graduate Student)***, *Prakash Sharma, Wyatt Thomas, Tristan Anderson, Arya G. Pour, Victoria Soghomonian, Jean J. Heremans, Christina Rost,* Virginia Tech

TF-ThP-4 Reactive Atomistic Simulation Workflows for Thin-Film Growth and Surface Modification in ALD and ALE, ***Fedor Goumans***, Software for Chemistry & Materials, Netherlands

TF-ThP-5 A Calibrated Oxidization Model and Software Application for Predicting Silicon Dioxide Growth in a Muffle Furnace, ***Drew Ledger***, *Daniel MacAyeal, Alexander Kozen,* University of Vermont

TF-ThP-6 Processing-Structure Relationships in Superconducting Titanium Nitride Thin Films for Quantum Device Applications, ***Kiran Nyaupane (Graduate Student)***, *Ebenezer Vondee, Tianjun Xie, Raymond E. Samuel, Richard A. Taylor, Shyam Aravamudhan,* North Carolina A&T State University

TF-ThP-8 Patterned Growth of Lead Halide Perovskite Thin Films via Stoichiometric Control, Surface Modification, and Templated Substrates, ***Jorge Rivera Romero (Graduate Student)***, *Nayeem Arefin, Sanchaya Pandit, Yanan (Laura) Wang,* University of Nebraska-Lincoln

TF-ThP-11 Synergistic Enhancement of Mechanical and Electrochemical Performance of Ni Doped Chromium Nitride Coatings Deposited on Nab Alloy Using Reactive Magnetron Sputtering, ***Aakanksha Jain (Graduate Student)***, *Ramesh Chandra, Rahul. S Mulik,* Indian Institute of Technology, India

TF-ThP-14 Thermal Degradation of ZIF-8 Thin Films in Vacuum, ***Eliseo Perez Gomez (Graduate Student)***, Stony Brook University/Brookhaven National Laboratory*; Pragya Parihar,* University of Minnesota, USA*; Mueed Ahmad,* Stony Brook University/Brookhaven National Laboratory*; J. Ilja Siepmann,* University of Minnesota, USA*; Michael Tsapatsis,* Johns Hopkins University*; J. Anibal Boscoboinik,* Stony Brook University/Brookhaven National Laboratory

TF-ThP-15 Ion Implantation and Ozone-Assisted Growth for Engineering Transport in CdO Thin Films, ***Amanda Ashby (Graduate Student)***, *Maxwell Tolchin,* Pennsylvania State University*; Bhaveshkumar Kamaliya,* McMaster University, Canada*; Angela Cleri,* Pennsylvania State University*; Youngji Kim,* Vanderbilt University*; Morvarid Ghorbani,* McMaster University, Canada*; Anton Ievlev,* Oak Ridge National Laboratory*; Nabil Bassim,* McMaster University, Canada*; Joshua Caldwell,* Vanderbilt University*; Jon-Paul Maria,* Pennsylvania State University

TF-ThP-16 Molecular Dynamics Study of Amorphous Carbon Film Growth on Si (100): Effects of Incident Energy and Substrate Temperature, ***Jhonatan Gil Romero (Graduate Student)***, *Kenneth Lathrum, Seonhee Jang,* University of Louisiana

TF-ThP-17 Effect of Metal Precursor Size on Structural and Dielectric Properties of Terpineol-Doped Ald al2o3 for Low-κ Materials, ***Sovendo Talapatra (Graduate Student)***, *Nicholas Strandwitz,* Lehigh University

TF-ThP-18 Vapor-Phase Synthesis of Fused Copper Porphyrin Thin Films for Highly efficient Electrochemical Nitrate Reduction to Ammonia, ***Mohammad Arham Khan (Graduate Student)***, University of Nebraska-Lincoln, USA*; Tan Zhang,* University of Pennsylvania*; Drialys Cardenas-Morcoso,* Luxembourg Institute of Science and Technology (LIST), Luxembourg*; Hamidreza Mohajeri Khorasani, Syed Ibrahim Gnani Peer Mohamed,* University of Nebraska-Lincoln, USA*; Andrew M. Rappe,* University of Pennsylvania*; Nicolas D. Boscher,* Luxembourg Institute of Science and Technology (LIST)*; Siamak Nejati,* University of Nebraska-Lincoln, USA

TF-ThP-20 Effective Barrier for Chronic Implantable Device Encapsulation with Tri-Layer HfO2/Al2O3/HfO2 with Atomic Layer Deposition*, Rahul Manna, Hyeongjin Jo, Martin Niemiec, Fatih Bayansal,* ***Necmi Biyikli****, Kyungjin Kim,* University of Connecticut

TF-ThP-21 Vapor-Phase Deposition of Ultrathin Porous Membranes for Organic Solvent Nanofiltration*, Shadi Motamed,* ***Hamidreza Mohajeri Khorasani (Graduate Student),*** *Mohammad Arham Khan,* University of Nebraska-Lincoln*; Hesam Jafarian,* University of Alabama*; Syed Ibrahim Gemini Peer Mohammad,* University of Nebraska-Lincoln*; Mostafa Dadashi Firouzjaei,* University of Alabama*; Mona Bavarian, Siamak Nejati,* University of Nebraska-Lincoln

TF-ThP-22 Nanofluidic Electrokinetic Analysis of the Isoelectric Point of Thin Films Deposited in Solid State Nanopores using Atomic and Molecular Layer Deposition, ***Jay Werner (Graduate Student)***, *Akira Pfeffer, Jens Gundlach, David S. Bergsman,* University of Washington

TF-ThP-23 4h-Sic Schottky Barrier Diode Surface Passivation Based on o2/n2 Icp Plasma for Oxynitridation, ***Renato Beraldo***, *R.R. Cesar, M. Mederos, A.R. Silva,* University of Campinas (UNICAMP), Brazil*; T.E.A. Santos,* Center for Information Technology Renato Archer, Brazil*; R.A. Minamisawa,* University of Applied Science and Arts Northwestern Switzerland*; M.V. Puydinger dos Santos, J.A. Diniz,* University of Campinas (UNICAMP), Brazil

TF-ThP-25 Substrate Oxidation in Atomic Layer Deposition (ALD): Role of Temperature and Precursor Selection, ***Nathan Younce (Graduate Student)***, UCF (CREOL)

TF-ThP-26 Interplay between Low-Temperature Quantum Transport and Superconductivity in Epitaxial TiN Thin Films, ***Ghanashyam Gyawali***, *Brianna L'shae Barbee, Wisdom Akande, Sudhakar Nori, Dhananjay Kumar,* North Carolina A&T State University

TF-ThP-27 Electron Transport & Superconducting Properties of Epitaxial Niobium Nitride Thin Films, ***Wisdom Akande (Graduate Student)***, *Brianna Barbee, Ghanashyam Gyawali, Sudhakar Nori, Dhananjay Kumar,* NCAT

TF-ThP-28 Making Real-World Thin-Film Data Machine-Readable: Curating Fifteen Years of PECVD Boron Carbide Records, ***Michelle Paquette***, *Kameswara Mantha, Sai Siva Kumar Pinnepalli, Olivia Walker,* University of Missouri-Kansas City

Undergraduate Poster Session
Room Ballroom A - Session UN-ThP
Undergraduate Poster Session
4:30 – 7:00 pm

UN-ThP-1 Deposition and Annealing of RF-Sputtered, Thin Film Gallium Oxide, ***Aria Lindberg (Undergraduate)***, *Jackson Anderson,* University of Vermont

UN-ThP-2 Temperature-Dependent Behavior of TaN Thin Film Resistors, ***Joshua Dykas (Undergraduate)***, *Alex Zaccardi, Alexander C. Kozen,* University of Vermont

UN-ThP-3 Analyzing Hardness of Poly (Methyl Methacrylate) (PMMA) Infiltrated with Trimethyl Aluminum (TMA) Through Vapor Phase Infiltration (VPI), ***Annie Powell (Undergraduate)***, *Mark Losego, Ronan Neill,* Georgia Institute of Technology

UN-ThP-5 Spectroscopic Ellipsometry of High-K Dielectrics, ***Alexander Zaccardi (Undergraduate)***, *Joshua Dykas, Alexander Kozen,* University of Vermont

UN-ThP-6 An Electrodeposited Iridium Oxide pH Sensor for Ingestible Capsule Localization, ***Micheal York (Undergraduate)***, College of Southern Maryland*; Justin Stine,* University of Maryland, College Park

UN-ThP-7 A Hybrid Energy-Harvesting Ingestible Capsule: Piezoelectric Harvester, ***Kristin Wiens (Undergraduate)***, *Izabella Tucker, Ian Jackson, Jenna Pratt, Anika Prasanna, Daniel Hutman, Abinezer Abate, Sydney Overton, Justin Stine, Reza Ghodssi,* University of Maryland, College Park

UN-ThP-8 A Hybrid Energy-Harvesting Ingestible Capsule: Electrochemical Harvester, *Ian Jackson, Abinezer Abate,* ***Daniel Hutman (Undergraduate)***, *Kristin Wiens, Izabella Tucker, Anika Prasanna, Jenna Pratt, Sydney Overton, Justin Stine, Reza Ghodssi,* University of Maryland, College Park

UN-ThP-9 Exploring Novel CVD Synthesis Routes for Enhanced Optoelectronic Properties of VS_2, ***Amari Gayle (Undergraduate)***, *M. K. Indika Senevirathna,* Clark Atlanta University

UN-ThP-10 Electrochemical Protonation of ALD Oxide Thin Films, ***Kaydence Delgado (Undergraduate)***, *Daniel MacAyeal, Alexander Kozen,* University of Vermont

UN-ThP-11 ALD Silica for Surface Passivation of Porous Stainless Steel, ***Alexander Randall (Undergraduate)***, *Richard Vanfleet, Robert Davis,* Brigham Young University

UN-ThP-12 Fourier Denoising of the C Auger XPS Signal for Subsequent D-Parameter Calculation, ***Jonathan C. Nelson (Undergraduate)***, *Alvaro J. Lizarbe, B. Maxwell Clark, Matthew R. Linford,* Brigham Young University

UN-ThP-13 The Effect of Aluminum Precursor on the Electrical, Optical, and Structural Properties of Atomic Layer Deposited Aluminum-Doped Zinc Oxide Thin Films, ***Addison McLean (Undergraduate)***, *Nicholas Strandwitz,* Lehigh University

UN-ThP-14 Plasma Diagnostics for the Modification of Plant-Based Biopolymers, ***Morgan Schnell (Undergraduate)***, *Joshua Blechle,* Wilkes University

UN-ThP-15 Using Nitrogen Plasma to Enhance Surface Properties of Decellularized Plant Scaffolds, *Reagan Larson,* ***Serena Rana (Undergraduate)***, *Morgan Hawker,* California State University, Fresno

UN-ThP-16 Effects of Chemical Species on Au(111) Surface Reconstruction Under Ambient Conditions, ***Tyler Lin (Undergraduate)***, *Tessa Garrison, Jazmin Ramos, Nazila Hamidi, Erin Iski,* University of Tulsa

UN-ThP-17 Roughening It Up: Tuning Cu(111) Defects to Enhance Water Activation, ***Sonnaleise Williamson (Undergraduate)***, *David Compton, Josue Santos Santos,* James Madison University*; Sanjaya Senanayake,* Brookhaven National Laboratory*; Kendra Weaver,* James Madison University*; Ashleigh Baber,* James Madison University

UN-ThP-18 Probing Isomeric Butanol Reactivity and Mechanistic Pathways on TiO_2/Au(111), ***Emily Euler (Undergraduate)***, *Haley Frankovich, Ashleigh Baber, Kendra Letchworth-Weaver,* James Madison University

UN-ThP-19 Overcoming the Silver Lining: Elucidating Alkene Oxidation on Ag/Cu(111), ***Josue A. Santos (Undergraduate)***, *David W. Compton, Sonnaleise E. Williamson, James T. Whitted, Kendra Letchworth-Weaver,* James Madison University*; Sanjaya D. Senanayake,* Brookhaven National Laboratory*; Ashleigh E. Baber,* James Madison University

UN-ThP-20 Grounding a RHEED AI Analytical Reward Function in Post-Growth XPS Film Characterization, ***Niyati Gupta (Undergraduate)***, University of Illinois Urbana-Champaign*; Jackson Hanle, Youssef El-Gharably, Tanzila Tasnim, Brian Opatosky, Natalie Polillo, Ryan Comes,* University of Delaware

UN-ThP-21 Modeling Directional Excitation Propagation in Square Artificial Spin Ice, ***Starr Feng (Undergraduate)***, *Zoey Yong, Connor Sullivan, Sara Majetich,* Carnegie Mellon University

UN-ThP-22 Role of Catalyst Design and Gas Composition on Plasma-Assisted NOx Conversion, ***Madison Hennick (Undergraduate)***, *Angelique Calise, Joshua Blechle,* Wilkes University

UN-ThP-23 Exploring Viable Reactive Oxygen Species on Cu(111) and Ag/Cu(111), ***David Compton Jr. (Undergraduate)***, *Sonnaleise Williamson, Josue Santos Santos,* James Madison University*; Sanjaya Senanayake,* Brookhaven National Laboratory*; Kendra Letchworth-Weaver, Ashleigh Baber,* James Madison University

UN-ThP-24 Testing a Biodegradable, Piezoelectric Implant for Electrical Stimulation of the Pudendal Nerve for Stress Urinary Incontinence, ***Ian Jackson (Undergraduate)***, University of Maryland*; Andrea Zuccaro, Tuğçe Doğruel, Metin Uz,* Cleveland State University

Vacuum Technology
Room Ballroom A - Session VT-ThP
Vacuum Technology Poster Session
4:30 – 7:00 pm

VT-ThP-1 Maintenance, Upgrade, and Vacuum System Optimization of the LCLS Superconducting Injector During 2026 Long Downtime, ***TC Chen***, SLAC National Accelerator Laboratory

VT-ThP-2 Design and Construction of a Calibration Chamber and Pressure Control System for Automated Calibration of Capacitance Diaphragm Gauges and Other Vacuum Standards, ***Jacob Ricker***, *Jay Hendricks, Kevin Douglass, Ifenna Anakor, Thomas Howard,* NIST

VT-ThP-3 Vacuum Considerations for the Next Generation of DC High Voltage Polarized Electron Gun at Jefferson Lab, ***Marcy Stutzman***, Thomas Jefferson National Accelerator Facility

VT-ThP-4 Microreactor for Quantitative Reactivity Measurements and In Situ Infrared Spectroscopy on Single-Crystal Model Catalysts, *Adam Lagin, Johannes Filzmoser, Ulrike Diebold, Michael Schmid, Gareth Parkinson,* ***Jiři Pavelec***, TU Wien, Austria

VT-ThP-5 New Developments in the Use of Fixed Length Optical Cavities as a Photonic Pressure Standard, ***Thomas Howard***, *Thinh Bui, Jacob Ricker, Kevin Douglass, Jay Hendricks,* NIST-Gaithersburg

VT-ThP-7 Plasma Fueling Guide Tube Design with Propellant Removal for the Sparc Tokamak, ***Steven Meitner***, Oak Ridge National Laboratory

VT-ThP-8 Empirical Methodology for Estimating Gas Evolution Rates from Operating Isol Targets Using Archived Vacuum-System Data, ***Dimo Yosifov***, *Farhad Rahimi*, TRIUMF, Canada

Friday Morning, November 13, 2026

Room 303

8:15am	**INVITED: CA1-FrM-1** Semiconductor Manufacturing Metrology, ***Alexander Liddle,*** Canon Nanotechnologies Inc.	**Chemical Analysis and Imaging at Interfaces** **Session CA1-FrM** **Chemical Analysis and Imaging at Interfaces Oral Session I** **Moderators:** **Andrei Kolmakov**, National Institute of Standards and Technology (NIST), **Gabriel Parker**, Oak Ridge National Laboratory
8:30am		
8:45am	**INVITED: CA1-FrM-3** High Performance Computing and Artificial Intelligence Enabled Materials Characterization and Experimental Automation, ***Mathew Cherukara,*** Argonne National Laboratory	
9:00am		
9:15am	**INVITED: CA1-FrM-5** Challenges in Real-Time Plasma-Surface Diagnostics, ***Vincent Donnelly,*** University of Houston	
9:30am		
9:45am	**INVITED: CA1-FrM-7** Gaede Langmuir Award Talk: Investigation of Solid-Solid and Solid-Liquid Interfaces under Electrical Potential via XPS and EIS , ***Sefik Süzer***[1], ÜNİVERSİTELER MAH, Turkey	
10:00am		
10:15am	**INVITED: CA2-FrM-9** Modulating Active Site for Water Electrolysis, ***Sen Zhang,*** University of Virginia	**Chemical Analysis and Imaging at Interfaces** **Session CA2-FrM** **Chemical Analysis and Imaging at Interfaces Oral Session II** **Moderators:** **Carles Corbella**, NIST-Gaithersburg, **Xiao-Ying Yu**, ORNL
10:30am		
10:45am	**CA2-FrM-11** Synthesis and in Situ Characterization of Simulated Hanford Tank Waste Models in Aqueous Solution, ***Tobias Misicko (Graduate Student)***, Oak Ridge National Laboratory, USA; *Mackenzie Savage,* University of Virginia; *Gabriel Parker, John Lasseter,* Oak Ridge National Laboratory, USA; *Kaleigh Louque, Yang Xiao,* Louisiana Tech University; *Xiao-Ying Yu,* Oak Ridge National Laboratory, USA	
11:00am	**CA2-FrM-12** Studying Electrified Catalysis at the Laboratory and at Synchrotron End Stations, ***Patrick Lömker,*** Scienta Omicron, Sweden; *Andrew Yost, Daniel Beaton, Xin Zhang,* Scienta Omicron	
11:15am	**CA2-FrM-13** Energy Flux from Non-Thermal Discharges Measured via Nanocalorimetry: Toward Plasma Standard Development, ***Carles Corbella,*** National Institute of Standards and Technology (NIST)/ University of Maryland, College Park; *Aritra Sil, Berc Kalanyan, James Maslar,* National Institute of Standards and Technology (NIST); *Lakshmi Ravi Narayan,* National Institute of Standards and Technology (NIST)/ University of Maryland, College Park; *William Osborn, Feng Yi, Andrei Kolmakov,* National Institute of Standards and Technology (NIST)	
11:30am		
11:45am		

[1] **Gaede-Langmuir Award Winner**

Friday Morning, November 13, 2026

	Advanced Packaging **Room 304 - Session PK+MS-FrM** **Advanced Packaging Oral Session** **Moderators:** **Mohanalingam Kathaperumal**, Georgia Institute of Technology, **John Lannon**, Micross	**Surface Science** **Room 305 - Session SS-FrM** **Photo- and Electrochemical Energy Conversion** **Moderators: Ashleigh Baber**, James Madison University, **Bo-Hong Liu**, National Sun Yat-sen University, Taiwan
8:15am	**INVITED: PK+MS-FrM-1** Advances Packaging Approaches for Chiplet Solutions, ***Tanja Braun,*** Fraunhofer IZM, Germany	**INVITED: SS-FrM-1** Real-Time Control of Interfacial Dynamics Enables Electrocatalytic C-H and C-C Bond Transformation and Fuel Formation, ***Marcel Schreier,*** University of Wisconsin-Madison
8:30am		
8:45am	**PK+MS-FrM-3** Advanced Packaging Enables the Future of the Semiconductor Industry, ***Charles Woychik,*** NHanced Semiconductors, Inc.	**SS-FrM-3** Exploring Non-Thiol DDQ Self-Assembly on Au(111) through Cyclic Voltammetry, AmbientSTM, and XPS, ***Nazila Hamidi (Graduate Student)***[1], *Cara Plaisance, Alyssa Nanneman, Soumick Naskar, Sanwu Wang, Erin Iski,* University of Tulsa
9:00am	**PK+MS-FrM-4** Heterogeneous Integration Enabled by Fanout Wafer Level Packaging Prototyping Facility and Activities at Arizona State University, ***Hongbin Yu,*** Arizona State University	**SS-FrM-4** Substrate Electrochemical Inertness as a Prerequisite for Reliable Electrocatalytic Characterization: Cu-Doped CNT Films Assessed by SECCM, ***Miguel Bernal,*** *Dario Stacchiola,* Brookhaven National Laboratory
9:15am	**INVITED: PK+MS-FrM-5** Maskless Lithography for Wafer and Panel-Level Advanced Packaging: Enabling Adaptive Patterning Beyond Reticle Limits, ***Jonas Wiedenmann,*** Heidelberg Instruments Mikrotechnik GmbH, Mittelgewannweg 27, 69123 Heidelberg, Germany	**SS-FrM-5** Atomic-Scale Investigation of Li/Ag(111) Interfaces: New Phases, Li-Ag Alloy Formation and Lithiophilicity, ***Yuchen Niu,*** *Janice Reutt-Robey,* University of Maryland, College Park
9:30am		**SS-FrM-6** Tracking Conducting Oxygen Ions in Solid Oxide Fuel CellElectrolytes by NAP-XPS, *Po-Chiao Li,* National Synchrotron Radiation Research Center, Taiwan; ***Bo-Hong Liu,*** National Sun Yat-sen University, Taiwan
9:45am	**PK+MS-FrM-7** Development of a Domestic Fan-Out Wafer-Level Packaging Platform for Advanced Heterogeneous Integration, ***James Will,*** SkyWater Technology	**SS-FrM-7** Translating Interfacial Ion Activity to Electrochemical Reactivity, ***Samuel Johnstone (Graduate Student)***[1], *Seth Anderson, Evan Grothen, Matthew Gebbie,* University of Wisconsin - Madison
10:00am	**PK+MS-FrM-8** SCAPEx: Status of Onshoring Secure 300mm Wafer Bumping and TSV Wafer Finishing, ***Rex Anderson,*** *John Lannon,* Micross Advanced Interconnect Technology LLC	**SS-FrM-8** Chemisorbed Oxygen Enables a Bicarbonate-Mediated Pathway for Formic Acid Oxidation on IrO2(110), *Jungwon Yun,* The Ohio State University; *Connor Pope, Somraj Patil,* University of Florida; *Aravind Asthagiri,* The Ohio State University; ***Jason Weaver,*** University of Florida
10:15am	**BREAK**	**BREAK**
10:30am		**INVITED: SS-FrM-10** Caught in the Act: Correlating Chemical Transformations and Structural Evolution Under Reaction Conditions, ***Slavomir Nemsak,*** Lawrence Berkeley National Laboratory
10:45am		
11:00am	**PK+MS-FrM-12** Impact of Formic Acid Distribution on Fluxless Reflow: Enhancing Process Uniformity and Performance, ***XINXUAN TAN,*** *Chen Fang, Zulal Tezcan, Purnima Narayanan, Zia Karim,* Yield Engineering System Inc.	**SS-FrM-12** The Importance of Interfacial Water for Achieving Long-Range Ordered Assemblies, ***Kevin Rosso,*** *Xiaoxu Li,* Pacific Northwest National Laboratory; *Tuan Ho,* Sandia National Laboratories, USA; *Duo Song, Sebastian Mergelsberg, Jianbin Zhou, Yining Wang, Narendra Adhikari, Nabajit Lahiri, Yatong Zhao,* Pacific Northwest National Laboratory; *Honghu Zhang,* Brookhaven National Laboratory; *Lili Liu,* Pacific Northwest National Laboratory; *Ruipeng Li,* Brookhaven National Laboratory; *Ping Chen, Mark Bowden, James De Yoreo, Zheming Wang, Carolyn Pearce, Xin Zhang,* Pacific Northwest National Laboratory
11:15am	**PK+MS-FrM-13** Bilayer Liners for Through Glass Vias with PVD and ALD Deposited Seed Layer and Fully Copper Plated Vias, ***Meghna Narayanan (Graduate Student),*** *Mohanalingam Kathaperumal, Mark Losego,* Georgia Institute of Technology, USA	**SS-FrM-13** Exploring Reactive Oxygen Species for Epoxidation on AgCu Bimetallic Surfaces, ***Ashleigh Baber,*** James Madison University
11:30am	**PK+MS-FrM-14** Thin Film Characterization and Mechanisms EnablingExtreme Laser Lift-off (LLO), ***Joshua Peck (Graduate Student),*** Tokyo Electron America Inc.,	**SS-FrM-14** Energetics of Water and Methanol Adsorption on CO-Precovered Pt (111) Surfaces: Solvent - Adsorbate Interactions, ***Arjan Saha (Graduate Student),*** Washington State University; *Valeria Chesnyak,* Oregon State University; *Marcus Sharp,* Pacific Northwest National Laboratory; *Nida Janulaitis,* University of Washington; *Zbynek Novotny,* Pacific Northwest National Laboratory; *Charles T. Campbell,* University of Washington; *Líney Árnadóttir,* Oregon State University; *Zdenek Dohnálek,* Pacific Northwest National Laboratory
11:45am	**PK+MS-FrM-15** Plasma Surface Engineering for Low Distortion Wafer Bonding, ***Andrew Tuchman,*** *Christopher Netzband, Joshua Greklek, Nathan Ip, Ilseok Son,* Tokyo Electron America, Inc.	**SS-FrM-15** Vibrational Relaxation of Bromine-Water Complexes on a Metal Surface, ***Huijun Han,*** Ulsan National Institute of Science and Technology, Republic of Korea; *Fajar Prihatno,* University of Ulsan, Republic of Korea; *Junseop Noh, Narae Yun,* Ulsan National Institute of Science and Technology, Republic of Korea; *Jaehoon Jung,* University of Ulsan, Republic of Korea; *Hyung-Joon Shin,* Ulsan National Institute of Science and Technology, Republic of Korea

[1] **SSD Morton S. Traum Award Finalist**

Room 315

8:15am 8:30am	**INVITED: PS1-FrM-1** Low Energy Remote Plasma and Non-Plasma Methods for Highly Selective Etching of Advanced Nanodevices, ***Mark Kawaguchi,*** LAM Research	**Plasma Science and Technology** **Session PS1-FrM** **Novel Chemistries and Materials in Plasma Processing** **Moderators:** **Kenji Ishikawa**, Nagoya University, Japan, **Thorsten Lill**, Lam Research Corporation
8:45am	**PS1-FrM-3** A Novel Si Etch Chemistry for CFET Fin Definition, ***Yifeng Zhou,*** *Hiroto Ohtake,* Applied Materials, Inc.	
9:00am	**PS1-FrM-4** The Effect of Remote Ar Plasma Exposure on the Crystalline Structure of VO_2, ***Peter Litwin,*** *Neeraj Nepal,* U.S. Naval Research Laboratory*; Marc Currie,* US Naval Research Laboratory*; Andrew Lang, Luis Carrillo, David Boris, Michael Johnson, Scott Walton, Virginia Wheeler,* U.S. Naval Research Laboratory	
9:15am	**PS1-FrM-5** Plasma-Surface Interactions of Polyurea Deposited on SiO2 and SiNx with HF Plasmas, ***Wallis Scholl***[1], Colorado School of Mines*; Mingmei Wang, Thorsten Lill, Wenyu Zhang, Louis Kim, Harmeet Singh,* Lam Research Corp*; Sumit Agarwal,* Colorado School of Mines	
9:30am	**PS1-FrM-6** Long-Term Influence of Fluorine Containing Plasmas and Gases on Sapphire (Single-Crystal Al2O3) and Ni-Based Alloy Surfaces, ***Takuya Ishihara,*** *Nozomi Kida, Hidenobu Tochigi, Keigo Iwamoto,* Azbil Corporation, Japan*; Kazuo Karahashi,* Nagoya University, Japan*; Satoshi Hamaguchi,* The University of Osaka, Japan	
9:45am	**PS1-FrM-7** Investigations of Oxygen-Containing Plasma Etching of Diamond, ***Justin Boles (Graduate Student),*** University of Houston*; Louis E. S. Hoffenberg, Jack S. Draney, David. B. Graves,* Princeton University*; Vincent M. Donnelly,* University of Houston	
10:00am	**PS1-FrM-8** Surface Reactions in Fluorine-Containing Cryo-condensed-Alcohols under Ion Beam Irradiation, ***Airah Osonio,*** *Kazuhiro Karahashi,* Nagoya University, Japan*; Chihiro Sakamoto, Wu Li, Chihiro Abe, Toshiyuki Sasaki, Mitsuhiro Omura,* KIOXIA, Japan*; Makoto Sekine, Kenji Ishikawa,* Nagoya University, Japan	
10:15am	**BREAK**	
10:30am	**PS2-FrM-10** Power- and Material-Dependent Wall Contamination from Plasma-Exposed Graphite, ***Ana Clecia Alves Almeida (Graduate Student),*** *John Foster,* University of Michigan, Ann Arbor	**Plasma Science and Technology** **Session PS2-FrM** **Plasma Science** **Moderators:** **Kenji Ishikawa**, Nagoya University, Japan, **Thorsten Lill**, Lam Research Corporation
10:45am	**PS2-FrM-11** Separating Radical-Driven and pH-Dependent Pathways in Low-Temperature Plasma-Induced DNA Damage, ***Hao Yu,*** *Cecilia Julieta Garcia Villavicencio, Sylwia Ptasińska,* University of Notre Dame	
11:00am	**PS2-FrM-12** Mechanism of Ammonium Salt Formation During Etching of Si_xN_y in an HF Plasma, ***Md Tanzid Hossain (Graduate Student),*** Colorado School of Mines, USA*; Xue Wang,* LAM Research*; Prabhat Kumar, Thorsten Lill, Mingmei Wang, Taner Ozel,* Lam Research*; Tae Won Kim,* LAM Research*; Harmeet Singh,* Lam Research*; Sumit Agarwal,* Colorado School of Mines, USA	

[1] **PSTD Coburn & Winters Student Award Finalist**

Room 316

8:15am	**INVITED: AP1+EL+PS+TF-FrM-1** Analyzing Plasma-Enhanced ALD of III-Nitrides via Experimental and Theoretical Studies, *Steven Allaby, Heba Saleh, Fatih Bayansal,* ***Necmi Biyikli,*** University of Connecticut	**Atomic Scale Processing Mini-Symposium** **Session AP1+EL+PS+TF-FrM** **Thermal and Plasma-Enhanced ALD** **Moderators:** **Virginia Wheeler**, U.S. Naval Research Laboratory
8:45am	**AP1+EL+PS+TF-FrM-3** Optical Bandgap and Thermal Stability Driven High–κ Engineering of HfAlO Dielectrics on a 200 mm ALD Platform, ***Partha Mukhopadhyay,*** *Zuriel Caribe, Ivan Fletcher, Jim Fulford,* Tokyo Electron America, USA	
9:00am	**AP1+EL+PS+TF-FrM-4** Atomic Layer Deposition Metal and Barrier Layers Enabling Next Generation Interconnects, *Matthew Weimer, Sara Harris,* Forge Nano*; Thomas Moffat,* NIST-Gaithersburg*; Dane Lindblad,* Forge Nano*; Daniel Josell,* NIST-Gaithersburg*;* ***Arrelaine Dameron,*** Forge Nano	
9:15am	**AP1+EL+PS+TF-FrM-5** Tuning the Mechanical Properties of Silica Aerogels Using Atomic Layer Deposition, ***Victor Vogt (Graduate Student),*** *Ali Madanchi, Katherine Rybkin, Andrés Miranda Mañón, Andrej Lenert, M.D. Thouless, Neil Dasgupta,* University of Michigan	
9:30am	**AP1+EL+PS+TF-FrM-6** Multilayer FUV Coatings Using ALD-Grown LaF_3 and ZrF_4, ***John Hennessy,*** Jet Propulsion Laboratory	
9:45am	**AP1+EL+PS+TF-FrM-7** Controlling the Crystallinity of V_2O_5 Deposited by Plasma-Enhanced Atomic Layer Deposition, ***Scott Walton,*** *Peter Litwin, Neeraj Nepal, Maria Sales, David Boris, Michael Johnson, Mackenzie Meyer, Virginia Wheeler,* Naval Research Laboratory	
10:00am	**AP1+EL+PS+TF-FrM-8** Epitaxial Growth of VN on Si_3N_4(0001)/Si(111) Using Molecular Beam Epitaxy, ***Nuri Oncel,*** *Mehmet Ozdogan, Carlos Munoz, Deniz Cakir,* University of North Dakota*; Randy Duma,* Quantum Design*; Rajendra Dulal,* University of North Dakota	
10:15am	**BREAK**	
10:30am	**AP2+EL+PS+TF-FrM-10** Plasma-Enhanced ALD of SiO_2 with an Alternative Precursor: From Mechanistic Insight to Area-Selective Deposition, ***James Jensen (Graduate Student),*** *Jay Swarup, James Engstrom,* Cornell University	**Atomic Scale Processing Mini-Symposium** **Session AP2+EL+PS+TF-FrM** **Enabling Atomic Scale Processing (ALD/ALE) by leveraging new Precursors and Surface Reactions** **Moderators:** **Austin Minnich**, California Institute of Technology, **Angel Yanguas-Gil**, Argonne National Laboratory
10:45am	**AP2+EL+PS+TF-FrM-11** Temperature-Dependent Growth Behavior of Aluminum Oxide Using Dimethylaluminum Isopropoxide and Water, ***Azeez O. Musa (Graduate Student),*** University of Missouri-Columbia*; Hemant Kumar, Campbell Sweet,* University of Missouri, Columbia*; Justin R. Walensky,* University of Missouri-Columbia*; Matthias J. Young,* University of Missouri, Columbia	
11:00am	**AP2+EL+PS+TF-FrM-12** Void-free Thermal ALD BaTiO3 Thin Films Prepared by Removing Water Dose after Ba Precursor, ***Jiayi Chen (Graduate Student),*** Georgia Institute of Technology, China*; Mark Losego,* Georgia Institute of Technology, USA*; Asif Khan,* Georgia Institute of Technology	
11:15am	**AP2+EL+PS+TF-FrM-13** Optimizing Molybdenum Pentachloride Delivery for Vapor Deposition Processes, ***James Maslar,*** *Vladimir Khromchenko, Berc Kalanyan,* NIST-Gaithersburg	
11:30am	**AP2+EL+PS+TF-FrM-14** Atomic Layer Modulation of Ru-Ir Alloy Thin Films for Low-Resistivity Interconnect Applications, ***Yoonseo Choi (Graduate Student),*** *Wonjoong Kim, Byungchan Lee, Minhyeok Lee, Han-Bo-Ram Lee,* Incheon National University, Republic of Korea	
11:45am	**AP2+EL+PS+TF-FrM-15** Pulsed Thermal Etching of Amorphous TiO_2 Thin Films Using $MoCl_5$, ***Hyuenwoo Yang,*** National Institute for Science and Technology (NIST)*; James Maslar, Berc Kalanyan,* NIST-Gaithersburg	

Friday Morning, November 13, 2026

	Room 317	
8:15am	**INVITED: AIML1-FrM-1** Accelerating Discovery and Design for Thin Film Polymer Self-Assembly through Machine Learning, ***Gregory Doerk***, Brookhaven National Laboratory	**AI/ML/Autonomous Experimentation for Thin Films Processing** **Session AIML1-FrM** **Materials Design and Autonomous Discovery** **Moderators:** **Eden Goodwin**, Carleton University, Canada
8:45am		
9:00am	**AIML2-FrM-4** Process Informatics Framework for Optimizing Thin-Film Deposition in Advanced Semiconductor Manufacturing, ***Shota Oda (Graduate Student)***, *Seitaro Sanai, Takeshi Hashishin, Ichiro Akai, Takeshi Momose,* Kumamoto University, Japan	**AI/ML/Autonomous Experimentation for Thin Films Processing** **Session AIML2-FrM** **AI/ML in Semiconductor Processing & Manufacturing** **Moderators:** **Dane de Quilettes**, Princeton University, **Zahra Nasiri**, University of Alabama at Birmingham
9:15am	**AIML2-FrM-5** Physics-Informed AI for Semiconductor Equipment Status Estimation and Process Quality Prediction: Equipment Manufacturer's Perspective, ***Hyunho Yun***, *Yongjo Kim, Dain Ham, Yun Hyeong Lee, Seon Hye Kim, Young Hoon Kim, Da Gyung Lee, Yoonsun Lee, Hanbee Lee, Hyemin Song, Youjin Jeong, Hongyeon Kim,* Wonik IPS, Republic of Korea	
9:30am	**AIML2-FrM-6** Multi-Objective Optimization of the Operational Durability of Meniscus-coated Perovskite Solar Cells, ***Eric Oberholtz (Graduate Student)***, *Jongbeom Kim, Maimur Hossain, Ayush Tiwary, Lucas Mar, Yube Ostos, Divenaa Madan, David Fenning,* University of California San Diego	
9:45am	**AIML3-FrM-7** In the Design of Thin Charge-Transport Films for Perovskite Solar Cells, Predictions from Machine Learning and Physics Only Partially Overlap, *Joseph Oti, Elvis Twumasi,* SUNY Polytechnic Institute*; Nana Derkyi,* SUNY Polytechnic Institute, Ghana*; Tabiri Asumadu, Desmond Klenam, Bernice Abraham,* SUNY Polytechnic Institute*; Rodica Neamtu,* ***Nancy Burnham***, Worcester Polytechnic Institute*; Iulian Gheraisou, Winston Soboyejo,* SUNY Polytechnic Institute	**AI/ML/Autonomous Experimentation for Thin Films Processing** **Session AIML3-FrM** **Connecting Datasets, Models, and Characterization** **Moderators:** **Molly McDonough**, Pennsylvania State University, **Amanda Sanchez**, Universidad Anahuac, Mexico
10:00am	**AIML3-FrM-8** Closed-Loop Ai Workflow for Literature-Guided Perovskite Thin-Film Discovery, ***Jordan Marshall (Graduate Student)***, University of Tennessee Knoxville	
10:15am	**BREAK**	
10:30am	**INVITED: AIML3-FrM-10** Multimodal AI Meets Materials Characterization, ***Linda Hung***, *Weike Ye, Jithendaraa Subramanian, Daniel Schweigert, Amalya Johnson, Flora Chen,* Toyota Research Institute	
11:00am	**AIML3-FrM-12** Building Informative Materials Datasets Beyond Targeted Objectives, ***Rafael Espinosa Castañeda (Graduate Student)***, University of Toronto, Canada, Mexico*; Jason Hattrick-Simpers,* University of Toronto, Canada	
11:15am	**AIML4-FrM-13** Panel: Funding Agencies	**AI/ML/Autonomous Experimentation for Thin Films Processing** **Session AIML4-FrM** **Expert Panel: Challenges and Opportunities in AI, ML and Autonomous Experimentation in Thin Film Research** **Moderators:** **Andreas Werbrouck**, Ghent University, Belgium, **Matthias Young**, University of Missouri
11:30am		
11:45am		

Room 318

8:15am	**INVITED: AM1+EM+TF-FrM-1** Machine Learning for Electronic Materials Discovery and Synthesis, ***Christopher Hinkle***, University of Notre Dame	**Advanced Microelectronic Materials and Devices Mini-Symposium** **Session AM1+EM+TF-FrM** **Materials Discovery and Synthesis** **Moderators:** **Michelle Paquette**, University of Missouri-Kansas City, **Haozhe "Harry" Wang**, Duke University
8:45am	**AM1+EM+TF-FrM-3** Exploration of Limiting Factors for c-BN Growth by Ion-Beam Assisted Molecular Beam Epitaxy, ***Tyler Erickson***, *Matthew Hardy, Eric Jin, Andrew Lang, James Hart, Peter Litwin, David Boris, Scott Walton, Neeraj Nepal, Douglas Katzer, Virginia Wheeler,* US Naval Research Laboratory	
9:00am	**AM1+EM+TF-FrM-4** Tuning the Physicochemical Properties of Polymer-like a-C:H Thin Films via Ultraviolet C (UV-C) Irradiation, ***Seonhee Jang***, *Kenneth Lathrum, Jhonatan Romero,* University of Louisiana	
9:15am	**AM1+EM+TF-FrM-5** Aerosol–Assisted CVD of NbN Using Novel Thermally Stable Niobium Imido Single–Source Precursors, ***Narender Kumar (Graduate Student)***, *Nariman Neekzad, Hao Hung Chen, Tatsuya Kasai, Lisa McElwee White,* University of Florida	
9:30am	**AM1+EM+TF-FrM-6** Ta Doping in MBE Grown WSe_2 2D Semiconductor, ***Daniel Stokes (Graduate Student)***, *Stephen McDonnell,* University of Virginia; *David Lawrence,* James Madison University	
9:45am	**AM1+EM+TF-FrM-7** Multilinear Regression Modeling of SiO_2 PECVD Deposition Based on Full Factorial Experiments, *Tarun Maredla, Rohit Surikuchi, David Barth,* ***Lucas Barreto***, University of Pennsylvania	
10:00am	**AM1+EM+TF-FrM-8** Transition Metal-Doped Sodium Niobate Thin Films: Microstructure, Ferroelectric Phase Stabilization, and Implications for Plasma-Assisted Catalysis, ***Shanza Baig (Graduate Student)***, *Muhammad Abdullah, Vagif Mammadzada, Baharak Sajjadi,* University of Oklahoma	
10:15am	**BREAK**	
10:30am	**AM2+EM+TF-FrM-10** Development of Metallic Gate Stacks at Atomic Scale : Application to Advanced FD-SOI Transistors, ***Elouan Le Cun (Graduate Student)***, *Julien Patouillard, Rémy Gassilloud, Mathieu Bernard, Zdenek Chalupa, Krunoslav Romanjek, Wissem Baik, William Vandendaele, Elhadji-Alhousseyni Diallo, Tadeu Mota Frutuoso, Pauline Hauchecorne, Virginie Loup, Théo Cabaret, Frédérique Glowacki, Mouaad Yassine Aliouat, Elise Arnoux, Gennie Garnier, Marie-Claire Cyrille, Olivier Renault, Claire Fenouillet-Béranger,* CEA-LETI, France	**Advanced Microelectronic Materials and Devices Mini-Symposium** **Session AM2+EM+TF-FrM** **Devices II** **Moderators:** **Samantha Jaszewski**, Sandia National Labs, **Somil Rathi**, Arizona State University
10:45am	**AM2+EM+TF-FrM-11** Towards Ordered Growth of Complex Oxide Thin Films for Memristive Devices, ***Michael Mitchell (Graduate Student)***, *Xianchao Dong, Shweta Joshi, Tianshu Li, Gina Adam,* George Washington University	
11:00am	**AM2+EM+TF-FrM-12** Ambipolar Organic Transistor Based on Polypeptides, *Jeyvin Coleman,* University of Nebraska - Lincoln; ***Mariam Orabi (Graduate Student)***, *Wai Kiat Chin, Peter Dowben,* University of Nebraska-Lincoln, USA	
11:15am	**AM2+EM+TF-FrM-13** Limitations of Layered Dielectrics, ***Peter Dickens***, *Brianna Klein, Andrew Binder,* Sandia National Laboratories, USA	
11:30am		
11:45am		

Room 319

8:15am	**INVITED: BT1+AS+CA+TF-FrM-1** Grain Structure Control of Evaporated Li Metal Films for Optimized Solid State Batteries, ***Andrew Westover***, *Peyton Carden,* Oak Ridge National Laboratory, USA	**Advances in Battery Engineering, Interface Design, and Characterization Mini-Symposium** **Session BT1+AS+CA+TF-FrM** **Solid-State Batteries** **Moderators:** **Alexander Kozen**, University of Vermont, **Chuan-Fu Lin**, Catholic University of America
8:30am		
8:45am	**BT1+AS+CA+TF-FrM-3** Unravelling the Mechanism of Al2O3 Atomic Layer Deposition on Li_6PS_5Cl for All-Solid-State Batteries, *Kyobin Park, Donghyeon Kang, Taewoo Kim, Vepa Rozyyev, Anil Mane, Hacksung Kim, Francisco Vargas, Zachary Hood, Peter Zapol, Justin Connell,* ***Jeffrey Elam***, Argonne National Laboratory	
9:00am	**BT1+AS+CA+TF-FrM-4** LiPON-Enabled Reduction of V2O5 during Fabrication of Thin-Film Ionic Devices, ***Leopoldo Tapia-Aracayo (Graduate Student)***, *David Stewart, Gary Rubloff,* University of Maryland College Park	
9:15am	**INVITED: BT1+AS+CA+TF-FrM-5** Pulsed Laser Deposition of Solid Electrolytes: How Limited Thermal-Budget Processing Relates to Li-ion Conductivity, *Nicola Perry,* University of Illinois; *En Ju Cho, Kai-Wei Lan,* ***Nicola Perry***, University of Illinois Urbana-Champaign	
9:30am		
9:45am	**BT1+AS+CA+TF-FrM-7** Open-Circuit Energy Band Alignment at NMC/LLZTO and LLZTO/Li Interfaces for Solid-State Microbattery Applications, ***Austine Amisi (Graduate Student)***, *Raquel-Garza Hernandez, Fabian Ambriz-Vargas,* Centro de Investigaciones en Óptica, Mexico	
10:00am		
10:15am	**BREAK**	
10:30am	**BT2+AS+SS+TF-FrM-10** Nanoscale Investigation of Thin Film CdSeTe/CdTe Solar Cells Using High Resolution Cathodoluminescence, ***Michael Walls***, Loughborough University, UK	**Advances in Battery Engineering, Interface Design, and Characterization Mini-Symposium** **Session BT2+AS+SS+TF-FrM** **Materials and Devices for Energy and Sustainability** **Moderators:** **Alexander Kozen**, University of Vermont, **Chuan-Fu Lin**, Catholic University of America
10:45am	**BT2+AS+SS+TF-FrM-11** MOF-derived B-doped NiCo2O4 Nanosheets for Enhanced Water Splitting Reaction, *Krishna Modi,* ***Anand Joshi***, Parul University, India	
11:00am	**BT2+AS+SS+TF-FrM-12** MLIPs-Accelerated Theoretical Investigation of Electrochemical Hydrogen Evolution on CoCrFeNi(111) High-Entropy Alloy Surface, ***Ahmad Arshadi (Graduate Student)***, *Ye Xu*, Louisiana State University	
11:15am	**BT2+AS+SS+TF-FrM-13** Integrated Hardware for Gas Monitoring: A Multisensor Embedded System for Biogas Composition Analysis, ***Allan Fonseca***, *Marco Cavallari,* UNICAMP, Brazil	
11:30am	**BT2+AS+SS+TF-FrM-14** Vacuum Assisted Swirl Flow Separation and Flash Evaporation Apparatus Enabling Desalination Applications for High-Salinity Brines and Forever Chemicals, ***Chinmay Chavan (Graduate Student)***, Texas A&M University; *Ashok Thyagarajan,* Southwest Research Institute; *Vijay Dhir,* University of California at Los Angeles; *Debjyoti Banerjee,* Texas A&M University	
11:45am	**BT2+AS+SS+TF-FrM-15** Geothermal Silica-Based Superhydrophobic Glass Coatings for Water Collection in Solar Stills, ***Floryan ROMAIN***, *Christelle YACOU, Joelle LEVALOIS-GUTZMACHER,* Université des Antilles, Guadeloupe	

Room 320

Actinides and Rare Earths
Session AC-FrM
Actinides and Rare Earths Science
Moderators:
Krzysztof Gofryk, Idaho National Laboratory,
Ladislav Havela, Charles University, Czech Republic,
Paul Roussel, AWE, UK,
David Shuh, Lawrence Berkeley National Laboratory

8:15am 8:30am	**INVITED: AC-FrM-1** Environmental Radioactivity at the Department of Energy's Hanford Site: Sources and Sinks, ***Carolyn Pearce,*** Pacific Northwest National Laboratory; *Jay LaVerne,* University of Notre Dame; *Hilary Emerson, Amanda Lawter, James James Szecsody, Rob Mackley, Xin Zhang, Zheming Wang, Kevin Rosso, Gregory Schenter,* Pacific Northwest National Laboratory; *Linda Young,* Argonne National Laboratory; *Thomas Orlando,* Georgia Institute of Technology; *Aurora Clark,* University of Utah; *Xiaosong Li,* University of Washington; *Lynn Francesconi,* Hunter College, City University of New York
8:45am 9:00am	**INVITED: AC-FrM-3** Reaching the Monolayer Limit in a van der Waals Actinide Magnet, ***Priscila Rosa,*** Colorado State University
9:15am 9:30am	**INVITED: AC-FrM-5** Theory of High-Resolution X-Ray Absorption and Resonant Inelastic X-Ray Scattering: Focus on Intermediate Valency, ***Jindrich Kolorenc,*** Institute of Physics (FZU), Czech Academy of Sciences, Prague, Czechia
9:45am 10:00am	**INVITED: AC-FrM-7** Electronic Structure Studies of Tetravalent Actinides by Solid State NMR Spectroscopy, ***Herman Cho,*** *Khyati Anand,* Pacific Northwest National Laboratory; *Sejun Park,* Los Alamos National Laboratory; *Khusboo Rana, Eric Walter,* Pacific Northwest National Laboratory
10:15am	**BREAK**
10:30am 10:45am	**INVITED: AC-FrM-10** High-Resolution X-ray Spectroscopic Studies on Protactinium and Actinium, ***Jacob Branson,*** *Bianca Schacherl, Kiara Maurer, Tim Prüßmann, Kathy Dardenne,* Karlsruhe Institute of Technology, Institute for Nuclear Waste Disposal, Germany; *Rikard Malmbeck, Olaf Walter,* European Commission, Joint Research Center, Karlsruhe, Germany; *Tonya Vitova,* Karlsruhe Institute of Technology, Institute for Nuclear Waste Disposal, Germany
11:00am	**AC-FrM-12** Recent Studies of Actinide Materials by Soft X-Ray Synchrotron Radiation Methods, ***David Shuh,*** Lawrence Berkeley National Laboratory; *Haisley Windsor, Cambell Conour,* Department of Chemistry, University of California Berkeley; *Emma Archer, Nic Cicchetti, Olivia Gunther,* Lawrence Berkeley National Laboratory; *Jennifer Wacker,* Lawrence Berkeley National Lab; *Sergei Butorin,* Uppsala University, Sweden; *Polly Arnold,* Department of Chemistry, University of California Berkeley; *Hendrik Ohldag, Matthew Marcus,* Lawrence Berkeley National Laboratory
11:15am	**AC-FrM-13** Uranium 2D Ferromagnetism at Ambient Temperatures in Layered Zintl Phase UCu_2P_2, ***Ladislav Havela,*** *Alexandre Kolomiets, Volodymyr Buturlim,* Charles University, Czechia; *Fuminori Honda,* Kyushu University, Japan; *Fabrice Wilhelm,* ESRF Grenoble, France; *Jiri Prchal,* Charles University, Czechia; *Andrei Rogalev,* ESRF Grenoble, France
11:30am 11:45am	**AC-FrM-14** Statistical Enhancement of Fissile Isotope Discrimination via Superposition of Fission-Track Clusters, *Rami Babayew, Yaacov Yehuda-Zada,* Nuclear Research Center Negev, Israel; *Galit Bar,* Soreq Nuclear Research Center, Israel; *Noam Elgad,* Nuclear Research Center Negev, Israel; *Danny Dayan,* Ben Gurion University Be'er Sheva, Israel; *Jan Lorincik,* Centre Řež, Czech Republic; *Itzhak Orion,* Ben Gurion University Be'er Sheva, Israel; *Shay Dadon,* Nuclear Research Center Negev, Israel; *Aryeh Weiss,* Bar Ilan University, Israel; *Galit Katarivas Levy,* ***Itzhak Halevy,*** Ben Gurion University Be'er Sheva, Israel

Room 321

8:15am	**TF+AP+EUV-FrM-1** Expanding the Library of Mask Materials for Selective Area Growth by Molecular Beam Epitaxy, ***Corey White***, *Subhashree Seth, Daniela Montes, Daniel Bernstein,* Tufts University*; Cornell Horne Jr.,* University of Illinois Urbana-Champaign*; Minjoo Larry Lee,* University of Illinois at Urbana Champaign	**Thin Films** **Session TF+AP+EUV-FrM** **Atomic Scale Patterning and Processing** **Moderators:** **Jessica Jones,** Argonne National Laboratory, **Mark Losego**, Georgia Institute of Technology
8:30am	**TF+AP+EUV-FrM-2** Hybrid Molecular Layer Deposition of Tin-Aminates Toward EUV Resists, ***Alex Persson (Graduate Student)***, *Long Than, Stacey Bent,* Stanford University	
8:45am	**TF+AP+EUV-FrM-3** A Multivariate Approach Based on Residual Gas Analysis for Understanding Model Photoresist Processes Occurring During Exposure, ***Muhammad Ramzan***, University of Mississippi, Pakistan*; Markus Langner,* University of Mississippi, Germany*; Kas Andrle, Meng Zhang, Bernhard Lüttgenau,* Lawrence Berkeley National Laboratory (LBNL)*; Won-Il Lee, Md Istiaque Chowdhury, Xinpei Wu,* Brookhaven National Laboratory*; Melinda Lin,* Stony Brook University*; Nikhil Tiwale, Qin Wu, Qi Zhang, Cheng Wang, Ricardo Ruiz, Michael D. Connolly, Oleg Kostko,* Lawrence Berkeley National Laboratory (LBNL)*; Chang-Yong Nam,* Stony Brook University/Brookhaven National Laboratory*; Michael J. Eller,* University of Mississippi	
9:00am	**TF+AP+EUV-FrM-4** A Single Amine Additive as Both Catalyst and Inhibitor for Area-Selective SiO_2 ALD, ***Jeong-Min Lee***, *Stacey Bent,* Stanford University	
9:15am	**TF+AP+EUV-FrM-5** Ultrasonic Level Sensing for ALD Precursors Through the Ampoule Wall, ***Paul Dreher***, Inficon, Liechtenstein	
9:30am	**TF+AP+EUV-FrM-6** ALD-Enabled Ag/ZnO Nanostructured PTFE Membranes as Flexible SERS Substrates for Trace Molecular Detection, ***Halil AKYILDIZ***, *Sumeyye DILER INAN, Burak SOZEN,* Bursa Uludag University, Turkey	
9:45am	**TF+AP+EUV-FrM-7** Low Temperature PEALD of Epitaxial AlN on GaN, Ga_2O_3, and Al_2O_3 Surfaces, ***Jeffrey Woodward***, *David Boris, Michael Johnson, Daniel Pennachio,* U.S. Naval Research Laboratory*; Henry Chuang,* Naval Research Enterprise Internship Program*; Michael Mathews, Emma Rocco, Katie Gann, Benjamin Sekely, Tatyana Feygelson, Jonathan Levine-Miles,* U.S. Naval Research Laboratory*; Jennifer Hite,* University of Florida*; Michael Mastro, Virginia Wheeler, Scott Walton,* U.S. Naval Research Laboratory	
10:00am	**TF+AP+EUV-FrM-8** Kinetic Stabilization of Highly Dispersed Rh on MoO_3-Modified Anatase TiO_2(101), ***Sineth Premarathna***, University of Washington*; Zbynek Novotny,* Pacific Northwest National Laboratory*; Charles T. Campbell,* University of Washington*; Zdenek Dohnalek,* Pacific Northwest National Laboratory	
10:15am	BREAK	
10:30am	**INVITED: VT-FrM-10** High Vacuum MEMS Devices – Advances in Vacuum Technology in Microscale, ***Michał Krysztof***, *Tomasz Grzebyk, Piotr Szyszka, Paweł Urbański, Marcin Białas, Jakub Jendryka, Jan Sobków, Paweł Knapkiewicz, Jan Dziuban,* Wroclaw University of Science and Technology, Poland	**Vacuum Technology** **Session VT-FrM** **Vacuum Technology Pressure Measurement** **Moderators:** **Julia Scherschligt**, National Institute of Standards and Technology, **Charles Smith**, Oak Ridge National Laboratory
10:45am		
11:00am	**VT-FrM-12** Cassini - A MEMS Pirani with Range of 9 Order of Magnitude, ***Klaus Bergner***, *Kristian Kirsch, Lukas Reger, Andreas Truetzschler,* VACOM, Germany	
11:15am	**VT-FrM-13** AVS History Committee-Sponsored Talk: From Mercury Columns to Quantum-Based Standards: The Evolution of Vacuum and Pressure Metrology at NIST, ***Jay Hendricks***, *Jacob Ricker, Kevin Douglass, Thinh Bui,* NIST	
11:30am	**VT-FrM-14** Fast, Optimal Readout of a Tethered Optomechanical Pressure Sensor, ***Daniel Barker***, *Stephen Chen, Yiliang Bao, John Lawall, Jason Gorman,* National Institute of Standards and Technology	
11:45am	**VT-FrM-15** Recent Updates to the NIST Helium Leak Calibration Service, ***Stephen Eckel***, *Daniel Barker, James Fedchak, Julia Scherschligt,* National Institute of Standards and Technology (NIST)	

Author Index

Bold page numbers indicate presenter

— A —

A. Taylor, Richard: TF-ThP-6, 72
Aaron, Adam: VT+FUS-WeA-11, 48
Abadie, Thomas: 2D-TuA-10, 28
Abate, Abinezer: UN-ThP-7, 73; UN-ThP-8, 73
Abdikadyrova, Aruzhan: TF1-WeM-4, 39
Abdullah, Muhammad: AM1+EM+TF-FrM-8, 80
Abe, Chihiro: PS1-FrM-8, 77; PS1-TuM-5, 22
Abel, Kate: AP+EL+PS+TF-WeM-16, 38
Abraham, Bernice: AIML3-FrM-7, 79
Abtahi, Shaghayegh (Poppy): TF2-WeM-16, **39**
Aczel, Adam A.: MI-MoM-5, 9
Adam, Caroline: PS-ThP-27, 70
Adam, Gina: AM2+EM+TF-FrM-11, 80
Adam, Shaffique: 2D-WeA-4, 43
Adams, David: AS-WeM-15, 40; SE-ThA-3, **58**; SE-WeM-4, 35
Addou, Rafik: 2D-ThA-3, **58**; 2D-ThP-28, **64**; 2D-WeA-5, 43
Adegbite, Peace: SS-MoA-5, **13**
Adelmann, Christoph: AM1+EM+TF-WeA-3, 46; PS+AP-MoM-3, 10
Ademmer, Katrin: BI-MoM-3, 7
Adhikari, Alisha: EL-ThP-4, 71
Adhikari, Anil: 2D-ThM-8, 50
Adhikari, Narendra: SS-FrM-12, 76
Adhikari, Nirajan: VT2-ThM-13, 57
Adkins, Erin: TS-ThM-4, 56; TS-ThP-2, 72
Afroz, Sadia: BI3-TuM-17, **27**; BI-ThP-1, **66**
Agarwal, Nishkarsh: 2D-ThP-1, 64
Agarwal, Prawal: AP+EL+PS+TF-ThP-6, 66
Agarwal, Radhe: PS1-TuM-4, 22
Agarwal, Sumit: AP+EL+PS+TF-WeM-3, 38; PS1-FrM-5, 77; PS2-FrM-12, 77; TF2-WeM-13, **39**
Aghaian, Loosineh: FUS-WeM-17, 41
Agrawal, Richa: PS1-WeM-3, **37**
Ahmad, Mueed: TF-ThP-14, 72
Ahmadi, Mahshid: AIML1-ThA-1, 61; AIML-ThP-5, 65; AIML-ThP-8, 66
Ahmadov, Rashad: FUS-WeA-3, 48; FUS-WeM-1, **41**
Ahmed, Zehra: NS-MoA-16, 18
Aizawa, Hirokazu: EUV-MoA-15, 15
Akai, Ichiro: AIML2-FrM-4, 79
Akande, Wisdom: TF-ThP-26, 73; TF-ThP-27, **73**
Akatsuka, Hiroshi: PS1-MoA-3, 14
Akinrinola, Femi: MI-ThP-4, 68
AKINRINOLA, FEMI: AS-TuA-5, **32**
Aksyuk, Vladimir: TS-ThP-2, 72
Akter, Tanjina: PS1-ThM-6, **51**; PS-ThP-26, 70
AKYILDIZ, Halil: TF+AP+EUV-FrM-6, **83**
Alaani, Mohammed: EL-ThP-1, 71
Alaani, Mohammed Razooqi: EL-ThP-4, 71
Alaqeel, Maha: SS-ThP-35, 72
Alayan, Ola: SS-TuA-14, 28
Albertus, Paul: GWR-6, 8
Albro, Joseph A.: MI2-MoA-10, 17; MI2-MoA-7, **17**
Albuquerque, Ângela: AP+EL+MS+PS+TF-ThM-16, 52
Alden, Errol: FUS-WeM-15, **41**
Ale,, Tinase: AM+EM+TF-ThM-7, 54
Alem, Nasim: TF-WeA-5, 45
Alem, Tinsae: 2D-ThP-14, **64**
Alfrey, Adam: LS-MoM-5, 8
Aliouat, Mouaad Yassine: AM2+EM+TF-FrM-10, 80
Alizadeh, Amirehsan: QS-ThP-8, 70
Alizadehherfati, Amirehsan: QS-ThP-9, 71
Aljarb, Areej: SS-ThP-35, 72
Alkan, Fahri: SS-ThP-10, 71
Alkandery, Khalid: AS-WeA-12, 47
Allaby, Steven: AP1+EL+PS+TF-FrM-1, 78
Allasia, Nicolò: SS-TuA-14, 28
Allen, Anthony: FUS-WeM-17, 41
Allen, Cody: EUV-MoA-7, **15**
Allen, James W.: LS-MoM-3, 8
Allen, Ryan: PS2-WeM-15, 37
Allen, Scott: PS+AP-MoM-1, 10
Allis, Damian: NS-MoA-16, 18
Allred, David: SE-ThP-6, 65
Al-Mahboob, Abdullah: SS-MoA-4, 13; SS-ThM-3, **50**; SS-TuM-8, 21
Almeida, Cassio: AP+EL+MS+PS+TF-ThM-16, 52
Almishal, Saeed: AM+EM+TF-ThM-3, 54; AM+EM+TF-ThM-5, 54; AS-TuA-3, 32; QS-ThP-8, 70; QS-ThP-9, 71; TF1-MoA-6, **16**; TF-WeA-6, 45
Almishal, Saeed S. I.: TF-WeA-5, 45
Alshareef, Husam N.: 2D-ThP-28, 64
Altieri, Nick: AP+EL+PS+TF-WeM-17, 38
Altman, Eric I.: SS-MoA-15, 13
Alupothe Gedara, Buddhika: TF-TuM-14, **23**
Alvarado, Calixto: FUS-WeM-13, 41
Alves Almeida, Ana Clecia: PS2-FrM-10, **77**
Ambriz-Vargas, Fabian: BT1+AS+CA+TF-FrM-7, 81
Amisi, Austine: BT1+AS+CA+TF-FrM-7, **81**
Amonette, Emily: AS1+CA+EL-ThM-1, **49**; EL-ThP-7, 71
An, Kwangjin: SS-TuM-16, 21
Anakor, Ifenna: VT-ThP-2, 74
Anand, Khyati: AC-FrM-7, 82
Anbalagan, Aswin: QS2-MoA-17, 12
Anbalagan, Aswin Kumar: QS2-MoA-13, **12**
Andersen, Tyler: AS-TuM-17, 25
Andersen, Tyler B.: AS-ThP-15, **66**
Anderson, Amity: NS-TuM-5, 26
Anderson, Jackson: AM+EM+TF-ThP-3, 65; UN-ThP-1, 73
Anderson, Kevin: EM-ThP-13, 68
Anderson, Rex: PK+MS-FrM-8, **76**; PS-ThP-26, 70
Anderson, Seth: SS-FrM-7, 76
Anderson, Tristan: TF-ThP-3, 72
Ando, Yusuke: PS1-WeA-3, **44**
Andresen Eguiluz, Roberto: BI-TuA-1, **34**
Andrew, Trisha: TF1-WeM-3, 39; TF1-WeM-4, 39
Andrle, Kas: TF+AP+EUV-FrM-3, 83
Andruczyk, Daniel: FUS-WeM-13, 41
Ansar, Muhammad Hamza: AP+EL+PS+TF-WeM-8, **38**
Antonelli, George: EL-ThA-6, **63**; PK-ThP-1, **65**
Antony, Abetharan: PS1-WeA-4, **44**
Aouadi, Samir: SE-WeM-2, 35
Aoyagi, Satoka: AS2-ThM-13, **49**
Arachchige, Hirushan: SS-ThM-7, 50
Arafat, Md Intaqer: PS1-TuM-7, **22**
Aravamudhan, Shyam: TF-ThP-6, 72
Archer, Emma: AC-FrM-12, 82
Arefin, Nayeem: TF-ThP-8, 72
Arellano, David: AC-ThM-17, 56
Arellano, Fatima Jenina: PS1-WeA-1, **44**; PS1-WeM-5, 37
Arellano, Paula: AP+EL+MS+PS+TF-ThM-7, 52
Arellano-Vasquez, Paula: AIML1-ThM-6, 53
Argyropoulos, Christos: EL-ThA-8, 63
Arias, Tomas: SS-TuM-6, 21
Ariyaratne, Gallage KPA: NS-ThP-3, 69; NS-ThP-4, **69**
Arkesteijn, Leon: AS-TuA-12, 32
Árnadóttir, Líney: SS-FrM-14, 76
Arold, John: PS+AP-MoM-1, **10**
Arnold, Polly: AC-FrM-12, 82
Arnoux, Elise: AM2+EM+TF-FrM-10, 80
Aronson, Benjamin: EM-ThP-11, 68
Arshadi, Ahmad: BT2+AS+SS+TF-FrM-12, **81**
Arsnow, George: PS-ThP-22, **70**
Artyushkova, Kateryna: AS2-ThM-15, 49; AS-ThP-7, 66
Asel, Thaddeus: EM-WeM-3, 40
Ashby, Amanda: TF-ThP-15, **72**
Asodekar, Shreyas: QS-MoM-5, 10
Aspnes, David: AS-TuM-17, 25; EL-ThP-2, **71**
Aspnes, David E.: AS-ThP-15, 66
Ast, Christian: QS-ThP-2, 70
Asthagiri, Aravind: SS-FrM-8, 76
Asumadu, Tabiri: AIML3-FrM-7, 79
Atanassov, Plamen: AS-ThP-8, 66
Athipatla, Sneha: BI-MoA-16, 19
Attinasi, Giuseppe: 2D-ThM-14, 50
Austin, Drake: 2D-TuA-5, 28; SE-ThA-6, **58**
Autrey, Tom: SS-ThA-4, 59
Avdiaj, Sefer: VT-ThA-3, **63**
Avola, Carl: VT2-ThM-14, 57
Aydt, Maria: TF1-WeM-1, 39
Ayeni, Joshua: TF-TuM-1, **23**
Ayoub, Ramy: AP+EL+PS+TF-WeM-1, 38
Ayyagari, Sai Venkata Gayathri: TF-WeA-5, 45
Azevedo Antunes, Luis: LS-MoA-7, 18
Azizie, Kathy: AS-WeA-11, 47
Azuri, Ido: NS-MoA-13, 18

— B —

Babayew, Rami: AC-FrM-14, 82; AC-ThP-6, 64; AC-ThP-7, 64
Baber, Ashleigh: SS-FrM-13, **76**; UN-ThP-17, 73; UN-ThP-18, 73; UN-ThP-23, 73
Baber, Ashleigh E.: UN-ThP-19, 73
Babu, Vivek: TF1-MoA-9, **16**
Babuska, Tomas: AS-WeM-15, 40
Back, Tyson C.: LS-MoA-7, 18
Baczewski, Andrew David: AQS-SuA-12, **4**
Bader, Eli: QS1-MoA-6, 12
Baek, Jayeon: SS-ThP-3, 71; SS-ThP-4, 71
Baek, Kyeong-Yoon: TF-WeA-11, 45
Baer, Don: AS-ThP-3, **66**; AS-TuM-15, **25**
Bagci, Basak: PS1-ThM-4, 51; PS1-ThM-6, 51
Bagus, Paul: 2D-WeA-5, 43; SS-ThP-10, 71
Baig, Shanza: AM1+EM+TF-FrM-8, **80**; PS-ThP-23, **70**
Baik, Mu-Hyun: SS-TuM-16, 21
Baik, Wissem: AM2+EM+TF-FrM-10, 80
Baines, Carl: TS-WeA-5, **47**
Baji, Zsófia: 2D-ThA-2, 58; AM+EM+TF-ThA-1, **62**
Bajpeyi, Sagnik: LS-MoM-6, 8; LS-MoM-7, **8**
Bak, Moonsoo: PS-ThP-21, 70
Baker, Mark: AS-WeM-2, 40
Baker, Robert: LS-ThP-1, 68
Bakiro, Maram: AIML1-ThM-5, 53
Balamurugan, Kanishka: MC-TuM-7, 24
Balashev, Konstantin: BI-ThP-2, 66
Bale, Raja: EM-ThP-12, 68
Balena, José: PS-ThP-16, **70**
Balicas, Luis: 2D-ThA-4, 58
Ball, Andrew: AIML-WeM-15, 35
Baltic, Elias: BT-ThA-3, 62
Baltrusaitis, Jonas: AS1+CA+EL-ThM-4, 49
Bambrick-Santoyo, Maria: TF-WeA-11, 45
Bandapelli, Ravi Kumar: 2D-ThP-13, 64; 2D-WeA-3, 43; 2D-WeA-4, 43; 2D-WeM-7, 36; 2D-WeM-8, 36
Bandepalli, Ravi Kumar: 2D-WeM-17, 36

Author Index

Banerjee, Arnab: LS-MoM-6, 8; LS-MoM-7, 8
Banerjee, Debjyoti: AIML-ThP-2, 35; AS-ThP-18, 66; BT2+AS+SS+TF-FrM-14, 81
Banerjee, Kaustuv: 2D-ThA-2, 58
Banerjee, Parag: AP+EL+MS+PS+TF-ThM-13, **52**
Bangolla, Hemanth Kumar: 2D-ThP-21, 64
Banner, Nathan S.: EM-WeA-1, 42
Bao, Kefei: NS-TuM-4, 26; NS-TuM-6, 26
Bao, Yiliang: VT-FrM-14, 83
Bar, Galit: AC-FrM-14, 82; AC-ThP-6, 64; AC-ThP-7, 64
Baraban, Joshua: SS-TuM-5, 21
Barama, Nail El Hocine: SS-TuA-13, 28
Baranowski, Kamil: MC-ThP-3, **69**
Barbee, Brianna: TF-ThP-27, 73
Barbee, Brianna L'shae: TF-ThP-26, 73
Barber, Greg: SS-WeA-5, **43**
Barbour, Andi: LS-MoA-11, **18**; QS2-MoA-17, 12
Barbour, Andi M.: QS2-MoA-13, 12
Bare, Simon R: SS-WeA-5, 43
Bargiela, Pascal: AS1+CA+EL-ThM-4, 49
Barker, Daniel: TS-ThM-4, 56; TS-ThP-1, **72**; TS-ThP-2, 72; TS-WeM-4, 41; VT-FrM-14, **83**; VT-FrM-15, 83
Barlett, Nathan: PS-ThP-32, 70
Barnes, Jean-Paul: AS-WeA-6, **47**
Barragan, Sebastian Rojas: EUV-ThP-8, **65**
Barrentine, Emily: AS-TuA-5, 32
Barreto, Lucas: AM1+EM+TF-FrM-7, **80**
Barrett, David: AS-WeA-5, 47
Barrett, Nicholas: LS-MoA-7, 18
Barrette, Jordan: AIML1-ThA-4, **61**
Barry, Hayden: NS-MoA-3, 18; NS-MoA-9, 18
Barry, Sean: AP+EL+EM+PS+TF-TuM-5, **23**
Barry, Seán: AIML1-ThM-5, 53
Barsukov, Yuri: 2D-ThP-2, 64
Bartels, David: PS-ThP-18, 70
Barth, David: AM1+EM+TF-FrM-7, 80
Bartl, Mathias: MC-ThP-3, 69
Bartlett, Laura: TS-WeA-3, **47**
Bartlett, Nathan: EUV-MoA-16, 15; EUV-ThP-2, **65**; PS-ThP-24, 70
Basaran, Nuray: NS-ThP-5, 69; SS-ThP-2, 71
Bassim, Nabil: TF-ThP-15, 72
Bastani, Farzad: SS-ThP-28, **72**
Bastola, Ebin: EL-ThP-10, 71
Batticci, Stefano: FUS-TuA-14, 34
Batzler, Dominic: FUS-TuA-8, 34
Bauer, Eric: AC-ThM-17, 56
Baumann, Alexander: BI-MoA-16, 19
Bavarian, Mona: TF1-TuA-4, 31; TF1-WeM-1, 39; TF-ThP-21, 73
Baxamusa, Salmaan: FUS-WeM-17, **41**
Bayansal, Fatih: AP1+EL+PS+TF-FrM-1, 78; TF-ThP-20, 73
Beard, Matthew: MI2-MoA-5, **17**
Beasley, Maryssa: BI-MoA-11, 19; BI-MoA-14, 19; BI-MoM-4, **7**; BI-TuA-4, 34
Beaton, Daniel: CA2-FrM-12, 75; SS-ThP-20, **71**
Beaton, Daniel A: CA-ThP-12, 67
Beaux, Miles: AC-ThM-13, 56; AC-ThM-17, **56**
Becerra, Michelle: 2D-WeA-5, 43
Bechu, Solene: AS1+CA+EL-ThM-4, 49
BEDOUI, Giovanni: PS1-WeM-8, **37**
Beeching, Evangeline: QS-ThP-7, 70
Beetar, John: LS-ThP-1, 68
Behera, Piush: EM-ThP-10, 68
Beisiegel, David: FUS-ThP-1, 68
Beker, Amir: NS-MoA-13, 18
Bekman, Herman: AS-TuA-12, 32; VT1-ThM-3, 57
Bekris, Nicolas: FUS-ThP-1, 68
Bel, Steven: CA-ThP-6, 67
Belau, Leonid: PS2-ThM-16, 51
Belmonte, Attilio: PS2+EUV-TuA-13, 29
Ben David, Shavit: 2D-TuA-11, 28
Benfreha, Kerim: SS-TuM-5, 21
Bennett, Iryna: FUS-WeA-6, 48
Bennett, Roger A.: LS-TuM-4, 25
Bent, Stacey: TF+AP+EUV-FrM-2, 83; TF+AP+EUV-FrM-4, 83
Bentley, Soren: FUS-WeA-3, 48
Bepari, Sujoy: PS2-MoA-16, 14
Bepete, George: 2D-ThP-16, 64
Bera, Kallol: PS1-WeA-5, **44**
Beraldo, Renato: AM2+EM+TF-WeA-10, **46**; PS-ThP-33, 70; TF-ThP-23, **73**
Bérces, Zsófia: AM+EM+TF-ThA-1, 62
Berezovsky, Jesse: MC-MoA-7, **19**
Bergner, Klaus: VT-FrM-12, **83**
Bergsman, David: AIML-WeM-15, **35**; EUV-MoA-8, 15
Bergsman, David S.: TF2-TuA-10, 31; TF2-TuA-14, 31; TF-ThP-22, 73
Berkebile, Stephen: SE-WeM-2, 35
Berman, Diana: SE-WeA-11, **42**; SE-WeA-9, 42; SE-WeM-2, 35
Bernal, Miguel: SS-FrM-4, **76**
Bernard, Mathieu: AM2+EM+TF-FrM-10, 80
Bernstein, Daniel: TF+AP+EUV-FrM-1, 83
Besson, Adrien: VT1-ThM-5, 57
Bethke, Don: NS-MoA-9, 18
Bevan, Malcolm: PS-ThP-8, 69
Beyer, Julian: PS-ThA-5, 60; PS-ThP-29, 70
Bezard, Philippe: AP1+EL+MS+PS+TF-TuA-10, 30
Bhandari, Tap Raj: MI-ThP-4, 68
Bharti, Bhuvnesh: AS-TuA-8, 32
Bhatia, Ritwik: **AM+EM+TF-ThP-6**, 65
Bhatt, Lopa: TF-WeA-11, 45
Bhatt, subhash: MI-MoM-5, 9
Bhattacharjeeb, Sharmistha: EM-ThP-12, 68
Bhattacharya, Debaditya: AS1+CA+EL-ThM-3, 49
Bhattacharya, Souvik: 2D-WeM-5, 36
Bhattarai, Bipin: AM+EM+TF-ThM-13, 54
Bhosale, Hritvik: NS-ThP-11, **69**
Bhosle, Vikram: AS-WeA-5, 47
Bhuva, Montu: PS1-MoA-1, 14
Białas, Marcin: VT-FrM-10, 83
Biderman, Norb: AS-ThP-7, 66
Biedron, Aleksandra: QS-ThP-3, **70**
Bielinski, Ashley: AP+EL+PS+TF-ThP-8, 66; TF-TuM-5, **23**
Biener, Juergen: FUS-WeM-17, 41
Biesecker, John: PS2-WeM-17, 37
Biewer, Ted: VT+FUS-WeA-11, 48
Bilal, Laiba: 2D-ThM-15, **50**
Biltek, Scott: PS2-WeA-12, **44**
Bimonte, Giuseppe: NS-MoM-4, 9
Binder, Andrew: AM2+EM+TF-FrM-13, 80
Birgeneau, Robert J.: LS-MoM-4, 8
Bishal Shrestha, Bishal: AP+EL+MS+PS+TF-ThM-15, 52
Biswal, Sibani Lisa: AS-WeA-12, 47
Biswas, Anik: TF-TuM-5, 23
Biswas, Santu: SS-WeM-16, 36
Biswas, Sayanwita: MI2-MoA-10, **17**
Biyikli, Necmi: AP1+EL+PS+TF-FrM-1, **78**; TF-ThP-20, **73**
Bjorklund, Jennifer: AS2-ThM-16, 49; SS-ThM-17, 50
Black, Charles: QS1-MoA-3, 12; QS2-MoA-17, 12
Blackman, Keith: SS-ThP-23, **71**
Blackwell-Whitehead, Richard: PS-ThP-40, **70**
Blechle, Joshua: UN-ThP-14, 73; UN-ThP-22, 73
Blevins, Alexander: AM+EM+TF-ThM-4, 54; EM-ThP-4, **67**
Blook, Brian P.: MI2-MoA-7, 17
Blue, Brandon: NS-MoA-16, **18**
Boateng, Iris: QS-MoM-6, **10**
Boehm, Alex: NS-MoA-9, 18
Bogdanov, Simeon: 2D-WeM-5, 36
Boisvert, Catherine: NS-MoA-15, **18**
Bol, Ageeth: 2D-ThM-8, 50; 2D-ThP-1, 64; 2D-TuA-4, 28; AIML1-ThM-6, 53; AM+EM+TF-ThA-3, 62; AP+2D+EL+EM+PS+TF-WeA-4, 45; AP+EL+MS+PS+TF-ThM-7, 52
Boles, Justin: AP1+EL+MS+PS+TF-TuA-9, 30; PS1-FrM-7, **77**
Bonino, Mark: FUS-WeM-14, **41**
Bonyár, Attila: EL-ThA-7, 63; EL-ThA-9, 63
Booth, Jocelyne: TF2-TuA-10, 31
Bordovalos, Alex: EL-ThA-4, **63**; EL-ThP-7, 71
Bordovalos, Alexander: EL-ThP-3, 71
Borges, Fabiano: AP+EL+MS+PS+TF-ThM-16, **52**
Borghei, Moein: VT+FUS-WeA-12, **48**
Boris, David: AM1+EM+TF-FrM-3, 80; AP+EL+MS+PS+TF-ThA-4, **60**; AP+EL+MS+PS+TF-ThM-3, 52; AP+EL+PS+TF-ThP-10, 66; AP1+EL+PS+TF-FrM-7, 78; PS1-FrM-4, 77; PS1-ThM-8, 51; PS1-TuA-3, 29; TF+AP+EUV-FrM-7, 83
Boro, Joseph: AC-ThM-15, 56
Borodin, Valeria: PS1-WeM-4, 37
Boruah, Purna Kanta: 2D-ThA-8, **58**
Boscoboinik, J. Anibal: SS-TuM-15, **21**; TF-ThP-14, 72
Boscoboinik, J. Aníbal: SS-ThP-16, 71
Bostwick, Aaron: 2D-WeA-3, 43; 2D-WeA-4, 43; LS-MoA-9, **18**; LS-MoM-4, 8; LS-MoM-5, 8; LS-MoM-6, 8; LS-MoM-7, 8; LS-ThP-4, 68
Botana, Antia: TF-WeA-11, 45
Bottomley, Adam: NS-MoA-16, 18
Bouet, Nathalie: LS-MoA-3, 18; LS-MoA-4, 18
Boujard, Michel: AS-WeA-6, 47
Boulard, François: AP+EL+PS+TF-WeM-1, **38**
Bournel, Fabrice: LS-ThP-2, 68
Bouvier, Michaël: PS-ThP-39, 70
Bowden, Mark: SS-FrM-12, 76
Bowman, Chris: AP+EL+MS+PS+TF-ThA-1, 60; PS-ThP-6, 69
Braaksma, Niels: EUV-MoA-16, 15; EUV-ThP-2, 65; PS-ThP-32, 70
Brabant, Marie: PS1-TuA-1, 29
Bragg, Alyssa: EM-WeM-7, 40
Brahana, Philip: AS-TuA-8, 32
Brahlek, Matthew: EM-WeA-5, 42
Brainard, Robert: EUV-MoA-1, **15**
Brandt, Oliver: EL-ThP-3, 71
Brannon, John: BI-MoA-16, **19**
Branson, Jacob: AC-FrM-10, **82**
Brar, Victor: 2D-WeA-9, **43**
Braun, Paul: BT+AS+CA+TF-ThP-2, 65
Braun, Tanja: PK+MS-FrM-1, **76**
Brems, Steven: PS+AP-MoM-3, 10
Brenner, Kevin: 2D-WeA-5, 43; EUV-MoA-7, 15
Bresler, Sean: TS-ThM-4, **56**; TS-ThP-2, 72
Breuer, Lars: AS-WeM-14, **40**
Brianceau, Pierre: AP+EL+PS+TF-WeM-1, 38
BrightSky, Matthew: PS2-WeA-9, 44
Brintlinger, Todd: EM-ThP-13, 68
Brito e Abreu, Susana: AS-WeA-9, 47
Broadway, Mary Kate: TF1-TuA-3, **31**
Broitman, Esteban: SE-ThP-1, **65**; SE-WeM-5, **35**
Brooks, Charles: TF-WeA-11, 45

Author Index

Brooks, Nathan: **TS-WeA-4**, 47
Brown, Jasper: SS-MoM-6, **11**
Brown, Jessica: VT2-ThM-16, 57
Brown, Kathryn: EL-ThP-1, **71**
Brown, Rosemary: FUS-WeA-6, 48
Brown, Sean: BI-MoA-14, 19; BI-TuA-4, 34
Broyles, Christopher: AC-ThP-5, 64
Bruce, Adam: FUS-TuA-12, 34
Bruce, Robert L.: AP+EL+MS+PS+TF-ThM-8, 52; PS2-WeA-9, 44; PS1-WeM-3, 37
BRULE, Yoann: PS1-WeM-8, 37
Brüner, Philipp: AS-WeA-3, 47; TF-ThP-2, 72
Buchanan, Robert: FUS-TuA-12, 34
Budach, Michael: PS2+EUV-TuA-12, 29
BUDAK, SATILMIS: BT+AS+CA+TF-ThP-4, **65**
Budhathoki, Biplab: SS-WeM-4, 36
Buffo, Kenneth: TF2-MoA-10, 16
Bui, Thinh: TS-ThP-5, 72; TS-WeM-4, 41; TS-WeM-5, 41; VT-FrM-13, 83; VT-ThP-5, 74
Bui, Thinh Q: TS-WeM-6, 41
Burnham, Nancy: AIML3-FrM-7, **79**; BI-ThP-2, **66**
Burnley, Robert: TF-TuM-15, 23
Burns, Duncan M.: NS-MoA-5, 18
Burns, Kory: 2D-ThP-14, 64; AM+EM+TF-ThM-17, 54; AM+EM+TF-ThM-7, 54; NS-MoA-3, **18**; NS-MoA-9, 18
Burns, Meghan: BT-ThA-6, 62
Bussmann, Konrad: MI-MoM-8, 9
Butler, Satya: AP+2D+EL+EM+PS+TF-WeA-5, 45
Butorin, Sergei: AC-FrM-12, 82
Buturlim, Volodymyr: AC-FrM-13, 82; QS-ThP-7, 70
Buzi, Luxherta: PS2-WeA-9, **44**
Byard, Seth: QS-MoM-4, **10**
Byeongyeop, Choi: PS1-MoA-6, 14

— C —

Cabaret, Théo: AM2+EM+TF-FrM-10, 80
Cai, Ruoke: TF2-TuA-12, 31
Cai, Zefeng: 2D-WeA-3, 43
Cakir, Deniz: 2D-ThP-7, 64; AP1+EL+PS+TF-FrM-8, 78; EM-WeM-6, 40
Calderon, Sebastian: AM+EM+TF-ThM-16, 54; NS-MoA-7, 18
Caldwell, Joshua: TF-ThP-15, 72
Calise, Angelique: UN-ThP-22, 73
Camata, Renato: AIML-WeM-16, 53
Camata, Renato P: AIML1-ThM-3, 53
Campbell, Charles T.: SS-FrM-14, 76; TF+AP+EUV-FrM-8, 83
Campbell, Ian: AIML1-ThM-6, 53; AM+EM+TF-ThA-3, 62; AP+2D+EL+EM+PS+TF-WeA-4, 45
Canga, Eren: PS2+EUV-TuA-13, 29
Cantarella, Arianna: MI2-MoA-8, 17
Cao, Dongmei: AM+EM+TF-ThM-13, 54
Cao, Gang: LS-MoM-3, 8
Cao, Ting: QS1-MoA-3, 12
Cao, Wenjin: NS-TuM-5, 26
Cao, Yuhong: NS-TuM-3, **26**; NS-TuM-4, 26
Captain, Reid: EM-WeM-5, 40
Carasik, Lane: FUS-WeM-13, 41
Carden, Peyton: BT1+AS+CA+TF-FrM-1, 81
Cardenas-Morcoso, Drialys: TF-ThP-18, 73
Cardoso, Gonçalo A.: AP1+EL+MS+PS+TF-TuA-8, **30**
Caretta, Lucas: TF-WeA-3, **45**
Caribe, Zuriel: AP1+EL+PS+TF-FrM-3, 78
Carpenter, Dorien: AIML1-ThM-3, 53; AIML-WeM-16, **53**
Carpenter, Robert: PS2+EUV-TuA-13, 29
Carr, David: AS-WeA-1, **47**
Carrenõ-Diaz, Vanessa: SS-MoM-3, 11
Carretta, Stefano: MI2-MoA-8, 17; MI-ThP-1, 68
Carrillo, Luis: PS1-FrM-4, 77
Carter, Emily: SS-ThP-18, 71
Cary, John: PS-ThA-6, 60
Castner, David: SS-WeA-3, **43**
Castro, Irene: TS-ThM-7, 56
Catherall, David: QS1-MoA-9, 12
Cavallari, Marco: BT2+AS+SS+TF-FrM-13, 81
Celada, Leonardo: MI2-MoA-8, **17**; MI-ThP-1, **68**
Cendejas, Austin: EM-ThP-13, 68
Cesar, R.R.: AM2+EM+TF-WeA-10, 46; TF-ThP-23, 73
Cha, Moon-Hyun: PS-ThA-3, 60
Chae, Heeyeop: PS-ThP-12, 69; PS-ThP-17, 70; PS-ThP-19, 70
Chaires, Austin: VT1-ThM-6, **57**
Chalishazar, Aditya: AIML1-ThM-7, 53
Challa, Pavan: TS-ThP-5, **72**; TS-WeM-4, 41; TS-WeM-5, 41; TS-WeM-7, 41
Chalupa, Zdenek: AM2+EM+TF-FrM-10, 80
Chaman, Muhidul: 2D-WeA-5, **43**
Chan, Kelvin: PS-ThA-9, 60
Chan, Randall K.: NS-TuM-17, 26
Chancerel, François: PS+AP-MoM-3, 10
Chandler, Charlie: AS-WeM-2, **40**; AS-WeM-3, 40
Chandra, Ramesh: 2D-ThM-7, 50; EM-WeA-6, **42**; SE-ThP-9, **65**; TF-ThP-11, 72
Chang, Feng-Jen: FUS-TuA-10, 34; FUS-WeM-4, **41**
Chang, HungYu: EUV-MoA-13, 15
Chang, Jane: AP+2D+EL+EM+PS+TF-WeA-11, 45; PS2-WeA-11, 44
Chang, Jane P.: AP+EL+PS+TF-WeM-17, 38
Chang, Peter: TS-WeA-4, 47
Chang, Yan-Wei: MC-ThP-2, 69
Chao, Liang-Chiun: 2D-ThP-21, 64
Charlton, Timothy: TF-WeA-6, 45
Charnas, Adam: EM-WeM-3, 40
Chattaraj, Ananya: QS2-MoA-13, 12; QS2-MoA-17, 12
Chattaraj, Swarnabha: AP+EL+MS+PS+TF-ThA-5, 60
Chatterjee, Shahana: 2D-TuA-10, **28**
Chaturvedi, Deepa: BI1-TuM-4, 27
Chaturvedi, Neha: AP+EL+PS+TF-ThP-7, 66; EM-WeM-16, 40
Chaulagain, Suresh: 2D-ThM-3, **50**; EL-ThA-4, 63; EL-ThA-5, 63; EL-ThP-1, 71; EL-ThP-3, 71; EL-ThP-7, 71
Chavan, Chinmay: BT2+AS+SS+TF-FrM-14, **81**
Checkley, Chris: QS1-MoA-7, 12
Cheema, Suraj: EM-ThP-10, 68
Chen, An-Hsi: QS-MoM-5, 10
Chen, Chao-Chuan: NS-TuM-4, 26; NS-TuM-6, **26**
Chen, Cheng-Yu: NS-MoA-5, 18
Chen, Chia-Hao: 2D-ThA-5, 58
Chen, Chi-Yang: 2D-ThP-21, 64
Chen, Donna: SS-WeM-4, **36**
Chen, Flora: AIML3-FrM-10, 79
Chen, Hank: EM-WeM-13, 40
Chen, Hao: LS-TuM-3, **25**; SS-ThP-36, **72**
Chen, Ivy: AP+EL+PS+TF-WeM-6, **38**
Chen, Jiayi: AP2+EL+PS+TF-FrM-12, **78**
Chen, Ping: SS-FrM-12, 76
Chen, Qicong: FUS-WeM-7, 41
Chen, Ruei-San: 2D-ThP-21, 64
Chen, Shen: NS-ThP-14, 69; NS-TuA-3, **33**
Chen, Stephen: VT-FrM-14, 83
Chen, TC: VT1-ThM-4, 57; VT-ThP-1, **73**
Chen, Timothy: PS-ThA-9, 60
Chen, Tse-Ming: 2D-ThA-5, 58
Chen, Xianyan: NS-TuA-4, 33
Chen, Xiaobo: SS-WeA-5, 43
Chen, Xipin: EM-WeM-5, 40
Chen, Yi: AP+EL+PS+TF-WeM-17, 38
Chen, Yi-Chun: 2D-ThA-5, 58
Chen, Yuanning: PS-ThP-8, 69
Chen, Yu-Ting: TS-ThP-2, 72
Chen, Zhengtao: PS2+EUV-TuA-10, 29
Chen, Zhuo: SE-ThA-4, 58
Chen, Ziheng: 2D-ThP-23, 64
Cheng, Cheng-Maw: 2D-ThA-5, **58**; 2D-ThP-21, **64**
Cheng, Chun-Hao: SE-WeM-3, 35
Cheng, Doreen: NS-MoA-16, 18
Cheng, Yifan: TF1-WeM-8, 39
Cheriton, Ross: TS-WeM-13, 41
Cherukara, Mathew: CA1-FrM-3, **75**
Chesnyak, Valeria: SS-FrM-14, 76
Chevolleau, Thierry: PS-ThP-39, **70**
Chew, Andrew: VT-ThA-4, **63**
Chhowalla, Manish: 2D-ThP-20, 64
Chiang, Naihao: SS-ThA-6, **59**
Chiaverini, Lorenzo: 2D-ThP-11, 64
Chien, TeYu: MI-MoM-7, 9; SS-MoA-7, 13; SS-MoA-8, **13**
Chiesa, Alessandro: MI2-MoA-8, 17; MI-ThP-1, 68
Chin, Jonathan: AM+EM+TF-ThM-15, 54
Chin, Wai Kiat: AM2+EM+TF-FrM-12, 80; MI2-MoA-14, **17**
Chiu, Chan-Wen: EM-WeA-1, 42
Chiu, Justin: 2D-ThP-23, 64
Cho, Chulhee: PS1-ThM-7, 51
Cho, Daniel: AP+2D+EL+EM+PS+TF-WeA-11, 45; AP+EL+PS+TF-WeM-17, **38**
Cho, En Ju: BT1+AS+CA+TF-FrM-5, 81
Cho, Hanna: MC-TuM-3, **24**
Cho, Herman: AC-FrM-7, **82**
Cho, Hyunmin: NS-TuM-4, 26
Cho, Jinhyun: QS2-MoA-13, 12
Cho, Sung-Il: PS1-TuM-1, **22**
Cho, Tae: AP+EL+MS+PS+TF-ThA-3, 60; PS-ThP-35, 70
Cho, Yong-Sang: EM-TuA-11, 32
Choi, Bongjun: NS-TuM-4, 26
Choi, Byeongyeop: PS1-ThM-7, 51
Choi, Daheui: BI3-TuM-15, 27
Choi, DongIl: PS-ThP-35, 70
Choi, hyun kyu: PS-ThP-12, **69**
Choi, Joonhee: AM2+EM+TF-WeA-12, 46
Choi, Junhyuk: PS-ThP-36, **70**
Choi, Minsu: PS1-ThM-7, **51**
Choi, Sejin: TF1-WeM-4, 39
Choi, Seyoung: PS-ThP-43, **70**
Choi, Tag: PS-ThP-30, 70
Choi, Yong Kyu: AM+EM+TF-ThM-7, **54**
Choi, Yoonseo: AP2+EL+PS+TF-FrM-14, **78**
Chojnacky, Michal: TS-ThP-5, 72; TS-WeM-4, 41; TS-WeM-5, **41**; TS-WeM-6, 41
Choo, Sooho: EM-WeM-7, **40**; NS-MoA-4, 18
Chopra, Nirbhav: AP+2D+EL+EM+PS+TF-WeA-5, 45
Chou, Tzuan: PS1-WeA-1, 44
Choudhary, Ananya: EM-WeA-6, 42
Chourasia, Sabita: NS-MoA-14, 18
Chowdhury, Md Istiaque: TF+AP+EUV-FrM-3, 83
Choyal, Shilpa: SS-ThM-5, **50**
Christian, Kent: FUS-TuA-10, 34
Christin, Angéla: PS2-WeA-12, 44
Christopher, Phillip: SS-ThP-18, 71
Chu, Jinn P.: AS-TuA-4, **32**
Chu, Jiun-Haw: LS-MoM-4, 8
Chu, Ming-Wen: 2D-ThA-5, 58
Chu, Thi Thu Huong: EUV-MoM-8, **7**

Author Index

Chu, Ying-Hao: AM2+EM+TF-WeA-9, 46
Chu, Yong: LS-MoA-3, 18
Chu, Yong S.: LS-MoA-4, 18
Chuang, Henry: TF+AP+EUV-FrM-7, 83
Chulhee, Cho: PS1-MoA-6, 14
Chun, Jaehun: AS-TuA-8, 32
Chung, Kyoung-Jae: PS-ThP-11, 69; PS-ThP-31, 70
Chung, Peter Hayoung: EM-TuA-5, 32
Chung, Sang-Jin: AS-WeM-4, **40**
Chung, Sei-won: AP+2D+EL+EM+PS+TF-WeA-11, **45**
Cicchetti, Nic: AC-FrM-12, 82
Cimino, Sebastian: 2D-ThP-23, **64**
Cinar, Volkan: SS-WeM-16, 36
Clark, Aurora: AC-FrM-1, 82
Clark, B. Maxwell: UN-ThP-12, 73
Clark, Max: AS-WeM-1, **40**
Clay, Collin: PS-ThP-20, **70**
Cleri, Angela: TF-ThP-15, 72
Closser, Kristina: BI2-TuM-6, 27
Coad, Bryan: BI-MoA-12, 19
Coburn, Jonathan: FUS-TuA-10, 34
Cochran, Thomas: FUS-WeA-3, 48; FUS-WeA-5, 48; FUS-WeM-14, 41
Coelho, Paula Mariel: 2D-WeA-12, **43**
Cohen, Hagai: 2D-WeA-6, **43**
Cohen, Sidney: NS-MoA-13, 18
Cohen, Sidney R.: NS-MoA-14, 18; NSP-SuA-1, **5**
Colas--Reuillon, Alexandra: CA-ThP-6, **67**
Cole, Christopher: EUV-MoA-13, 15
Cole, W. Preston: AC-ThM-15, 56
Coleman, Jeyvin: AM2+EM+TF-FrM-12, 80
Collazo, Ramon: EM-WeA-2, 42
Collins, Kelsey: EM-WeM-8, **40**
Colston, Sophie: BI-MoA-14, 19
Comes, Ryan: AIML2-ThA-6, **61**; UN-ThP-20, 73
Compton Jr., David: UN-ThP-23, **73**
Compton, David: UN-ThP-17, 73
Compton, David W.: UN-ThP-19, 73
Conard, Thierry: AS-WeM-7, **40**
Conley, John: AM+EM+TF-ThA-4, 62
Connell, Justin: BT1+AS+CA+TF-FrM-3, 81
Connolly, Nicholas: PS+AP-MoM-5, **10**
Conour, Cambell: AC-FrM-12, 82
Copplestone, Stephen: PS-ThA-5, 60; PS-ThP-29, 70
Cora, Ildikó: TF2-MoA-13, 16
Corbella, Carles: CA2-FrM-13, **75**; PS-ThP-27, **70**
Correa-Baena, Juan-Pablo: TF-TuM-13, 23
Cortijos, Albert: MI2-MoA-11, 17
Cosenza, Alessio: AS-ThP-8, **66**
Cossement, Damien: TF1-TuA-5, 31
Costa Ferreira, Eidsa Brenda: SS-MoM-3, 11
Costa Tonon, Isabela: SS-MoM-3, 11
Costello, Shannon E.: EL-ThP-10, 71
Cott, Daire: 2D-ThA-2, 58
Cottom, Jonathon: SS-ThP-30, 72
Cotton, Aidan: 2D+QS-TuM-13, 20
Counsell, Jonathan: AS-ThP-12, **66**; AS-TuA-10, **32**
Counter, James J. C.: LS-TuM-4, 25
Cournoyer, James: AS-WeA-5, 47
Coutinho de Carvalho, Tainara: TF2-MoA-15, **16**
Coy, Robert: VT1-ThM-4, 57
Crabtree, Robert: TS-WeA-5, 47
Cranston, Rosemary: NS-MoA-16, 18
Creatore, Mariadriana: BT1+AS+CA+TF-ThM-6, **55**
Cremer, Paul: SS-WeA-6, **43**
Cremer, Paul S.: BI3-TuM-17, 27; BI-ThP-1, 66
Cress, Cory: EM-WeM-15, 40
Cresswell, Zach: QS-ThP-7, 70
Crosby, Lonnie: SS-ThM-15, 50; SS-ThP-1, 71
Crouse, Jameson: EUV-MoA-16, **15**; EUV-ThP-2, 65; PS-ThP-24, 70; PS-ThP-32, 70
Crowley, Cory: VT2-ThM-14, 57
Crumlin, Ethan: AS2-ThM-17, 49
Cruz Viana, Bartolomeu: 2D-ThP-16, 64
Cruz, Antonio: FUS-TuA-10, 34; FUS-WeM-4, 41
Cui, Zhenhong: 2D-ThP-13, 64; 2D-WeM-16, **36**; 2D-WeM-17, 36
Cular, Stefan: TS-ThP-5, 72
Culot, Alexandre: TF1-TuA-5, **31**
Cura, Victoria: BI3-TuM-15, 27
Curreli, Davide: PS1-TuA-5, 29
Currie, Marc: PS1-FrM-4, 77
Curry, John: AS-WeM-15, 40
Cusak, Will: EL-ThP-5, **71**
Cusentino, Mary Alice: FUS-TuA-10, 34; FUS-WeM-4, 41
Cyrille, Marie-Claire: AM2+EM+TF-FrM-10, 80

— D —

D. Boscher, Nicolas: TF-ThP-18, 73
D. Connolly, Michael: TF+AP+EUV-FrM-3, 83
Daboin, Jose: PS1-WeM-3, 37
Dadashi Firouzjaei, Mostafa: TF-ThP-21, 73
Dadon, Shay: AC-FrM-14, 82; AC-ThP-6, 64; AC-ThP-7, 64
Dagdeviren, Omur: NS-ThP-5, 69
Dagdeviren, Omur E.: SS-ThP-2, **71**
Daggupati, Venkata: EM-TuM-16, **24**
Dahanayakle, Ama: FUS-WeM-13, 41
Dahnovsky, Yuri: SS-MoA-7, 13
Daiyan, K. M.: 2D-WeM-2, 36
Dake, Linda: AS-ThP-3, 66
Dalba, Dominic: AM+EM+TF-ThM-13, 54
Daly, Brian: EL-ThA-6, 63
Damasceno Oliveira, Maykol Christian: 2D-ThP-16, 64
Dameron, Arrelaine: AP1+EL+PS+TF-FrM-4, **78**
Dandekar, Prajakta: BI1-TuM-4, 27; BI-ThP-5, 66
Daniel, Bright: SS-ThM-15, **50**; SS-ThP-1, **71**
Dantinne, Robin: TF1-TuA-5, 31
Darakchieva, Vanya: AS1+CA+EL-ThM-2, 49; EL-ThP-9, 71
Darbari, Zubin: SS-TuM-15, 21
Dardenne, Kathy: AC-FrM-10, 82
Das, Saptarshi: 2D-ThP-23, 64
Das, Shaon: AS1+CA+EL-ThM-3, 49
Das, Tridip: PS2-MoA-16, 14
Das, Ujjwal K.: EM-ThP-7, 67
Dasgupta, Neil: AP1+EL+PS+TF-FrM-5, 78; BT1+AS+CA+TF-ThM-8, 55; TF1-MoA-7, 16; TF2-MoA-16, **16**
Datta, Amit K.: BT1+AS+CA+TF-ThM-7, **55**
Davanco, Marcelo: PS2-WeM-17, 37
Davidson, Zoey: EM-TuM-14, 24
Davis, Dorian: MI-ThP-4, 68
Davis, John: TS-ThM-1, **56**
Davis, Robert: UN-ThP-11, 73
Dawley, Rebecca A.: 2D-ThM-8, 50
Dayan, Danny: AC-FrM-14, 82; AC-ThP-6, 64; AC-ThP-7, 64
de Carvalho, Tainara: TF-WeA-12, 45
De Jong, Arthur: AP+EL+MS+PS+TF-ThA-6, 60
de la Rosa, Cesar Javier Lockhart de la Rosa: 2D-ThA-2, 58
de Siervo, Abner: SS-MoM-3, **11**
De Silva, Anuja: PS2+EUV-TuA-10, 29
de Sousa, Duarte: NS-MoM-3, 9
De Yoreo, James: SS-FrM-12, 76
Debata, Suryakanti: 2D-WeM-3, 36; EM-WeA-4, **42**
DeBenedetti, William: AC-ThM-17, 56
DeChiara, Jake: QS-ThP-8, **70**
Decker, Kenneth: VT2-ThM-16, 57
Dedyulin, Sergey: TS-WeM-13, **41**
Deilmann, Thorsten: MI1-MoA-3, 17
Delegan, Nazar: NS-TuA-1, **33**
Delgado, Kaydence: TF-TuM-2, 23; UN-ThP-10, **73**
Delgado, Samuel: AIML1-ThM-8, 53
Della Negra, Serge: NS-ThP-12, 69
DeMott, Jessica: PS1-TuM-7, 22
Dempsey, Connor: QS-MoM-5, 10
Denbeaux, Greg: EUV-MoA-3, 15
Dendooven, Jolien: AIML1-ThM-7, 53; AP2+EL+PS+TF-TuA-13, 30
Deng, Hui: LS-MoM-5, 8
Denlinger, Jonathan: AC-ThP-5, **64**; LS-MoM-3, **8**
deQuilettes, Dane: AIML1-ThA-5, **61**
Dergham, Celine: PS1-TuA-1, 29
Derkyi, Nana: AIML3-FrM-7, 79
DeRoo, Casey: TF2-MoA-10, 16
Deshmukh, Rajendrasing: BI1-TuM-4, 27; BI-ThP-5, 66
Detavernier, Christophe: AIML1-ThM-7, 53; AP2+EL+PS+TF-TuA-13, **30**
Dev, Pratibha: 2D-ThA-4, 58; 2D-WeM-3, **36**; EM-WeA-4, 42
Devadasan, Dhilan: AS-WeM-2, 40
Devi, Raman: 2D-ThM-7, **50**; EM-WeA-6, 42
Devriendt, Katia: PS1-WeM-1, 37; PS2+EUV-TuA-13, 29
DEY, KOUSTAV: TS-WeA-3, 47
Dhekial-Phukan, Tina: PS1-TuM-4, 22
Dhir, Vijay: BT2+AS+SS+TF-FrM-14, 81
Dhong, Charles: BI1-TuM-1, **27**
Di Gianluca, Gabriele: QS-ThP-3, 70
Di Palma, Luigi: QS1-MoA-7, 12
Di Stadio, Gabriele: AS-WeM-16, 40
Diallo, Elhadji-Alhousseyni: AM2+EM+TF-FrM-10, 80
Dickens, Peter: AM2+EM+TF-FrM-13, **80**
Dickey, Beth: 2D-WeM-2, 36
Dickey, Elizabeth: AM+EM+TF-ThM-16, 54; AM+EM+TF-ThM-5, 54; AM+EM+TF-ThM-6, 54; AM+EM+TF-ThP-5, 65; NS-MoA-7, **18**
Dickey, Michael: GWR-MoM-8, 8
Diebold, Alain: GWR-MoM-2, **8**
Diebold, Ulrike: SS-TuA-13, 28; VT-ThP-4, 74
Dietrich, Paul: AS-WeM-1, 40; AS-WeM-6, **40**
Diez Perez, Ismael: MI2-MoA-11, **17**
DILER INAN, Sumeyye: TF+AP+EUV-FrM-6, 83
DiMauro, Lou: LS-ThP-1, 68
Dimitrov, Edgar: 2D-ThP-16, 64
Dindukurthi, Ganesh: AM+EM+TF-ThA-8, **62**
Ding, Zihao: PS2-ThM-16, 51
Dinh, Duc V.: EL-ThP-3, 71
Diniz, J.A.: AM2+EM+TF-WeA-10, 46; TF-ThP-23, 73
Diniz, José: AP+EL+MS+PS+TF-ThM-16, 52; PS-ThP-33, 70
Diniz, José Alexandre: EM-ThP-2, **67**
Dip, Anthony: PS2+EUV-TuA-14, 29
Dissanayake, Nadith: SS-ThA-5, 59; SS-ThM-7, 50
Ditter, Alexander: AC-ThM-16, 56
Do, Van: SS-MoM-6, 11; TF-TuM-15, **23**
Doerk, Gregory: AIML1-FrM-1, **79**
Dogan, Yunus: SS-MoA-14, 13
Dogan, Yunus E.: SS-MoA-15, 13
Dogariu, Arthur: AP+EL+PS+TF-ThP-6, 66
Doğruel, Tuğçe: UN-ThP-24, 73

Author Index

Dohnalek, Zdenek: AS1+CA+EL-ThM-7, 49; TF+AP+EUV-FrM-8, 83; TF-TuM-14, 23
Dohnálek, Zdenek: SS-FrM-14, 76; SS-ThA-4, 59
Doi, Kenta: PS1-WeA-1, 44; PS1-WeM-5, 37
Dombrowski, Eric: VT2-ThM-14, 57
Don Lokugan Hewage, Vishwa: SS-ThP-17, **71**
Donachie, Finley: QS1-MoA-9, 12
Donald, Scott: AC-ThM-15, 56
Donath, Markus: MI1-MoA-3, **17**
Dong, Xianchao: AM2+EM+TF-FrM-11, 80
Donnelly, Vincent: 2D-ThM-4, 50; AP+EL+MS+PS+TF-ThA-1, 60; AP1+EL+MS+PS+TF-TuA-9, 30; CA1-FrM-5, **75**
Donnelly, Vincent M.: AP+2D+EL+EM+PS+TF-WeA-10, 45; PS1-FrM-7, 77
Dorf, Leonid: PS2-ThM-16, 51
Dorman, Kyle: AS-WeM-15, 40; SE-WeM-4, 35
DORY, Jean-Baptiste: PS1-WeM-8, 37
Doty, Matthew: EM-ThP-6, 67
Douglass, Kevin: TS-ThP-5, 72; TS-WeM-4, 41; TS-WeM-5, 41; TS-WeM-6, **41**; VT-FrM-13, 83; VT-ThP-2, 74; VT-ThP-5, 74
Douglass, Steven: TF-TuM-7, **23**
Doumon, Nutifafa Y.: 2D+QS-TuM-16, 20
Dowben, Peter: AM2+EM+TF-FrM-12, 80; MI2-MoA-14, 17; SS-MoA-5, 13
Downey, Eoghan: LS-MoM-5, 8
Dozier, Jamar: BT+AS+CA+TF-ThP-4, 65
Drabo, Mebougna: BT+AS+CA+TF-ThP-4, 65
Drain, John: MI-MoM-7, **9**
Draney, Jack: AP1+EL+MS+PS+TF-TuA-9, 30
Draney, Jack S.: PS1-FrM-7, 77
Dreher, Paul: TF+AP+EUV-FrM-5, **83**
Drury, Daniel: EM-ThP-10, 68
Dryzhakov, Bogdan: 2D-ThP-15, **64**; EM-TuM-13, **24**; EM-WeA-5, 42
Du, Rongjia: SS-MoA-9, 13
Du, Shilling: QS1-MoA-1, **12**
Du, Xinyi: QS-ThP-3, 70; QS-ThP-4, **70**
Dua, Asare: AP+EL+PS+TF-ThP-8, **66**
DUAN, HUIDA: TF1-WeM-8, **39**
Dubi, Yonatan: QS-TuM-2, **20**
Dubu, Jonatan: MI2-MoA-15, 17
Dudy, Lenart: LS-ThP-2, 68
Duffield, Micah: AP+EL+PS+TF-WeM-15, **38**
Dulal, Prabin: AP+EL+MS+PS+TF-ThM-15, 52; EL-ThA-5, 63; EL-ThP-1, 71; EL-ThP-4, 71; EL-ThP-7, 71; EL-ThP-8, **71**
Dulal, Rajendra: AP1+EL+PS+TF-FrM-8, 78
Duma, Randy: AP1+EL+PS+TF-FrM-8, 78
Dunkelberger, Adam: PS2-MoA-17, 14
Dunuwila, Sanuthmi: EM-ThP-7, **67**
Duong, Phuc Long: MS-ThP-3, **68**; TF-TuM-16, **23**
Duong, Tam: TS-ThP-5, 72
D'Urso, Luisa: 2D-ThM-14, 50
Dursun, Burcu: TF2-MoA-10, 16
Dykas, Joshua: UN-ThP-2, **73**; UN-ThP-5, 73
Dykstra, Conner: LS-ThP-1, 68
Dziuban, Jan: VT-FrM-10, 83

— E —

E. Samuel, Raymond: TF-ThP-6, 72
Ebo-Quansah, Ignatius: MI2-MoA-14, 17
Eckel, Stephen: TS-ThM-4, 56; TS-ThP-2, 72; VT-FrM-15, **83**
Eder, Moritz: SS-TuA-10, **28**; SS-TuA-13, 28; SS-TuA-14, 28
Edgar, James: 2D-WeM-6, 36
Edgar, James H.: 2D-WeM-17, 36; 2D-WeM-7, 36
Edinger, Klaus: PS2+EUV-TuA-12, 29
Egan, Patrick: TS-TuA-12, **33**
Egly, Matt: PS-ThP-30, 70
Eisermann, René: TS-WeA-1, 47; TS-WeM-15, 41
Eizadynejad, Iman: BI-MoM-4, 7
Ejalonibu, Hammed: QS-ThP-11, **71**
Ekahana, Sandy Adhitia: 2D-ThP-13, 64; 2D-WeA-3, **43**; 2D-WeA-4, 43; LS-MoM-6, 8; LS-MoM-7, 8; LS-ThP-4, **68**
Eklund, Per: TF1-MoA-1, **16**
Elam, Jeffrey: 2D-ThM-6, 50; AP+EL+PS+TF-WeM-7, 38; BT1+AS+CA+TF-FrM-3, **81**; BT1+AS+CA+TF-ThM-5, 55
Elbertse, Robbie: NS-MoM-4, **9**
Elbertse, Robertus: QS-ThP-6, **70**
Elgad, Noam: AC-FrM-14, 82; AC-ThP-6, 64; AC-ThP-7, 64
El-Gharably, Youssef: UN-ThP-20, 73
Ellenbogen, Noah: FUS-ThP-1, 68
Eller, Michael: BI3-TuM-16, 27
Eller, Michael J: NS-ThP-12, 69
Eller, Michael J.: BI3-TuM-15, 27; CA-ThP-2, 67
Ellingson, Randy: EL-ThA-4, 63
Ellingson, Randy J.: EL-ThP-10, 71
Ellis, Chase: EM-ThP-13, 68
Ellis, James: AP+EL+MS+PS+TF-ThA-2, 60; PS1-MoA-1, **14**
Ellison, Christopher: EM-TuA-13, 32
Emerson, Hilary: AC-FrM-1, 82
Engel, Leeya: TS-ThP-5, 72
Engelhard, Mark: CA-ThP-5, 67
Engelmann, Sebastian: QS-ThP-10, **71**
Engeln, Richard: AP+EL+MS+PS+TF-ThA-7, 60
Engler, Anthony: EUV-ThP-7, 65
Engstrom, James: AP+EL+EM+PS+TF-TuM-8, **23**; AP2+EL+PS+TF-FrM-10, 78
Eoh, Hyeong Joon: PS-ThP-42, 70
Eom, Chang-Boem: MI2-MoA-10, 17
Eom, Daejin: 2D-WeA-11, **43**
Eom, Geon Woong: PS1-MoA-5, **14**
Eom, GeonWoong: PS1-MoA-4, 14
Eralp Erden, Tugce: LS-TuM-4, 25
Eren, Baran: LS-MoA-14, 18
Erickson, Tyler: AM1+EM+TF-FrM-3, **80**
Eskandari, Mohammad: SE-WeA-9, **42**
Eslamisaray, Mohammad Ali: PS2-MoA-14, **14**
Espinosa Castañeda, Rafael: AIML3-FrM-12, **79**
Ess, Daniel: SS-ThP-28, 72
Estroff, Lara: AS-TuA-8, 32
Ettouri, Rim: PS1-WeM-4, 37
Euler, Emily: UN-ThP-18, **73**
Evans, Prescott: EM-WeM-3, 40; SS-ThA-4, 59
Everhart, Brian: 2D-TuA-5, 28
Ezzy, Mariya: AM2+EM+TF-WeA-12, **46**

— F —

Fadoras, Dariane: TF1-TuA-5, 31
Failleau, Guillaume: TS-WeA-1, 47
Fairlamb, Olivia: EL-ThP-3, 71
Fairley, Neal: AS1+CA+EL-ThM-4, 49
Fakhraai, Zahra: TF2-MoA-11, **16**
Falvo, Joseph: QS2-MoA-14, 12
Famlonga, Luca: 2D-ThP-11, 64
Fanelli, Jeremy: MI-ThP-4, 68
Fang, Chen: PK+MS-FrM-12, 76
fantner, Georg: NS-MoA-13, 18
Faraon, Andrei: AM2+EM+TF-WeA-12, 46
Farber, Rachael: SS-ThA-5, **59**; SS-ThM-7, 50
Farhan, Md: 2D+QS-TuM-16, 20
Fatemi, Valla: QS1-MoA-1, 12; QS-ThP-3, 70; QS-ThP-4, 70
Fears, Kenan: BI2-TuM-7, 27; BI-MoA-11, 19; BI-MoA-14, 19; BI-ThP-10, 67; BI-TuA-4, 34; BP+BI-SuA-1, **4**
Fečík, Michal: SE-ThA-4, 58
Fedchak, James: VT-FrM-15, 83
Fedorov, Alexei: LS-MoM-3, 8
Fehrenbach, Tobias: FUS-WeM-17, 41
Fei, Zhe: NS-TuA-3, 33
Feigelson, Boris: EM-ThP-13, 68
Feng, Philip: MC-TuM-1, 24
Feng, Starr: UN-ThP-21, **73**
Feng, Yifu: AS-WeA-10, 47
Fenning, David: AIML2-FrM-6, 79
Fenouillet-Béranger, Claire: AM2+EM+TF-FrM-10, 80
Ferenc Segedin, Dan: TF-WeA-11, 45
Ferley, Thea: PS1-TuA-2, **29**
Fernandez, Luis: EUV-MoA-15, 15
Fernandez, Vincent: AS1+CA+EL-ThM-4, 49
Fernández-Villanueva, Estefanía: SS-WeM-3, 36
Fernando, K.A. Shiral: BI-MoM-4, 7
Ferrara, Milo V.: TF-TuM-13, 23
Ferraris, Sergio: EUV-MoA-16, 15; EUV-ThP-2, 65
Ferreira de Sá Codeço, Camilla: SS-TuA-1, **28**
Ferrer, Pilar: LS-ThP-8, 68; LS-TuM-4, 25
Ferroni, Paolo: FUS-TuA-14, 34
Ferry, Vivian: EM-TuA-13, 32
Ferryman, Amy: AS-WeA-9, **47**
Fessler, Wyatt: BI-MoA-15, **19**
Fest Carreno, Andres: 2D-ThP-16, 64
Feygelson, Tatyana: TF+AP+EUV-FrM-7, 83
Fields, Shelby: TF-TuM-4, **23**
Fillion, Matt: VT2-ThM-14, **57**
Filzmoser, Johannes: SS-TuA-10, 28; VT-ThP-4, 74
Finkel, Peter: MI-MoM-8, 9
Flaemmich, Michael: EUV-MoA-9, **15**
Flege, Jan Ingo: SS-ThP-32, 72
Fleischmann, Claudia: AS-WeM-7, 40
Fletcher, Ivan: AP1+EL+PS+TF-FrM-3, 78
Foadian, Elham: AIML-ThP-5, **65**; AIML-ThP-8, 66
Fonseca, Allan: BT2+AS+SS+TF-FrM-13, **81**
Fonseca, Jose: EM-WeM-14, 40; NS-MoA-9, 18
Fontecha, Daniela: TF-TuM-7, 23
Fontecha, Daniela R.: GWR-MoM-7, **8**
Fornero, Esteban: SS-ThM-17, 50; SS-TuM-15, 21
Forte, Giuseppe: 2D-ThM-14, 50
Foster, John: PS2-FrM-10, 77
Fox, Glen R.: EM-ThP-10, 68
Fraczak, Gloria: PS1-WeM-3, 37
Frammolino, Lisa: NS-MoM-3, 9
Francesconi, Lynn: AC-FrM-1, 82
Franchini, Cesare: SS-TuA-13, 28
Franco-Rivera, Giovanni: QS-MoM-6, 10
Frank, Martin M.: PS1-WeM-3, 37
Frankovich, Haley: UN-ThP-18, 73
Franz, Katherine: BI-MoA-11, 19; BI-MoA-14, 19
Frederick, Emily: AP+EL+PS+TF-ThP-10, **66**
Fried, Miklós: EL-ThA-7, 63; EL-ThA-9, 63
Friedman, Adam: NS-ThP-15, 69
Friedman, Adam L.: 2D-WeM-15, 36
Frolov, Sergey: QS-MoM-1, **10**; QS-MoM-4, 10; QS-MoM-5, 10; QS-TuM-6, 20
Frueh, Gavin: TF2-MoA-10, 16
Frunzio, Luigi: QS2-MoA-13, 12
Fuentes-Garcia, Melina: VT2-ThM-15, **57**
Fuerst, Thomas F.: FUS-WeM-5, 41
Fujita, Yuto: SS-ThM-6, 50
Fukasawa, Masanaga: AP+EL+EM+PS+TF-TuM-3, **23**
Fukumizu, Hiroyuki: PS2-TuM-15, **22**
Fulford, Jim: AP1+EL+PS+TF-FrM-3, 78
Fuller, Elliot: SS-MoA-6, 13
Funada, Shuji: PS1-TuM-3, 22

Author Index

— G —

Gai, Zheng: MI-MoM-3, 9; MI-MoM-7, 9
Gajdics, Marcell: TF2-MoA-13, **16**
Galante, Mario: MI2-MoA-11, 17
Galazka, Zbigniew: EL-ThP-9, 71
Gallagher, Emily: EUV-MoM-5, **7**
Gallet, Jean-Jacques: LS-ThP-2, 68
Gamachchi, Dilan: AM+EM+TF-ThM-13, 54
Gamachchi, Dilan M.: BT1+AS+CA+TF-ThM-7, 55
Gamble, Lara: BI3-TuM-14, **27**
Ganduglia-Pirovano, Maria Veronica: SS-WeM-3, **36**
Ganesh, Panchapakesan: NS-MoA-17, 18
Ganjam, Suhas: QS2-MoA-13, 12
Gann, Katie: EM-WeM-4, 40; TF+AP+EUV-FrM-7, 83
Ganta, Sathya: PS1-WeA-5, 44
Gao, Zirui: LS-MoA-3, 18
Garcia Villavicencio, Cecilia Julieta: PS2-FrM-11, 77
Garcia, Alvaro: PS1-TuM-4, 22
Garcia, Ashlee: QS-TuM-6, **20**
Garcia, Danah: VT-ThA-6, **63**
Garnier, Gennie: AM2+EM+TF-FrM-10, 80
Garrett, Noah T.: MI2-MoA-7, 17
Garrione, Julien: PS-ThP-39, 70
Garrison, Tessa: UN-ThP-16, 73
Gassilloud, Rémy: AM2+EM+TF-FrM-10, 80
Gaudet, Jonathan: MI-MoM-5, 9
Gauthier, Eric: AS-WeA-6, 47
Gauthier, Nicolas: AP+EL+PS+TF-WeM-1, 38
Gavrilov, Dmitri: LS-MoA-4, 18
Gayle, Amari: UN-ThP-9, **73**
Gazit, Oz M.: AP+EL+EM+PS+TF-TuM-13, **23**
Ge, Mingyuan: LS-MoA-3, 18
Gebbie, Matthew: SS-FrM-7, 76
Gebhart, Trey: VT2-ThM-13, **57**
Gebre, Sara: PS2-MoA-17, 14
Gebreyesus, G.: LS-MoM-3, 8
Geeson, Stephanie: PS-ThP-6, 69
Gellerup, Spencer: EM-WeA-5, **42**
Gellman, Andrew: NS-ThP-10, 69; SS-WeA-12, **43**
Gelman, Samuel: NS-MoA-13, 18
Gemini Peer Mohammad, Syed Ibrahim: TF-ThP-21, 73
George, Steven: AM+EM+TF-ThA-6, **62**; AP+2D+EL+EM+PS+TF-WeA-12, 45; AP+EL+PS+TF-WeM-15, 38; AP+EL+PS+TF-WeM-16, 38; AP+EL+PS+TF-WeM-8, 38
George, Steven M.: AP+EL+MS+PS+TF-ThM-17, 52
Georgieva, Violeta: PS1-WeM-1, **37**
Gerald II, Rex E.: TS-WeA-3, 47
Gerashchenko, Maksym: AS-TuM-17, 25
Gerashchenko, Maxsym: AS-ThP-15, 66
Gergaud, Patrice: PS-ThP-39, 70
Gerhard, Kim A.: AIML1-ThM-4, 53
Gérouville, Emilie: AS-WeM-6, 40
Getachew, Bezawit: TF2-TuA-11, **31**
Gevorgyan, Artur: VT1-ThM-5, 57
Ghaffari, Behnaz: PS1-TuM-7, 22
Gheraisou, Iulian: AIML3-FrM-7, 79
Ghodssi, Reza: GWR-MoM-3, **8**; MC-TuM-7, 24; MC-TuM-8, 24; UN-ThP-7, 73; UN-ThP-8, 73
Ghorbani, Morvarid: TF-ThP-15, 72
Ghosh, Abhishek: 2D-ThP-21, 64
GHOSH, RAPTI: 2D-ThM-16, **50**
Ghosh, Siddhartha: AS-WeA-9, 47
Gianluca, Gabriele: QS-ThP-4, 70
Gignac, Lynne M.: PS2-WeA-9, 44
Gil Romero, Jhonatan: AS-WeM-5, 40; EM-ThP-8, 67; PS1-TuM-6, **22**; TF-ThP-16, **72**
Gil, Hong Seong: PS-ThP-41, 70
Gill, Dale: VT1-ThM-4, 57
Gillum, Maxwell: NS-ThP-3, 69; NS-ThP-4, 69
Ginovska, Bojana: SS-ThA-4, 59
Giustino, Feliciano: AS1+CA+EL-ThM-3, 49
Glavin, Nicholas R.: 2D-TuA-5, 28
Glowacki, Frédérique: AM2+EM+TF-FrM-10, 80
Gnani Peer Mohamed, Syed Ibrahim: TF1-TuA-4, 31; TF-ThP-18, 73
Go, David: PS-ThP-16, 70; PS-ThP-18, 70
Gober, Cosmic: SS-ThP-22, **71**
Goddard III, William: PS2-MoA-16, 14
Goeke, Ronald: FUS-ThP-7, 68
Goetze, Joshua: EM-TuA-13, 32
Gofryk, Krzysztof: QS-ThP-7, 70
Gokhale, Vikrant: AM+EM+TF-ThM-15, 54
Golden, Byron: VT2-ThM-16, 57
Goldstein, Michael: TS-WeA-9, 47
Gomanko, Maksim: QS-MoM-4, 10; QS-TuM-6, 20
Gomez, Osma J.: GWR-MoM-7, 8
Gong, Cheng: 2D-ThA-1, **58**
Gonzales, Adrian: AC-ThM-15, 56
Gonzalez, Alexis: SS-TuA-11, 28; SS-TuA-12, **28**
Gonzalez, Juan: NS-ThP-7, 69
Goodge, Berit: TF-WeA-11, 45
Goodin, Aunic: PS2-MoA-16, **14**
Goodman, J: TF2-MoA-10, **16**
Goodwin, Eden: AIML1-ThM-5, **53**
Gopakumar, Gokul Nanda: EM-TuM-15, **24**
Gopalan, Venkatraman: AM+EM+TF-ThM-3, 54; AM+EM+TF-ThM-5, 54
Gordon, Angelique: EM-ThP-6, **67**
Gordon, Mark: EM-WeM-3, **40**
Gordon, Michael: PS2-MoA-13, **14**
Gorham, Justin: AS-TuM-13, **25**
Gorman, Jason: VT-FrM-14, 83
Gorokhovsky, Vladimir: SE-ThP-5, 65
Gorshanov, Vadim: AIML2-ThA-8, **61**
Gou, Xirui: MC-MoA-5, **19**
Gougousi, Theodosia: GWR-MoM-5, **8**
Gouma, Pelagia-Iren: NS-ThP-6, 69
Goumans, Fedor: AP1+EL+MS+PS+TF-TuA-5, **30**; TF-ThP-4, **72**
Goutierrez, Samuel: AM+EM+TF-ThP-2, 65; AS-WeM-5, 40
Govind, Niranjan: NS-TuM-5, 26
Govindaraj, Keerthana: MI2-MoA-7, 17
Graham, Daniel: BI3-TuM-14, 27
Grant, Jarred: SS-MoA-7, **13**
Graugnard, Elton: 2D-TuA-5, 28; AM+EM+TF-ThA-5, 62; AP+2D+EL+EM+PS+TF-WeA-9, 45
Graves, David: 2D-ThM-4, 50; AP1+EL+MS+PS+TF-TuA-9, 30; PS-ThP-22, 70; PS-ThP-7, 69
Graves, David. B.: AP+2D+EL+EM+PS+TF-WeA-10, 45; PS1-FrM-7, 77
Gravrand, Olivier: CA-ThP-6, 67
Gray, Alexander: LS-MoM-1, **8**
Gray, Alexander X.: 2D-ThP-13, 64
Gray, Ivan: MI-ThP-4, 68
Greczynski, Grzegorz: SE-WeM-6, 35
Greczynski, Grzegorz (Greg): SE-ThA-5, **58**
Green, Christoper: BI-MoM-1, 7
Green, Christopher: BI-MoM-4, 7; EM-TuM-14, 24
Green, Emanuel: AM2+EM+TF-WeA-12, 46
Greenaway, Ann: LS-ThP-3, 68
Greenberg, Benjamin: EM-ThP-13, **68**
Greene, Emily: EUV-MoA-16, 15; EUV-ThP-2, 65; PS-ThP-24, 70; PS-ThP-32, **70**
Greenough, Michelle: AC-ThM-15, **56**
Greer, Frank: AP+EL+PS+TF-WeM-6, 38
Gregorczyk, Keith: GWR-MoM-9, **8**; TF-TuM-7, 23
Gregorczyk, Keith E.: GWR-MoM-7, 8
Gregory, Ella: SS-WeA-6, 43
Grehl, Thomas: AS-WeA-3, **47**; TF-ThP-2, **72**
Greklek, Joshua: PK+MS-FrM-15, 76
Griguolo, Luca: MI-ThP-1, 68
Grinter, David: LS-ThP-3, 68
Grinter, David C.: LS-ThP-8, 68; LS-TuM-4, 25
Gros-Jean, Mickael: LS-MoA-7, 18
Gross, Atan: NS-MoA-14, 18
Größle, Robin: FUS-ThP-1, 68; FUS-TuA-8, 34
Grothen, Evan: SS-FrM-7, 76
Groven, Benjamin: 2D-ThA-2, 58; AM+EM+TF-ThA-3, 62; AP+2D+EL+EM+PS+TF-WeA-4, 45
Grubbs, Robert: 2D-ThA-2, **58**
Grutter, Peter: NS-MoA-15, 18
Grynko, Rostislav: EL-ThA-1, 63
Grzebyk, Tomasz: VT-FrM-10, 83
Grzeskowiak, Steven: EUV-MoA-13, 15
Gu, Genda: 2D-WeM-15, 36
Guan, Shaoliang: 2D-ThM-5, **50**; AS1+CA+EL-ThM-4, 49
Gudavalli, Ravali: AM+EM+TF-ThP-1, 65
Gude, Jack: EM-WeA-3, 42; EM-WeM-17, **40**
Gudmunsson, Jon Tomas: PS-ThA-4, **60**
Guha, Biswarup: TS-ThP-1, 72
Guha, Supratik: AP+EL+MS+PS+TF-ThA-5, 60
Gui, Yifan: PS2-ThM-15, **51**; PS2-TuM-17, 22
Guilbault, Alana: VT2-ThM-14, 57
Guillermier, Christelle: BI3-TuM-16, **27**; NS-ThP-12, **69**
Guisinger, Nathan: SS-MoA-3, **13**
Gull, Emanuel: LS-MoM-5, 8
Gunay, Ece: AM+EM+TF-ThM-16, **54**; NS-MoA-7, 18
Günay, Ece: AM+EM+TF-ThM-5, 54
Gundlach, Jens: TF-ThP-22, 73
Gundlach, Lars: EM-ThP-6, 67; MI-MoM-5, 9
Guner, Bugrahan: NS-ThP-5, **69**; SS-MoA-14, 13; SS-MoA-15, **13**; SS-ThP-2, 71
Gunnay, Ece: AM+EM+TF-ThM-6, 54
Gunnoe, T. Brent: SS-ThP-28, 72
Gunther, Olivia: AC-FrM-12, 82
Guo, Xiangyu: PS2-WeA-10, 44; PS-ThP-38, 70
Guo, Yucheng: LS-MoM-4, **8**
Guo, Zaibing: 2D-ThP-28, 64
Gupta, Atul: EM-WeM-13, 40
Gupta, Jay: LS-ThP-1, 68
Gupta, Niyati: UN-ThP-20, **73**
Gupta, Shiva: AIML-WeM-16, 53
Gupta, Sunny: 2D-ThP-9, **64**; EM-TuA-1, **32**
Gurtaran, Mikdat: SE-WeM-1, **35**
Gustavo, Frédéric: PS-ThP-39, 70
Gutierrez-Monje, Erick A.: AP+EL+EM+PS+TF-TuM-14, 23
Gyawali, Ghanashyam: TF-ThP-26, **73**; TF-ThP-27, 73

— H —

H.J. Kim, Richard: NS-TuM-17, 26
Ha, Taekyung: AIML-ThP-1, 65
Ha, Viet-Anh: AS1+CA+EL-ThM-3, 49
Hachtel, Jordan: AM+EM+TF-ThM-17, 54; NS-MoA-9, 18
Haeuser, Samuel: NS-TuM-17, **26**
Hagimoto, Yoshiya: PS1-MoA-3, 14
Haglund, Jessica: AM+EM+TF-ThA-4, **62**
Haider, Ali: PS2+EUV-TuA-10, **29**
Haines, Finley: SE-ThA-3, 58; SE-WeM-4, 35
Hajzus, Jenifer: EM-WeM-13, 40; EM-WeM-14, **40**; EM-WeM-15, 40
Halasz, Gabor: NS-MoM-5, 9
Halevy, Itzhak: AC-FrM-14, **82**; AC-ThP-6, **64**; AC-ThP-7, **64**
Hall, Margaret: TF-TuM-15, 23

Author Index

Ham, Dain: AIML2-FrM-5, 79
Ham, Hyung Chul: SS-MoA-17, 13; SS-ThP-27, 72
Ham, Jiwoong: TF2-WeM-17, **39**
Hamaguchi, Satoshi: PS1-FrM-6, 77
Hamidi, Nazila: SS-FrM-3, **76**; UN-ThP-16, 73
Hamlyn, Rebecca: AS2-ThM-17, 49
Hamui, Leon: AIML-ThP-9, 66
Hamza, Gabrielle: FUS-WeM-17, 41
Han, Huijun: SS-FrM-15, **76**
Han, Jimin: EM-TuA-11, 32; EM-TuA-12, 32
Han, Ming: TS-TuA-11, **33**
Han, Shu-Jen: QS1-MoA-7, 12
Han, Yong: NS-ThP-14, 69
Hanbicki, Aubrey: NS-ThP-15, 69
Hanbicki, Aubrey T.: 2D-WeM-15, 36
Haney, Paul: NS-MoM-3, 9
Hanle, Jackson: UN-ThP-20, 73
Hanley, Luke: AS-WeA-4, 47; BT-ThA-6, 62
Hann, Michael: 2D-ThP-14, 64
Hanrahan, Brendan M.: EM-ThP-10, 68
Hans, Marcus: SE-ThA-4, **58**; SE-WeM-6, 35
Hansen, Jasper: BI-MoM-3, 7
Hanson, Stacy: AS-WeA-1, 47
Hao, Maosheng: SS-TuA-10, 28
Haque, Asraful: AIML2-ThA-9, **61**
Haraldsen, Jason: 2D-WeA-12, 43
Harasawa, Ayumi: MI1-MoA-3, 17
Hardy, Matthew: AM1+EM+TF-FrM-3, 80
Harilal, Sivanandan: EUV-ThP-3, 65
Harris, Ben: PS1-MoA-1, 14
Harris, Benjamin: AP+EL+MS+PS+TF-ThA-2, **60**
Harris, Sara: AP1+EL+PS+TF-FrM-4, 78
Harris, Sumner: AIML2-ThA-9, 61; AIML-WeM-16, 53
Harris, Sumner B: AIML1-ThM-3, 53
Harris, Sumner B.: AIML1-ThM-1, **53**
Harrison, Aidan: AS-ThP-6, **66**
Harsh, Rishav: NS-MoM-3, 9
Hart, Jaime: AM+EM+TF-ThM-15, 54
Hart, James: AM1+EM+TF-FrM-3, 80
Hashimoto, Junichi: PS1-TuM-5, 22
Hashimoto, Makoto: LS-MoM-4, 8
Hashishin, Takeshi: AIML2-FrM-4, 79
Hassall, Geoffrey: AP+EL+MS+PS+TF-ThA-2, 60; PS1-MoA-1, 14
Hassan, Umer: BI-TuA-3, **34**; MC-ThP-1, **69**
Hatano, Yuji: FUS-WeM-7, **41**
Hatmin, Jenna: TF-WeA-11, 45
Hatridge, Michael: QS-MoM-5, 10
Hattrick-Simpers, Jason: AIML3-FrM-12, 79
Hauchecorne, Pauline: AM2+EM+TF-FrM-10, 80
Hausladen, Matthias: MC-ThP-3, 69
Hausmann, Dennis: AP+EL+EM+PS+TF-TuM-16, 23
Havela, Ladislav: AC-FrM-13, **82**
Hawker, Morgan: BI2-TuM-6, **27**; BI-MoA-17, 19; UN-ThP-15, 73
HAYASHI, Hisataka: PS1-WeM-3, 37
Hayashi, Hisataki: PS2-WeA-9, 44
Hayes, Parker: PS1-TuA-4, 29
Hayes, Sean: FUS-WeM-17, 41
Hays, Parker: 2D-ThM-1, **50**
He, Yunfei: NS-TuM-4, 26; NS-TuM-6, 26
Healy, James: VT-ThA-4, 63
Heben, Michael J.: EL-ThP-10, 71
Heckhoff, Tobias: AS-WeM-14, 40
Hedhili, Mohamed Nejib: SS-ThP-35, **72**
Hedrick, Brittany: PS2-WeM-13, **37**
Heine, Douglas: AP+EL+MS+PS+TF-ThM-7, **52**
Heiner, Benjamin: AC-ThM-13, **56**; AC-ThM-17, 56
Heintz, Olivier: AS1+CA+EL-ThM-4, 49
Held, Georg: LS-ThP-8, **68**; LS-TuM-4, **25**
Held, Julian: AP+EL+MS+PS+TF-ThA-7, 60
Helm, Rich: TF1-WeM-8, 39
Hendricks, Jay: VT-FrM-13, **83**; VT-ThP-2, 74; VT-ThP-5, 74
Hengstebeck, Robert: AS1+CA+EL-ThM-4, 49
Henkel, Torsten: AS-ThP-6, 66
Hennessy, John: AP1+EL+PS+TF-FrM-6, **78**
Hennick, Madison: UN-ThP-22, **73**
Henry, M. David: AM+EM+TF-ThM-4, 54; EM-ThP-11, 68; EM-ThP-4, 67; NS-ThP-8, 69
Heo, Subin: AP+EL+PS+TF-ThP-5, 66
Heo, Tae Wook: AC-ThM-15, 56
Herberholz, Jens: MC-TuM-7, 24
Heremans, Jean J.: TF-ThP-3, 72
Herman, Tobias: TS-ThP-2, 72
Hernandez, Raquel-Garza: BT1+AS+CA+TF-FrM-7, 81
Heron, John: TF-WeA-6, 45
Herring, Kylan: PS-ThP-20, 70
Herron, Emily: 2D-ThP-15, 64
Hersam, Mark: 2D-ThA-6, 58
Herschberg, Andrew: EUV-MoA-16, 15; EUV-ThP-2, 65; PS-ThP-24, **70**
Hervey, William: BI-MoA-14, 19
Hess-Dunning, Allison: MS-ThP-2, 68
Hetti Arachchige, Hirushan: SS-ThA-5, 59
Hetzel, Charles: VT2-ThM-16, 57
Hidalgo, Juanita: LS-TuM-1, **25**
Hie, James: PS2-WeA-11, 44
Hight Walker, Angela: NS-ThP-15, 69
Hilal, Fatima-Zahrae: PS1-WeM-4, 37
Hilfiker, Matthew: EL-ThA-1, **63**
Hinkle, Christopher: AM1+EM+TF-FrM-1, **80**
Hinshelwood, Michael: PS2+EUV-TuA-12, **29**
Hirai, Shunya: AP+EL+PS+TF-WeM-13, 38
Hirchenhahn, Pierre: BI3-TuM-15, **27**; CA-ThP-2, **67**
Hitchcock, Dale: FUS-WeA-1, 48; FUS-WeA-4, **48**; FUS-WeM-2, 41
Hite, Jennifer: TF+AP+EUV-FrM-7, 83
Hladik, Joseph: 2D-WeM-2, **36**
Ho, Tuan: SS-FrM-12, 76
Hoang, Binh: GWR-MoM-6, 8
Hoang, John: AP+EL+PS+TF-WeM-17, 38
Hobart, Karl: EM-WeM-14, 40
Hocevar, Moira: QS-MoM-5, 10
Hock, Adam: AP+EL+PS+TF-ThP-8, 66
Hodgson, Jeffrey: TF-WeA-5, 45
Hoerauf, John: AM+EM+TF-ThA-7, **62**
Hoffenberg, Louis: AP1+EL+MS+PS+TF-TuA-9, **30**
Hoffenberg, Louis E. S.: PS1-FrM-7, 77
Hofmann, Stephan: 2D-ThM-5, 50
Hoghooghi, Nazanin: TS-WeM-4, 41; TS-WeM-7, **41**
Holcomb, Mikel: AS-TuA-5, 32; MI-ThP-4, **68**
Holler, Logan: PS1-TuA-4, **29**
Holzapfel, Damian: SE-ThA-4, 58
Honda, Fuminori: AC-FrM-13, 82
Hong, Jong Woo: PS-ThP-42, 70
Hong, Sabeen: 2D-ThP-3, **64**
Hong, Xia: SS-MoA-5, 13
Hong, Yerin: 2D-ThP-1, **64**
Hood, Zachary: BT1+AS+CA+TF-FrM-3, 81
Hoogedoorn, Niels: BT1+AS+CA+TF-ThM-6, 55
Hopstaken, Marinus: AP+EL+MS+PS+TF-ThM-8, 52
Hori, Masaru: AP+EL+PS+TF-WeM-13, 38; EUV-ThP-10, 65; PS2-TuM-13, 22
Horiguchi, Kazunori: PS1-WeM-3, 37; PS2-WeA-9, 44
Horne Jr., Cornell: TF+AP+EUV-FrM-1, 83
Horváth Endre, Zsolt: TF2-MoA-13, 16
Horwood, Corie: FUS-WeM-17, 41
Hossain, Maimur: AIML2-FrM-6, 79
Hossain, Md Tanzid: PS2-FrM-12, **77**
Hossain, Mohammad Rahat: SS-WeM-17, **36**
Hossain, Mohammad Tomal: EM-ThP-6, 67
Hoti, Ramiz: VT-ThA-3, 63
Houben, Ralph: AP+EL+MS+PS+TF-ThA-7, **60**
Hovden, Robert: 2D-ThP-1, 64
Howard, Chris: NS-MoA-17, 18
Howard, Thomas: VT-ThP-2, 74; VT-ThP-5, **74**
Howell, Caitlin: BI-MoA-15, 19
Hsiao, Shih-Nan: PS2-TuM-13, **22**
Hsieh, Hsiang-Yu: MC-ThP-2, 69
Hsieh, Po Chun: AM+EM+TF-ThM-5, 54
Hsieh, Pochun: AM+EM+TF-ThM-3, 54
Hsu, Julia: EUV-MoA-7, 15
Hsu, Julia W.P.: 2D-ThP-28, 64
Hsueh, Hung-Chung: 2D-ThA-5, 58
Hu, Xingjian: 2D-TuA-14, **32**
Hu, Zekun: NS-TuM-4, **26**; NS-TuM-6, 26
Hua, Chengyun: NS-MoM-5, 9
Huang, Chenyao: PS1-ThM-6, 51; PS2-ThM-15, 51; PS2-TuM-17, **22**; PS-ThP-26, 70
Huang, Haibo: TF1-WeM-8, 39
Huang, Jie: TS-WeA-3, 47
Huang, Shuoyuan: QS2-MoA-13, 12
Huang, Xiaocheng: AP+EL+EM+PS+TF-TuM-7, **23**
Huang, Xiaojing: LS-MoA-3, 18; LS-MoA-4, 18
Huang, Zhujun: QS1-MoA-3, 12
Hückmann, Lukas: SS-ThP-30, 72
Hues, Steven: AM+EM+TF-ThA-5, 62
Hues, Steven M.: 2D-TuA-5, 28; AP+2D+EL+EM+PS+TF-WeA-9, 45
Hughes, Shaun: VT2-ThM-14, 57
Hulbert, Steven L.: QS2-MoA-13, 12
Huli, Lior: EUV-MoA-15, 15
Hull, Rachel: BI-MoA-16, 19
Hultermans, Ronald: AS-TuA-12, 32
Hultman, Lars: SE-WeM-6, 35
Hummon, Matthew: TS-ThP-2, 72
Humphrey, Joshua: BI-MoA-16, 19
Hung Chen, Hao: AM1+EM+TF-FrM-5, 80
Hung, Linda: AIML3-FrM-10, **79**
Hunt, Adrian: LS-TuM-6, 25
Hunter, Jerry: AIML1-ThA-4, 61
Hur, Min: PS1-MoA-4, 14; PS1-MoA-5, 14
Hurd, Alexandra: TF1-MoA-7, **16**
Hussain, Aftab: VT+FUS-WeA-11, 48
Hussey, Daniel: BT-ThA-3, 62
Hutchison, Phillips: SS-ThP-18, 71
Hutman, Daniel: UN-ThP-7, 73; UN-ThP-8, **73**
Hwang, Jun-Young: AP+EL+PS+TF-ThP-1, 66
Hwang, Sooyeon: QS2-MoA-13, 12
Hwang, Sooyoon: QS-ThP-9, 71
Hyosun, Lee: SS-ThP-13, 71

— I —

I. Altman, Eric: SS-MoA-14, 13
Iacono, Silverio: AS-ThP-6, 66
Ievlev, Anton: AS1+CA+EL-ThM-5, **49**; TF-ThP-15, 72
Ievlev, Anton V.: AS-WeA-4, 47
Ihelfeld, Jon: EM-ThP-11, 68
Ihlefeld, Jon: AM+EM+TF-ThM-17, 54; AM+EM+TF-ThM-7, 54
IIDA, Shin-ichi: AS-WeM-16, **40**
Ikeda, Taishi: PS-ThA-3, 60
Iken, Thomas: 2D-ThP-7, 64; EM-WeM-6, 40
Ikeoluwa Adegbite, Peace: MI2-MoA-14, 17
Imai, Yusuke: PS1-TuM-8, **22**; PS2-TuM-13, 22
Imhof, Alec: EM-WeM-13, 40
Imperiale, Christian: NS-MoA-16, 18
Indika Senevirathna, Matara Kankanamge: AS1+CA+EL-ThM-3, 49
Inho, Seong: PS1-MoA-6, 14

Author Index

Innocent-Dolor, Jon-L: EUV-MoM-7, 7
Inoue, Kenichi: PS1-TuM-8, 22; PS1-WeA-3, 44; PS1-WeM-6, 37
Inoue, Koji: FUS-WeM-7, 41
Ip, Nathan: PK+MS-FrM-15, 76
Irvin, Patrick: 2D-WeM-2, 36; MI2-MoA-10, 17
Isak, Lee: PS1-MoA-6, 14
Ishida, Kanta: AP+EL+MS+PS+TF-ThM-4, 52
Ishihara, Takuya: PS1-FrM-6, **77**
Ishikawa, Kenji: AP+EL+PS+TF-WeM-13, 38; EUV-ThP-10, 65; PS1-FrM-8, 77; PS1-TuM-8, 22; PS1-WeA-3, 44; PS1-WeM-6, **37**
Ishimura, Hiroaki: AP+EL+PS+TF-WeM-3, 38
Ishizaka, Tadahiro: AM1+EM+TF-WeA-3, 46
Iski, Erin: SS-FrM-3, 76; UN-ThP-16, 73
Islam, Arephin: SS-TuA-5, **28**
Islam, Zahidul: PS2-MoA-16, 14
Ismach, Ariel: 2D-TuA-11, **28**
Itagaki, Naho: PS1-WeM-7, 37
Iung, Tom: LS-MoA-7, 18
Iwamoto, Keigo: PS1-FrM-6, 77
Iwase, Taku: PS+AP-MoM-6, 10
Izawa, Masaru: AP+EL+PS+TF-WeM-13, 38

— J —

J. Eller, Michael: TF+AP+EUV-FrM-3, 83
J. Kushner, Mark: PS1-ThM-6, 51
J. Podraza, Nikolas: AP+EL+MS+PS+TF-ThM-15, 52
Jackman, Eoin: PS1-WeM-1, 37
Jackson, Ian: UN-ThP-24, **73**; UN-ThP-7, 73; UN-ThP-8, 73
Jackson, Mackenzie: BI2-TuM-6, 27
Jackson, Thomas: TF2-MoA-10, 16
Jacobs, Alan: EM-ThP-13, 68
Jacobson, David: BT-ThA-3, **62**
Jada, Ravi: BI3-TuM-15, 27
Jafarian, Hesam: TF-ThP-21, 73
Jain, Aakanksha: TF-ThP-11, **72**
Jain, Ratnesh: BI1-TuM-4, 27; BI-ThP-5, 66
Jaiswal, Suman: 2D+QS-TuM-13, 20
Jakub, Zdenek: SS-TuA-13, 28
Jalali, Nargol: 2D-WeA-5, 43
Jalan, Bharat: EM-WeM-7, 40; MI-MoM-1, **17**; NS-MoA-4, 18
Jamali, Pegah: BI-TuA-3, 34
Jamarkattel, Manoj: EL-ThP-10, 71
Jambaldinni, Shruti: PS2+EUV-TuA-10, 29
James Szecsody, James: AC-FrM-1, 82
JAMIN-MORNET, Clémence: PS1-WeM-8, 37
Jamka, Elizabeth: SS-TuM-7, 21
Janes, Dustin: EUV-MoM-7, **7**
Jang, Dong June: AS-TuA-8, 32
Jang, Hyun Bong: PS-ThP-42, **70**
Jang, Seonhee: AM+EM+TF-ThP-2, **65**; AM1+EM+TF-FrM-4, **80**; AS-WeM-5, 40; EM-ThP-8, 67; PS1-TuM-6, 22; TF-ThP-16, 72
Jang, Subin: LS-ThP-2, **68**; LS-TuM-6, 25
Janotti, Anderson: EM-WeM-7, 40
Janulaitis, Nida: SS-FrM-14, 76
Janz, Siegfried: TS-WeM-13, 41
Janzen, Andreas: SS-ThP-20, 71
Jardine, Andrew: 2D-ThP-20, 64
Jariwala, Deep: AM+EM+TF-ThP-1, 65; NS-ThP-17, **69**; NS-TuM-3, 26; NS-TuM-4, 26; NS-TuM-6, 26
Jarzembski, Amun: SE-ThA-3, 58; SE-WeM-4, 35
Jaszewski, Samantha: AM+EM+TF-ThM-4, 54; EM-ThP-11, **68**; EM-ThP-4, 67
Jeckell, Collin: PS+AP-MoM-5, 10; PS-ThP-30, **70**
Jelinek, Pavel: SS-MoA-11, **13**
Jena, Debdeep: AS1+CA+EL-ThM-3, 49
Jendryka, Jakub: VT-FrM-10, 83
Jenkins, Tom: PS-ThA-6, 60
Jensen, Devon: AP+EL+PS+TF-ThP-6, 66
Jensen, James: AP+EL+EM+PS+TF-TuM-8, 23; AP2+EL+PS+TF-FrM-10, **78**
Jeon, Hyeon Gyeong: AS-ThP-4, 66
Jeon, HyeonGyeong: AS-ThP-5, **66**
Jeon, Nari: TF2-WeM-17, 39
Jeon, YongBaek: AP+EL+MS+PS+TF-ThA-3, 60; PS-ThP-35, 70
Jeon, Yujin: SS-TuM-16, 21
Jeong, hyunwoo: SS-ThP-7, **71**
Jeong, Jaehoon: PS-ThA-3, 60
Jeong, Seung Gyo: EM-WeM-7, 40
Jeong, Wonnyoung: PS1-ThM-7, 51
Jeong, Youjin: AIML2-FrM-5, 79
Jernigan, Glenn: AP+EL+MS+PS+TF-ThM-3, 52; AP+EL+PS+TF-ThP-10, 66
Jha Thakur, Amitayush: LS-MoA-15, **18**; LS-ThP-7, **68**
Jhankar, Soumyaranjan: QS-ThP-2, **70**
Jiang, Abigail: TF-WeA-11, **45**
Jiang, Nan: NS-ThP-2, 69; SS-MoA-13, **13**; SS-ThM-5, 50
Jiang, Yuchao: PS2+EUV-TuA-13, **29**
Jiban, Md Shakil: EM-TuA-4, 32
Jihan, Son: SS-ThP-13, 71
Jin, Dasol: AS-ThP-4, 66
Jin, Eric: AM1+EM+TF-FrM-3, 80
Jin, Lianhua: AP+EL+MS+PS+TF-ThM-4, 52
Jinhyeok, Jang: PS1-MoA-6, **14**
Jo, Hyeongjin: TF-ThP-20, 73
Jo, Na Hyun: LS-MoM-4, 8; LS-MoM-5, 8
Jodhka, Parmeet: BI-MoA-16, 19
Joe, Raymond: PS2+EUV-TuA-14, 29
Johns, James: AS2-ThM-15, 49
Johnson, Amalya: AIML3-FrM-10, 79
Johnson, Grant E.: NS-TuM-5, 26
Johnson, Luke: AM+EM+TF-ThM-17, 54
Johnson, Michael: AP+EL+MS+PS+TF-ThA-4, 60; AP+EL+MS+PS+TF-ThM-3, 52; AP1+EL+PS+TF-FrM-7, 78; PS1-FrM-4, 77; PS1-ThM-8, 51; PS1-TuA-3, **29**; TF+AP+EUV-FrM-7, 83
Johnson, Noah J.J.: TS-WeA-9, **47**
Johnson, Ryan: TS-ThP-2, **72**
Johnstone, Samuel: SS-FrM-7, **76**
Johs, Blaine: EM-ThP-10, 68
Jois, Chetan: PS2-WeM-15, **37**
Jois, Sharadh: 2D-ThA-4, 58; 2D-WeM-15, **36**
Jones, Jessica: AP+EL+PS+TF-WeM-7, **38**
Jordan, Caleb: QS1-MoA-7, 12
Jordan, Matthew: MC-TuM-2, 24
Jorge, Pedro: SS-TuM-1, 21
Josell, Daniel: AP1+EL+PS+TF-FrM-4, 78
Joseph, Eric: PS2-WeA-9, 44; EUV-MoM-3, **7;** PS1-WeM-3, 37
Joshi, Anand: 2D-ThM-13, 50; BT2+AS+SS+TF-FrM-11, **81**; SE-WeA-10, 42
Joshi, Shweta: AM2+EM+TF-FrM-11, 80
Joshi, Unnati: SE-WeA-10, **42**
Jouneau, Pierre-Henri: AS-WeA-6, 47
Jourdan, Nicolas: AM1+EM+TF-WeA-3, 46
Jozwiak, Chris: 2D-WeA-1, **43**; 2D-WeA-3, 43; 2D-WeA-4, 43; LS-MoA-9, 18; LS-MoM-4, 8; LS-MoM-5, 8; LS-MoM-6, 8; LS-MoM-7, 8; LS-ThP-4, 68
Ju, Sang Hyeon: SS-ThP-27, 72
Junda, Maxwell: EL-ThA-3, **63**
Junf, Dong: LS-ThP-2, 68
Jung, Eun Sun: PS-ThP-35, 70
Jung, Eun Young: PS-ThP-2, **69**
Jung, Haegeon: PS-ThP-17, **70**
Jung, Huiwon: SS-ThP-4, 71
Jung, Jaehoon: SS-FrM-15, 76
Jung, Jongkeun: LS-ThP-2, 68
Jung, Sun Kyu: AP+EL+PS+TF-ThP-5, 66; AP+EL+PS+TF-ThP-9, 66
Jung, Wonbong: PS1-TuM-1, 22
Jungfleisch, Benjamin: EM-ThP-6, 67
Jungfleisch, M. Benjamin: MI-MoM-5, 9
Juni Ferreira, Marcelo: VT1-ThM-5, **57**
Junige, Marcel: AP+EL+MS+PS+TF-ThM-17, **52**; AP+EL+PS+TF-WeM-15, 38
Jurczyk, Brian: PS+AP-MoM-5, 10

— K —

K. Mainali, Madan: AP+EL+MS+PS+TF-ThM-15, 52
Kafley, Utsab: 2D-TuA-12, **28**
Kaganovich, Igor: 2D-ThP-2, 64; AP1+EL+MS+PS+TF-TuA-9, 30
Kagimura, Aya: PS2-WeA-9, 44
Kahagalla Dewage, Nipun: SS-WeM-16, **36**
Kaissi, Hosni: QS-TuM-6, 20
Kalanyan, Berc: AP2+EL+PS+TF-FrM-13, 78; AP2+EL+PS+TF-FrM-15, 78; CA2-FrM-13, 75
Kalinin, Sergei: AIML1-ThA-1, 61
Kallistova, Anna: AS1+CA+EL-ThM-4, 49
Kallos, Itai: SS-TuM-5, 21
Kaluarachchi, Prabodika N: EL-ThP-10, 71
Kamaliya, Bhaveshkumar: TF-ThP-15, 72
Kamataki, Kunihiro: PS1-WeM-7, 37
Kammeraad, Joshua: AIML1-ThM-6, 53
Kampf, Nir: NS-MoA-13, **18**
Kamphorst, Rens: TF-ThP-2, 72
Kan, Daisuke: AM+EM+TF-ThM-16, 54
Kanakamedala, Senaka: **AM+EM+TF-ThP-6**, 65; EM-TuA-8, 32
Kandratsenka, Alexander: SS-TuM-5, 21
Kaneko, Taku: SS-ThP-34, 72
Kanfer, David: PS1-ThM-6, 51; PS-ThP-26, **70**
Kang, Donghyeon: BT1+AS+CA+TF-FrM-3, 81
Kang, Hyon Chol: LS-TuM-6, 25
Kang, Jeong-Jin: AP+EL+PS+TF-ThP-1, 66
Kang, Junesuk: PS-ThA-7, **60**
Kang, Kyungnam: 2D+QS-TuM-13, 20
Kang, Kyung-Tae: AP+EL+PS+TF-ThP-1, 66
Kang, MinChul: AM+EM+TF-ThM-7, 54
Kang, Minkook: EM-TuA-5, **32**
Kang, Sae Hyun: LS-TuM-6, 25
Kang, Woo Seok: PS1-MoA-5, 14
Kang, WooSeok: PS1-MoA-4, 14
Kankanamge, Nethmi: MI-ThP-4, 68
Kanneboina, Venkanna: AP+EL+MS+PS+TF-ThM-15, **52**; EL-ThA-5, 63; EL-ThP-4, 71
Kao, I-Hsuan: 2D-ThP-13, 64; 2D-WeA-3, 43; 2D-WeA-4, 43; 2D-WeM-16, 36; 2D-WeM-17, 36; 2D-WeM-6, 36; 2D-WeM-7, 36; 2D-WeM-8, 36
Kaphle, Amrit: EUV-MoA-13, 15
Kar, Gouri Sankar: 2D-ThA-2, 58
Karagiannakis, Anna: AS-WeA-4, **47**
Karahashi, Kazuhiro: PS1-FrM-8, 77
Karahashi, Kazuo: PS1-FrM-6, 77
Karajgikar, Gowri: FUS-WeA-6, 48
Karakoti, Ajay: BT-ThA-1, **62**; CA-ThP-5, 67; EUV-ThP-3, **65**
Karim, Zia: PK+MS-FrM-12, 76
Karimi Aghda, Soheil: SE-ThA-4, 58
Karthäuser, Jana: BI-MoM-3, 7
Karunarathne, Indeewari: AM+EM+TF-ThM-13, 54
Karunarathne, Indeewari M.: BT1+AS+CA+TF-ThM-7, 55
Kasai, Taiga: PS+AP-MoM-7, 10
Kasai, Tatsuya: AM1+EM+TF-FrM-5, 80
Kassu, Aschalew: BT+AS+CA+TF-ThP-4, 65
Katakumbura, Nadeesha: EL-ThA-4, 63; EL-ThP-10, 71
Katarivas Levy, Galit: AC-FrM-14, 82; AC-ThP-6, 64; AC-ThP-7, 64

Author Index

Kathaperumal, Mohanalingam: PK+MS-FrM-13, 76
katoch, Jyoti: 2D-ThP-13, 64
Katoch, Jyoti: 2D-WeA-3, 43; 2D-WeA-4, 43; 2D-WeM-16, 36; 2D-WeM-17, 36; 2D-WeM-6, 36; 2D-WeM-7, 36; 2D-WeM-8, 36; LS-MoM-6, 8; LS-MoM-7, 8; LS-ThP-4, 68
Katzer, Douglas: AM1+EM+TF-FrM-3, 80
Kaul, Anupama: 2D-TuA-12, 28
Kaushik, Siddhant: AM+EM+TF-ThP-7, **65**
Kaushik, Vidya: PS-ThP-3, 69; QS-ThP-3, 70
Kawaguchi, Kaishu: MI1-MoA-3, 17
Kawaguchi, Mark: PS1-FrM-1, **77**
Kawahara, Kouta: PS1-WeA-1, 44; PS1-WeM-5, 37
Kawakami, Roland: 2D-TuA-1, **28**; LS-ThP-1, 68
Kawamoto, Akiko: PS1-MoA-3, 14
Kayama, Yasuyuki: PS-ThA-3, 60
Kaye, Andrew P.: AP+EL+PS+TF-WeM-3, 38
Kayyalha, Morteza: 2D-WeM-2, 36
Keeney, Patrick: 2D-WeA-12, 43
Kegelmeyer, Laura: FUS-WeM-17, 41
Kelemen, Paul: EM-WeA-1, 42
Keller, Nick: EL-ThA-1, 63
Kellermann-Stunt, Max: PS2-ThM-17, **51**; PS-ThP-5, 69
Kelley, Kyle: EM-TuM-13, 24; EM-WeA-5, 42
Kelling, Sven: SE-ThP-1, 65
Kelly, Blaine D.: AIML1-ThM-4, 53; BT1+AS+CA+TF-ThM-7, 55
Kelly, Frank: EM-WeM-4, 40
Kenney, Jason: PS-ThA-8, 60
Kerby, Ian: AP+2D+EL+EM+PS+TF-WeA-3, **45**
Kersch, Alfred: LS-MoA-7, 18
Kersten, Holger: PS-ThP-27, 70
Keseroglu, Ilker: NS-ThP-6, **69**
Keşkekler, Ata: NS-MoM-4, 9
Kessels, Erwin: AP+EL+EM+PS+TF-TuM-6, 23; AP+EL+MS+PS+TF-ThA-6, **60**; AP+EL+MS+PS+TF-ThA-7, 60; AP1+EL+MS+PS+TF-TuA-4, 30
Kessels, Wilhelmus M. M.: AP+EL+EM+PS+TF-TuM-15, 23
Keth, Jane: EUV-MoA-8, **15**
Ketkar, Eeshan: AP+EL+MS+PS+TF-ThA-5, 60
Keum, Yesub: SS-ThP-4, 71
Khaji, Maryam: PS1-WeM-5, **37**
Khalid, Shoaib: 2D-ThP-2, 64
Khan, Aqeel: TF1-WeM-3, **39**
Khan, Asif: AP2+EL+PS+TF-FrM-12, 78
Khan, Mohammad Arham: TF1-TuA-4, **31**; TF-ThP-18, **73**; TF-ThP-21, 73
Khan, Nazifa Z.: TF1-WeM-2, **39**
Khan, Zuhair: AP+EL+MS+PS+TF-ThA-1, 60
Khanna, Mihir: MC-MoA-1, 19
Khanolkar, Amey: QS-ThP-7, 70
Khatiwoda, Nihal: AM+EM+TF-ThA-3, **62**
Khatun, Salma: NS-TuA-3, 33
Khayam, Sina: AS1+CA+EL-ThM-2, **49**
Khoury, Anthony A.: AP+EL+EM+PS+TF-TuM-14, 23
Khromchenko, Vladimir: AP2+EL+PS+TF-FrM-13, 78
Kida, Nozomi: PS1-FrM-6, 77
Kihara, Yoshihide: PS1-TuM-3, 22; PS2-TuM-13, 22
Kilic, Ufuk: AP+EL+MS+PS+TF-ThM-1, 52; AS1+CA+EL-ThM-2, 49; AS1+CA+EL-ThM-3, 49; EL-ThA-8, **63**; EL-ThP-9, 71
Killelea, Dan: SS-TuA-11, 28; SS-TuA-12, 28; SS-TuM-4, **21**
Kim, Andrew: NS-MoA-9, 18
Kim, Chan Ho: PS-ThP-42, 70
Kim, Changhae: SS-ThM-17, **50**
Kim, Chun-Sik: AP+EL+PS+TF-ThP-1, 66
Kim, Daehyun: PS-ThP-11, 69
Kim, Dae-Woong: PS1-MoA-4, 14; PS1-MoA-5, 14
Kim, Dasol: SS-ThP-6, **71**
Kim, Dongwoo: LS-ThP-2, 68; LS-TuM-6, 25
Kim, GyuTai: AP+EL+MS+PS+TF-ThA-3, 60
Kim, Gyu-Tai: PS-ThP-35, 70
Kim, Hacksung: BT1+AS+CA+TF-FrM-3, 81
Kim, Hee-Eun: PS2-MoA-14, 14
Kim, Hongyeon: AIML2-FrM-5, 79
Kim, Hyeong-U: TF2-WeM-17, 39
Kim, Hyun-Tae: TS-ThM-8, 56
Kim, In-Joong: PS1-TuM-1, 22
Kim, Jeong Hwan: PS1-TuM-4, 22
Kim, Jeong Yun: SS-ThP-27, 72
Kim, Jeongjin: LS-ThP-2, 68; SS-TuA-3, 28
Kim, Jeongsoo: PS1-WeM-1, 37; PS2+EUV-TuA-13, 29
Kim, Ji Man: SS-ThP-3, 71
Kim, Jiyoung: 2D-ThP-28, 64; EUV-MoM-8, 7
Kim, Jongbeom: AIML2-FrM-6, 79
Kim, Junghoon: AP+EL+MS+PS+TF-ThA-3, 60; PS-ThP-35, 70
Kim, Kyung Min: AM+EM+TF-ThM-8, 54
Kim, Kyungjin: TF-ThP-20, 73
Kim, Kyungmin: LS-ThP-2, 68; LS-TuM-6, 25
Kim, Louis: PS1-FrM-5, 77
Kim, Min-zy: SS-ThP-3, 71
Kim, Moon J.: 2D-ThP-28, 64
Kim, Myung Hwa: AS-ThP-4, 66; AS-ThP-5, 66
Kim, Nam: GWR-MoM-7, 8
Kim, Namhee: AS-ThP-4, **66**; AS-ThP-5, 66
Kim, Seon Hye: AIML2-FrM-5, 79
Kim, Seongeun: LS-TuM-6, 25
Kim, Seongyeon: PS-ThP-37, 70
Kim, Seoyeon: GWR-MoM-8, 8
Kim, Soomin: SS-TuM-16, **21**
Kim, Soukyoon: 2D+QS-TuM-16, 20
Kim, Sungjoon: 2D-ThM-6, **50**
Kim, Sungmin: NS-MoM-3, 9
Kim, Tae Won: PS2-FrM-12, 77
Kim, Tae Yong: SS-ThP-3, 71
Kim, TaeIn: PS-ThP-35, 70
Kim, TaeJoon: AP+EL+MS+PS+TF-ThA-3, 60; PS-ThP-35, 70
Kim, Taewoo: BT1+AS+CA+TF-FrM-3, 81
Kim, Wonjoong: AP2+EL+PS+TF-FrM-14, 78
Kim, Yong Jin: SS-ThP-3, 71; SS-ThP-4, 71
Kim, Yongjo: AIML2-FrM-5, 79
Kim, Young: EL-ThP-2, 71
Kim, Young Heon: TF2-WeM-17, 39
Kim, Young Hoon: AIML2-FrM-5, 79
Kim, Youngji: TF-ThP-15, 72
Kim, Youngwook: EM-TuA-11, **32**; EM-TuA-5, 32
Kimura, Yuga: FUS-WeM-7, 41
King, David: SS-MoA-7, 13; SS-ThP-21, 71
Kinnami, Ryosuke: PS1-WeM-7, 37
Kino, Alexander: PS-ThP-37, **70**
Kirichenko, Alex: QS1-MoA-7, 12
Kirina Claesson, Yulia: TF-ThP-3, **72**
Kirsch, Kristian: VT-FrM-12, 83
Kirste, Ronny: EM-WeA-2, 42
Kisslinger, Kim: EM-WeM-5, 40; QS2-MoA-13, 12
Kitching, John: TS-ThP-2, 72
Kitsu Iglesias, Luis: LS-ThP-3, 68
Kjeldsen, Henrik: TS-WeA-1, 47
Klabbers, Freek: AP1+EL+MS+PS+TF-TuA-4, 30
Klein, Brianna: AM2+EM+TF-FrM-13, 80
Klein, Dahlia: NS-MoM-1, **9**
Klement, Lexi: BI-MoA-16, 19
Klenam, Desmond: AIML3-FrM-7, 79
Klimov, Nikolai: TS-ThP-1, 72; TS-ThP-5, 72; TS-WeM-4, **41**; TS-WeM-5, 41; TS-WeM-7, 41; TS-WeM-6, 41
Knaian, A.: FUS-ThP-9, 68
Knápek, Alexandr: MC-ThP-3, 69
Knapkiewicz, Paweł: VT-FrM-10, 83
Knoops, Harm: AP+EL+MS+PS+TF-ThA-6, 60
Ko, Akiteru: EUV-MoA-13, 15
Ko, Minkyung: TF2-WeM-17, 39
Ko, Myeongchan: AM+EM+TF-ThM-8, **54**
Ko, Suyoung: PS-ThP-19, **70**
Ko, Wonhee: NS-MoA-17, 18; NS-MoM-5, 9; NS-MoM-6, **9**
Kobayashi, Shoji: PS1-MoA-3, 14
Kobayashi, Tadamasa: PS1-WeA-1, 44; PS1-WeM-5, 37
Kobayashi, Yohei: MI1-MoA-3, 17
Koçak, Yusuf: AS1+CA+EL-ThM-4, 49
Koch, Frieder: AS-WeM-14, 40
Kodan, Sonika: SE-ThP-9, 65
Koel, Bruce: FUS-WeM-13, 41
Koester, Steven J.: 2D-ThM-8, 50
Kofuji, Naoyuki: PS+AP-MoM-6, 10
Koga, Kazunori: PS1-WeM-7, **37**
Koh, Hyeongjun: QS2-MoA-13, 12
Kolacz, Jakub: EM-TuM-14, 24
Kolasinski, Robert: FUS-TuA-10, **34**; FUS-WeM-4, 41
Koli, Uday: BI-ThP-5, 66
Kolmakov, Andrei: CA2-FrM-13, 75; CA-ThP-4, **67**; PS1-MoA-9, **14**; PS-ThP-27, 70
Kolmer, Marek: NS-ThP-14, **69**; NS-TuA-3, 33
Kolomiets, Alexandre: AC-FrM-13, 82
Kolorenc, Jindrich: AC-FrM-5, **82**; SS-ThP-11, **71**
Komesu, Takashi: SS-MoA-5, 13
Kondeti, V S Santosh K: PS2-ThM-16, **51**
Kondo, Takeshi: MI1-MoA-3, 17
Kondusamy, Aswin: LS-MoM-5, 8
Kong, Casey: FUS-WeM-17, 41
Kong, Dejia: NS-TuM-5, **26**
Kong, Lingda: QS-ThP-3, 70; QS-ThP-4, 70
Konidena, Aadi: MI2-MoA-13, **17**
Koo, Ja-Yong: 2D-WeA-11, 43
Kosaka, Reo: EUV-MoA-15, 15
Koschny, Thomas: NS-TuM-17, 26
Kose, Rickmer: SE-ThP-1, 65
Kossoy, Elizaveta: PS2-WeA-11, 44
Kostko, Oleg: EUV-MoM-8, 7; TF+AP+EUV-FrM-3, 83
Kotakemori, Hisashi: PS-ThA-3, 60
Kotru, Sushma: MC-ThP-4, 69
Kotschenreuther, Mike: FUS-WeM-13, 41
Kouidri, Samy: AP+EL+MS+PS+TF-ThA-5, 60
Koukina, E.: FUS-ThP-9, 68
Kouzminov, Dimitry: AS-WeA-5, **47**
Kozen, Alexander: EL-ThP-5, 71; FUS-WeA-3, 48; TF-ThP-5, 72; TF-TuM-2, 23; TF-TuM-3, 23; UN-ThP-10, 73; UN-ThP-5, 73
Kozen, Alexander C.: UN-ThP-2, 73
Kozioziemski, Bernard: FUS-WeM-17, 41
Kozlova, Olga: TS-ThM-5, **56**
Kraushofer, Florian: SS-TuA-10, 28; SS-TuA-13, 28
Krawicz, Alexandra: EUV-MoA-13, 15
Krayev, Andrey: 2D-ThM-2, **50**
Krenek, Stephan: TS-WeA-1, **47**; TS-WeM-15, 41
Kronast, Florian Kronast: 2D-ThP-13, 64
Kropp, Gillian: BI2-TuM-7, **27**
Krüger, Peter: MI1-MoA-3, 17
Krylyuk, Sergiy: 2D-ThA-4, 58
Krysztof, Michał: MC-ThP-3, 69; VT-FrM-10, **83**
Kuang, Wenzhu: MI2-MoA-11, 17

Author Index

Kubik, Alexzandria: BI2-TuM-6, 27
Kuboi, Nobuyuki: PS1-MoA-3, **14**
Kuehnel, Lucas R.: AIML1-ThM-4, 53; AP+EL+EM+PS+TF-TuM-14, **23**
Kuila, Debasish: PS2-MoA-16, 14
Kuk, Su Keun: SS-MoA-17, 13
Kukkadapu, Ravi: CA-ThP-5, 67
Kumar Bandapelli, Ravi: 2D-WeM-6, 36
Kumar, A. Madhan: SE-WeM-1, 35
Kumar, Amit: NS-TuA-4, **33**
Kumar, CH. S. S. Pavan: TS-WeM-6, 41
Kumar, Dhananjay: TF-ThP-26, 73; TF-ThP-27, 73
Kumar, Hemant: AP2+EL+PS+TF-FrM-11, 78
Kumar, Narender: AM1+EM+TF-FrM-5, **80**
Kumar, Pawan: 2D-ThA-2, 58
Kumar, Prabhat: PS2-FrM-12, 77
Kumar, Rajeev: NS-TuM-4, 26
Kumar, Raman: QS-TuM-5, **20**
Kumar, Ravi: 2D-WeM-16, 36
Kumar, Revati: EUV-ThP-9, 65
Kumar, Sanjay: SE-WeM-6, 35
Kumar, Santosh: LS-ThP-3, 68; LS-TuM-4, 25
Kundu, Asish: SS-ThM-3, 50
Kuroda, Kenta: MI1-MoA-3, 17
Kushner, Mark: PS1-ThM-8, 51; PS-ThP-26, 70
Kushner, Mark J.: AP1+EL+MS+PS+TF-TuA-8, 30; PS1-ThM-3, 51; PS1-WeM-5, 37; PS2-ThM-15, 51; PS2-ThM-17, 51; PS2-TuM-17, 22; PS-ThP-5, 69
Kutbee, Arwa: SS-ThP-35, 72
Kuwabara, Tatsuya: FUS-WeM-7, 41
Kuwahara, Kenichi: PS+AP-MoM-7, 10
Kwon, Deuk-Chul: PS-ThP-10, 69
Kwon, Hyuk Jae: SS-MoA-17, 13; SS-ThP-27, 72
Kwon, Jaehong: 2D-ThM-4, **50**
Kwon, Jaehong (Russell): AP+2D+EL+EM+PS+TF-WeA-10, 45
Kwon, Soon-Yong: 2D-ThA-7, 58
Kývala, Daria: SS-ThP-11, 71

— L —

L. Friedman, Adam: 2D-ThA-4, 58
La Mendola, Diego: 2D-ThP-11, **64**
Lábadi, Zoltán: EL-ThA-7, 63; EL-ThA-9, 63
Lacanea, Giulia: 2D-ThM-14, 50
Lado, Jose: NS-MoM-5, 9
Lagasse, Samuel: EM-WeM-14, 40
LaGasse, Samuel W.: 2D-WeM-15, 36
lagin, Adam: SS-TuA-13, 28
Lagin, Adam: VT-ThP-4, 74
Lagle, Richard: BT+AS+CA+TF-ThP-4, 65
LAGRAVE, Jules: PS1-WeM-8, 37
LaHaye, Matthew: AQS-SuA-10, **4**
Lahiri, Nabajit: SS-FrM-12, 76
Lahne, Jacob: TF1-WeM-8, 39
Lai, Rebecca: MI2-MoA-14, 17
Lai, Yung Priscilla: MC-TuM-8, **24**
Lainez, Ivan: QS2-MoA-14, 12
Lake-Speers, Melinda: MS-ThP-2, 68
Lakmal, Isuru: EL-ThP-10, 71
Lal, Vinita: SS-WeM-15, 36
Lam, Nicolas: AM+EM+TF-ThM-7, 54
LaManna, Jacob: BT-ThA-3, 62
Lamberty, Zachary D.: BI1-TuM-3, 27
Lambrick, Sam: 2D-ThP-20, 64
Lamontagne, Christopher: EM-WeM-13, 40
Lan, Kai-Wei: BT1+AS+CA+TF-FrM-5, 81
Lang, Andrew: AM1+EM+TF-FrM-3, 80; PS1-FrM-4, 77
Lang, Maik: EM-WeM-3, 40
Langner, Markus: TF+AP+EUV-FrM-3, 83
Lannon, John: PK+MS-FrM-8, 76
Lanza, Giulia: VT1-ThM-4, 57
Larson, Reagan: BI-MoA-17, **19**; UN-ThP-15, 73
Larson, Steven: AS-WeM-15, 40; FUS-ThP-7, **68**
Larson, Virginia: AS-WeM-17, 40
Laschewsky, Andre: BI-MoM-3, 7
Lasseter, John: CA2-FrM-11, 75
Lathrum, Kenneth: AM+EM+TF-ThP-2, 65; AM1+EM+TF-FrM-4, 80; AS-WeM-5, **40**; EM-ThP-8, **67**; PS1-TuM-6, 22; TF-ThP-16, 72
Latsko, Jeremy: TS-WeM-1, **41**
LaVerne, Jay: AC-FrM-1, 82
Lavigne, Erin: EUV-MoA-17, **15**
Law, Stephanie: 2D-ThP-19, 64; 2D-ThP-22, 64; 2D-ThP-23, 64; 2D-TuA-3, 28; AIML2-ThM-15, 53; AIML-WeM-13, **35**; EM-TuM-15, 24
Lawall, John: VT-FrM-14, 83
Lawrence, David: AM1+EM+TF-FrM-6, 80
Lawrie, Benjamin: NS-MoM-5, 9
Lawter, Amanda: AC-FrM-1, 82
Lawton, Jack: TF-TuM-13, **23**
Le Cun, Elouan: AM2+EM+TF-FrM-10, **80**
Le, Duy: 2D-WeA-4, 43
Le, Kevin: BI-MoA-14, 19
Le, Long: EL-ThP-2, 71
Le, Son: NS-ThP-15, **69**
LeBeau, James: QS-ThP-8, 70; QS-ThP-9, 71
Leblanc, Chloe: NS-TuM-4, 26
Ledger, Drew: TF-ThP-5, **72**; TF-TuM-3, 23
Lee, Brian: AIML2-ThM-13, **53**; SS-ThM-17, 50
Lee, Byungchan: AP2+EL+PS+TF-FrM-14, 78
Lee, Chi Hun: SS-MoA-17, **13**; SS-ThP-27, **72**
Lee, Da Gyung: AIML2-FrM-5, 79
Lee, Daeyeon: BP+BI-SuA-5, **4**
Lee, Dong Kyu: EM-WeM-7, 40
Lee, Dongkyu: 2D-ThA-7, 58
Lee, Dongmin: PS-ThP-15, **70**
Lee, Geuntak: PS2-ThM-16, 51
Lee, Gun-Do: 2D-ThA-7, 58
Lee, Hae June: **PS-ThP-14**, 70; PS-ThP-15, 70
Lee, Hanbee: AIML2-FrM-5, 79
Lee, Han-Bo-Ram: AP2+EL+PS+TF-FrM-14, 78
Lee, Hyeong-Cheol: AP+EL+PS+TF-ThP-1, 66
Lee, Hyosun: SS-ThP-12, 71; SS-ThP-6, 71; SS-ThP-7, 71; SS-ThP-8, 71
Lee, Hyunjae: PS1-ThM-3, 51
Lee, Isak: PS1-ThM-7, 51
Lee, Jaesung: MC-MoA-9, 19; MC-TuM-1, 24
Lee, Jaeyong: PS-ThA-3, 60
Lee, Jeong-Min: TF+AP+EUV-FrM-4, **83**
Lee, Jinwon: NS-MoM-4, 9
Lee, Jong-Min: SS-MoA-17, 13; SS-ThP-27, 72
Lee, Joy S.: 2D-ThP-28, 64
Lee, Jyh-Wei: SE-WeM-3, **35**
Lee, Kuei-Yi: 2D-ThP-21, 64
Lee, Kun-Hyung: AP+EL+PS+TF-ThP-1, 66
Lee, Ming-Hao: 2D-ThA-5, 58
Lee, Minhyeok: AP2+EL+PS+TF-FrM-14, 78
Lee, Minjong: EUV-MoM-8, 7
Lee, Minjoo Larry: TF+AP+EUV-FrM-1, 83
Lee, Minseok: SS-ThP-5, **71**
Lee, Philip (Sanghyun): NS-ThP-8, **69**
Lee, Rinus: PS2-WeM-15, 37
Lee, Sang Bok: GWR-MoM-7, 8; TF-TuM-7, 23
Lee, Sangho: AP+EL+PS+TF-ThP-9, **66**
Lee, SangHo: PS1-MoA-4, 14; PS1-MoA-5, 14
Lee, Sang-Ho: AP+EL+PS+TF-ThP-1, 66
Lee, Sanghyun: AM+EM+TF-ThM-4, **54**; EM-ThP-4, 67
Lee, Seong Hyun: AP+EL+PS+TF-ThP-5, 66; AP+EL+PS+TF-ThP-9, 66
Lee, Seunggu: AS-ThP-9, 66
Lee, Seungmin: AS-WeA-11, 47
Lee, SeungMin: PS-ThA-1, **60**
Lee, Sohyun: EM-WeA-1, 42
Lee, Won-Il: TF+AP+EUV-FrM-3, 83
Lee, Yeonsong: SS-ThP-3, **71**
Lee, Yerin: SS-ThP-4, **71**
Lee, Yongil: PS-ThP-10, **69**
Lee, Yoonsun: AIML2-FrM-5, 79
Lee, Youngmi: AS-ThP-5, 66
Lee, Youngseok: PS1-ThM-7, 51
Lee, Yun Hyeong: AIML2-FrM-5, 79
Lee, YunTae: PS-ThA-3, 60
Leem, Jaehoon: PS-ThA-3, 60
Lefloch, François: PS-ThP-39, 70
Lekavicius, Ignas: EM-WeM-14, 40; EM-WeM-15, 40
Lenert, Andrej: AP1+EL+PS+TF-FrM-5, 78
Lenox, Megan: EM-ThP-11, 68
Leonard, Anna: AP+EL+PS+TF-ThP-7, **66**; EM-WeM-16, **40**
Leong, Icelene: 2D-TuA-5, **28**
Lercel, Mike: EUV-MoM-1, **7**
Letchworth-Weaver, Kendra: UN-ThP-18, 73; UN-ThP-19, 73; UN-ThP-23, 73
LEVALOIS-GUTZMACHER, Joelle: BT2+AS+SS+TF-FrM-15, 81
Levene, Hannah: AS1+CA+EL-ThM-4, 49
Levine-Miles, Jonathan: TF+AP+EUV-FrM-7, 83
Levy, Jeremy: 2D-WeM-2, 36; MI2-MoA-10, 17
Levy, Joshua: EM-TuM-14, **24**; MC-TuM-8, 24
Lewis, Faith: SS-TuA-13, 28; SS-TuA-14, **28**
Lewis, Faith J: SS-TuA-10, 28
Lew-Kiedrowska, Helena: TF-TuM-15, 23
Lew-Kiedrowski, Helena: SS-MoM-6, 11
Li, An-Ping: NS-MoA-17, 18
Li, Chaoran: SS-TuM-8, 21
Li, Chia-Lin: SE-WeM-3, 35
Li, Gengnan: SS-ThA-3, **59**; SS-TuM-15, 21
Li, Hong: LS-ThP-3, 68
Li, Hu: PS2+EUV-TuA-14, **29**
Li, Huanyong: AS1+CA+EL-ThM-4, 49
Li, Jian: EM-WeM-3, 40
Li, Jin: AP2+EL+PS+TF-TuA-13, 30
Li, Lan: AP+2D+EL+EM+PS+TF-WeA-3, 45
Li, Meng: AIML2-ThM-13, 53
Li, Po-Chiao: SS-FrM-6, 76
Li, Qing: MC-MoA-5, 19
Li, Qiuyang: LS-MoM-5, 8
Li, Ruipeng: SS-FrM-12, 76
Li, Ruoshui: QS2-MoA-13, 12
Li, Shuya: LS-ThP-3, 68
Li, Tianshu: AM2+EM+TF-FrM-11, 80
Li, Wu: PS1-FrM-8, 77
Li, Xiane: LS-TuM-5, **25**
Li, Xiaosong: AC-FrM-1, 82
Li, Xiaoxu: AS-WeA-10, 47; SS-FrM-12, 76
Li, Yan: QS-ThP-5, **70**
Li, Yiyang: 2D-ThP-1, 64
Li, Yue: AP+EL+PS+TF-ThP-8, 66
Li, Zhao: AS2-ThM-17, 49
Li, Zhicheng: 2D-ThP-9, 64
Li, Zonglun: EM-ThP-7, 67
Liang, Hanyuan: TF2-MoA-10, 16
Libisch, Florian: SS-TuA-10, 28
Libuda, Joerg: SS-MoM-4, **11**
Liddle, Alexander: CA1-FrM-1, **75**
Liepe, Matthias: SS-MoM-6, 11
Lietz, Amanda: PS1-ThM-4, 51; PS1-ThM-6, 51
Lietzow, Ralph: FUS-ThP-1, 68
Ligato, Chris: MC-MoA-6, **19**
Lill, Thorsten: PS1-FrM-5, 77; PS2-FrM-12, 77
Lim, Dong Kyun: MS-ThP-1, **68**
Lim, Hojoon: LS-ThP-2, 68; LS-TuM-6, 25
Lim, Juhwan: 2D-ThP-1, 64

Author Index

Lim, Norleakvisoth: PS2-MoA-13, 14
Lim, Seokhyun: PS1-TuM-1, 22
Lim, So-Young: EM-TuA-12, 32
Lim, Yeneul: SS-ThP-7, 71; SS-ThP-8, **71**
Lima, Farihatun Jannat: EL-ThP-3, **71**
Lin, Bonnie: QS-ThP-8, 70
Lin, Chi-Yun: PS2-WeA-11, **44**
Lin, Chuan-Fu: BT2+AS+CA+TF-ThM-13, **55**; GWR-MoM-6, 8
Lin, Jiayue: AS2-ThM-15, 49
Lin, Kuang-I: 2D-ThA-5, 58
Lin, Melinda: TF+AP+EUV-FrM-3, 83
Lin, Min: 2D-ThP-20, 64
Lin, Ming-Tzer: MC-ThP-2, **69**
Lin, Quyang: PS1-WeM-1, 37
Lin, Tyler: UN-ThP-16, **73**
Lin, Zong-Hong: AS-TuA-4, 32
Lindberg, Aria: UN-ThP-1, **73**
Lindblad, Dane: AP1+EL+PS+TF-FrM-4, 78
Linford, Matthew: AS-TuM-17, **25**; AS-WeM-1, 40
Linford, Matthew R.: AS-ThP-15, 66; UN-ThP-12, 73
Linthicum, William: BI-ThP-2, 66
Liston, Connor: PS-ThP-6, 69
Litwin, Peter: AM+EM+TF-ThM-15, 54; AM1+EM+TF-FrM-3, 80; AP1+EL+PS+TF-FrM-7, 78; PS1-FrM-4, **77**; PS1-ThM-8, 51
Liu, Bangzhi: EM-ThP-10, 68
Liu, Bo-Hong: SS-FrM-6, **76**
Liu, Boyao: 2D-ThP-20, 64
Liu, Cong: AP+EL+PS+TF-ThP-8, 66; TF-TuM-5, 23
Liu, Eric: EUV-MoA-13, **15**; EUV-MoA-15, 15
Liu, Eric Z.: NS-TuM-5, 26
Liu, Kuan-Ting: AS-TuA-8, 32
Liu, Lili: SS-FrM-12, 76
Liu, Mingzhao: QS1-MoA-3, 12; QS1-MoA-4, **12**; QS2-MoA-13, 12; QS2-MoA-17, 12
Liu, Shukai: QS-MoM-3, **10**
Liu, Teris: PS1-TuM-4, 22
Liu, Wenhao: 2D-ThP-13, 64; 2D-WeM-17, 36; LS-MoM-5, 8
Liu, Xiaohua: TF1-WeM-2, 39
Liu, Yongtao: EM-ThP-3, **67**; NS-MoA-11, **18**
Liu, Zhaoyu: LS-MoM-4, 8
Livingston Large, Timothy: AS1+CA+EL-ThM-4, 49
Lizano, Francisco: SS-TuM-7, **21**
Lizarbe, Alvaro: AS-TuM-17, 25
Lizarbe, Alvaro J.: UN-ThP-12, 73
Lobre, Clément: CA-ThP-6, 67
Lodeiro, Lucas: AP+EL+EM+PS+TF-TuM-16, 23
Lodge, Sam: VT-ThA-4, 63
Loku Kankanamge, Nethmi: AS-TuA-5, 32
Lomker, Patrick: CA-ThP-12, **67**
Lömker, Patrick: CA2-FrM-12, **75**
Long, David: TS-ThM-4, 56
Long, Nick: AS-ThP-6, 66
López, Isidoro: AS1+CA+EL-ThM-4, 49
Lorenz, Jonas: NS-TuM-5, 26
Lorincik, Jan: AC-FrM-14, 82; AC-ThP-6, 64; AC-ThP-7, 64
Losego, Mark: AP2+EL+PS+TF-FrM-12, 78; PK+MS-FrM-13, 76; TF1-TuA-1, **31**; TF1-TuA-2, 31; TF1-TuA-3, 31; UN-ThP-3, 73
Lou, Bih-Show: SE-WeM-3, 35
Loup, Virginie: AM2+EM+TF-FrM-10, 80
Louque, Kaleigh: CA2-FrM-11, 75
Loveday, Matthew: AP+EL+MS+PS+TF-ThA-2, 60
Lu, Deyu: **AIML2-ThM-13**, 53
Lu, Donghui: LS-MoM-4, 8
Lu, Haoran: QS-ThP-3, 70
Lu, Jia: AS-ThP-7, **66**
Lu, Ming: LS-MoA-3, 18
Lu, Tzu-Ming: NS-MoA-9, 18
Lü, Xiang: EL-ThP-3, 71
Lu, Xin: TS-WeA-1, 47
Lu, Yen-Tien: EUV-MoA-13, 15; EUV-MoA-15, 15
Lu, Yu-Jung: NS-TuM-6, 26
Luan, Pingshan: AS-WeM-4, 40
Lubin, Christophe: LS-MoA-7, 18
Lubner, Sean: AS-ThP-10, 66
Lucas, Tammy: PS2-WeM-17, 37
Luckett, Roman: AIML-WeM-16, 53
Lukter-Lee, Katie: EUV-MoA-13, 15
Lundwall, Marcus: CA-ThP-12, 67
Luo, Han: PS1-TuM-4, 22; PS-ThA-8, 60
Luo, Xiaolong: GWR-MoM-4, **8**; MS-ThP-3, 68; TF-TuM-16, 23
Lustemberg, Pablo G.: SS-WeM-3, 36
Lüttgenau, Bernhard: TF+AP+EUV-FrM-3, 83
Lv, Bing: 2D-ThP-13, 64; 2D-WeM-17, 36; 2D-WeM-8, 36; LS-MoM-5, 8
Lyle, Luke A. M.: EM-WeA-1, 42

— M —

M. Narayan, Dushyant: EUV-MoM-8, 7
M. Rappe, Andrew: TF-ThP-18, 73
M. Sayed, Doha: AS-WeM-17, 40
M. Stephen, Gregory: 2D-ThA-4, 58
M. Zughaier, Susu: NS-TuA-4, 33
MA, Fengbo: NS-TuA-4, 33
Ma, Haowei: MS-ThP-2, **68**
Ma, Jun: LS-MoA-4, 18
Ma, Qiong: 2D-WeA-3, 43; 2D-WeM-13, **36**
Ma, Zhihao: PS-ThP-8, **69**
MacAyeal, Dan: TF-TuM-3, 23
MacAyeal, Daniel: TF-ThP-5, 72; TF-TuM-2, **23**; UN-ThP-10, 73
Macco, Bart: AP+EL+MS+PS+TF-ThA-7, 60
Machin, Graham: TS-TuA-8, **33**
Mack, Chris: EUV-MoA-5, **15**
Mack, Paul: AS-WeM-13, **40**; AS-WeM-2, 40; AS-WeM-3, 40
Mackie, Cameron: NS-MoA-16, 18
Mackley, Rob: AC-FrM-1, 82
Macknojia, Ali Zayaan: SE-WeA-9, 42; SE-WeM-2, **35**
Mackus, Adriaan: AP+EL+EM+PS+TF-TuM-16, 23
Mackus, Adriaan J.M.: AP+EL+EM+PS+TF-TuM-15, 23
Mackus, Adrie: AP+EL+EM+PS+TF-TuM-6, 23; AP+EL+MS+PS+TF-ThA-6, 60; AP1+EL+MS+PS+TF-TuA-4, 30
Madan, Divenaa: AIML2-FrM-6, 79
Madanchi, Ali: AP1+EL+PS+TF-FrM-5, 78
Madathil, Karthika: LS-MoA-14, **18**
Mahadik, Nadeemullah: EM-WeM-13, 40
Mahafa, Tshepo: FUS-WeA-6, 48
Mahapatra, Mausumi: NS-ThP-11, 69; NS-ThP-3, 69; NS-ThP-4, 69
Mahdavipour, Bahram: PS-ThA-4, 60
Maheshwari, Prateek: AIML1-ThA-4, 61
Mahjouri-Samani, Masoud: 2D+QS-TuM-13, 20
Mahmoodinezhad, Ali: SS-ThP-32, **72**
Mai, Thuc: NS-ThP-15, 69
Main, Daniel: PS-ThA-6, **60**
Mainali, Madan: EL-ThP-4, 71
Mainali, Madan Kumar: EL-ThA-5, **63**
Maingi, Rajesh: FUS-WeM-13, 41
Majetich, Sara: UN-ThP-21, 73
Majumdar, Amlan: PS2-WeA-9, 44
Majumder, Erica: CA-ThP-5, 67
Makaju, Rebika: QS-MoM-6, 10
Maki, Rintaro: AM+EM+TF-ThM-16, 54
Makin, Robert: QS-ThP-7, 70
Makoto, Sekine: PS1-TuM-8, 22
Maksymovych, Petro: NS-MoM-5, **9**; NS-ThP-9, **69**
Malasi, Aman: EM-WeA-6, 42
Malkaj, Partizan: VT-ThA-3, 63
Malmbeck, Rikard: AC-FrM-10, 82
Malyshev, Oleg: VT-ThA-7, 63
Mammadzada, Vagif: AM1+EM+TF-FrM-8, 80
Manabe, Yuta: PS1-TuM-5, 22
Mane, Anil: BT1+AS+CA+TF-FrM-3, 81
Manikantan Sudharma, Jahnavi: BT1+AS+CA+TF-ThM-5, **55**
Manimunda, Praveena: CA-ThP-11, **67**
Mann, Jennifer: AS2-ThM-15, 49; AS-ThP-7, 66
Manna, Rahul: TF-ThP-20, 73
Manning, Nicolas: NS-ThP-1, **69**
Mannix, Andrew: EM-TuA-3, **32**
Manoharan, Dharshan: EUV-MoA-3, **15**
Mantha, Kameswara: TF-ThP-28, 73
Mao, Yuanbing: EM-TuM-16, 24; TS-TuA-13, **33**
Mar, Lucas: AIML2-FrM-6, 79
Marbach, Hubertus: PS2+EUV-TuA-12, 29
Marchack, Nathan: AP+EL+MS+PS+TF-ThM-8, 52; PS1-WeM-3, 37
Marcus, Charles: QS1-MoA-3, 12
Marcus, Matthew: AC-FrM-12, 82
Maredla, Tarun: AM1+EM+TF-FrM-7, 80
Marget, Emily: VT2-ThM-14, 57
Maria, Jon-Paul: 2D-WeM-2, 36; AM+EM+TF-ThM-1, **54**; AM+EM+TF-ThM-3, 54; AM+EM+TF-ThM-5, 54; AM+EM+TF-ThM-6, 54; AM+EM+TF-ThP-5, 65; AS-TuA-3, 32; NS-MoM-3, 9; QS-ThP-8, 70; QS-ThP-9, 71; TF1-MoA-6, 16; TF2-MoA-15, 16; TF-ThP-15, 72; TF-WeA-12, 45; TF-WeA-5, 45; TF-WeA-6, 45
Marom, Noa: 2D-WeA-3, 43
Marquez Rios, Nestor: TF-WeA-12, **45**
Marshall, Eleni: VT-ThA-7, **63**
Marshall, Jordan: AIML1-ThA-1, 61; AIML3-FrM-8, **79**
Marsteller, Alexander: FUS-TuA-8, 34
Martin Hernandez, María José: TS-ThM-7, 56
Martin, Benoit: AP+EL+PS+TF-WeM-1, 38
Martin, Kira: QS-TuM-6, 20
Martin, Richard M.: LS-MoM-3, 8
Martinez, Eugénie: CA-ThP-6, 67
Martinez, J.: SS-MoM-8, 11
Martinez, Oscar: FUS-TuA-13, 34
Martinson, Alex: AP+EL+PS+TF-ThP-8, 66; TF-TuM-5, 23
Marzo, Tiziano: 2D-ThP-11, 64
Mashiko, Yudai: PS+AP-MoM-6, **10**
Maslar, James: AP2+EL+PS+TF-FrM-13, **78**; AP2+EL+PS+TF-FrM-15, 78; CA2-FrM-13, 75
Mason, John R.: SS-ThP-14, **71**
Mason, Sara E.: AS2-ThM-16, **49**; SS-ThM-17, 50; SS-TuA-8, **28**
Massaroto Beraldo, Renato: EM-ThP-2, 67
Massett, Brandon: FUS-WeM-3, **41**
Mastro, Michael: EM-WeM-4, 40; TF+AP+EUV-FrM-7, 83
Matar, Omar: 2D-TuA-10, 28
Matherne, Hallie: TF-TuM-6, 23
Mathews, Michael: TF+AP+EUV-FrM-7, 83
Matsui, Miyako: PS+AP-MoM-7, **10**
Matsuki, Nobuo: PS2+EUV-TuA-14, 29
Matsukuma, Masaaki: PS2+EUV-TuA-14, 29
Matsumoto, Yukihiro: EUV-ThP-10, 65; SS-ThM-6, 50
Mattinen, Miika: AP+2D+EL+EM+PS+TF-WeA-1, **45**
Matvija, Peter: SS-TuA-13, 28
Matyushov, Ivan: BT2+AS+CA+TF-ThM-15, 55

Author Index

Maulana, Muhammad Irfansyah: MI1-MoA-4, 17
Maurer, Kiara: AC-FrM-10, 82
Mauze, Akhil: EL-ThP-9, 71
May, Brelon: QS-ThP-7, **70**
Mayatskiy, Rodion: AIML-WeM-16, 53
Mays, Ebony: PS1-ThM-4, 51
Maza, William: PS2-MoA-17, **14**
Mazumder, Baishakhi: AS1+CA+EL-ThM-3, 49
Mazzamuto, Fulvio: EM-WeM-13, 40
McCallum, Terry: NS-MoA-16, 18
McCann, Emilia: AS-WeM-17, **40**
McChensey, Jessica: LS-ThP-5, **68**
McCormack, K.: FUS-ThP-9, 68
McDonald, Anthony: SE-WeM-4, 35
McDonald, Nathan: BI-MoM-1, 7
McDonnell, Stephen: 2D-ThP-14, 64; AM+EM+TF-ThM-7, 54; AM1+EM+TF-FrM-6, 80
McDonough, Molly: AIML2-ThM-15, **53**
McDow, Jessica: MC-TuM-2, **24**
McElwee White, Lisa: AM1+EM+TF-FrM-5, 80
McGillivray, Shauna: BI-MoA-16, 19
McGuinness, Emily: EM-TuA-13, **32**
McIver, James: **NS-TuM-13**, **26**
McLean, Addison: UN-ThP-13, **73**
McLeod, Alexander S: EM-WeM-7, 40
Mecouch, Will: EM-WeA-2, 42
Medeiros, Jacilene M.: EM-ThP-2, 67
Mederos Vidal, Melissa: EM-ThP-2, 67
Mederos, M.: AM2+EM+TF-WeA-10, 46; TF-ThP-23, 73
Meier, Dennis: SS-WeM-15, **36**; SS-WeM-16, 36
Meier, Matthias: SS-TuA-13, 28
MEILLEUR, Pierre: PS1-WeM-8, 37
Meisenheimer, Peter: EM-TuA-10, **32**
Meitner, Steven: FUS-TuA-13, 34; VT-ThP-7, **74**
Mejia Rodriguez, Daniel: NS-TuM-5, 26
Mekkanamkulam Ananthanarayanan, Krishnan: 2D+QS-TuM-16, **20**
Melemed, Aaron: BT1+AS+CA+TF-ThM-8, 55
Melikyan, Harutyun: PS1-ThM-4, 51
Melinda, Rosa Virginia: SS-ThP-21, **71**
Melnik, Paul: AP+EL+MS+PS+TF-ThA-1, 60; PS2-ThM-17, 51; PS-ThP-5, 69; PS-ThP-6, 69
Melo, Jose Savio: BI1-TuM-4, 27
Mendez, Cristobal: SS-TuM-6, 21
Meng, Andrew: AM+EM+TF-ThM-13, **54**
Meng, Andrew C.: BT1+AS+CA+TF-ThM-7, 55
Meng, W.J.: AM+EM+TF-ThM-13, 54
Mercer, Ian: AM+EM+TF-ThM-3, **54**; AM+EM+TF-ThM-5, 54; AM+EM+TF-ThP-5, 65; NS-MoM-3, 9
Mergelsberg, Sebastian: SS-FrM-12, 76
Merkx, Marc J. M.: AP+EL+EM+PS+TF-TuM-15, 23
Merte, Lindsay R.: SS-ThM-13, **50**
Mette, Gerson: PS2+EUV-TuA-12, 29
Mettler, Jeremy: 2D-ThM-4, 50; AP+EL+MS+PS+TF-ThA-1, 60
Mettler, Jeremy J.: AP+2D+EL+EM+PS+TF-WeA-10, **45**
Meyer, Harry: AS-ThP-11, **66**
Meyer, Jarod: QS-TuM-6, 20
Meyer, Jörg: SS-ThM-4, **50**; SS-ThP-30, **72**; SS-TuM-17, 21; SS-TuM-3, 21
Meyer, Mackenzie: AP+EL+MS+PS+TF-ThA-4, 60; AP1+EL+PS+TF-FrM-7, 78; PS1-ThM-8, **51**; PS1-TuA-3, 29
Meyers, Sheldon: EUV-MoA-15, 15
Micah, Peter: AM+EM+TF-ThA-5, 62
Michaels, Julian: EUV-MoA-13, 15
Mickol, Rebecca: BI-MoA-11, 19; BI-MoM-4, 7; BI-TuA-4, 34
Middleman, Keith: VT-ThP-6, **57**
Miller, Brenna: PS1-TuA-4, 29
Miller, Elisa: LS-ThP-3, 68
Milosavljevic, Vladimir: PS1-TuA-2, 29
Min, Chenbo: 2D-WeA-3, 43
Min, Jinhong: 2D-ThP-1, 64
Min, Keunhong: NS-MoM-3, 9
Minamisawa, R.A.: AM2+EM+TF-WeA-10, 46; TF-ThP-23, 73
Mings, Alex: FUS-ThP-7, 68
Mings, Alexander: AS-WeM-15, **40**
Minjauw, Matthias: AP2+EL+PS+TF-TuA-13, 30
Minnich, Austin: AM2+EM+TF-WeA-12, 46; AP+EL+PS+TF-WeM-6, 38; QS1-MoA-9, 12
Minoret, Stéphane: PS-ThP-39, 70
Minton, Timothy: SS-TuM-1, **21**
Mion, Thomas: MI-MoM-8, **9**
Miranda Mañón, Andrés: AP1+EL+PS+TF-FrM-5, 78
Miranda Quijada, Hugo: BI-TuA-4, 34
Mirza, Asim: PS-ThA-5, 60; PS-ThP-29, 70
Mishra, Shashi: 2D-ThA-4, **58**
Misicko, Tobias: CA2-FrM-11, **75**; CA-ThP-10, **67**
Misra, Veena: AP+EL+PS+TF-ThP-7, 66; EM-WeM-16, 40
Mita, Seiji: EM-WeA-2, 42
Mitchell, Michael: AM2+EM+TF-FrM-11, **80**
Miura, Makoto: PS+AP-MoM-7, 10
Miyoshi, Nobuya: AP+EL+PS+TF-WeM-13, 38
Miyoshi, Yasufumi: PS1-MoA-3, 14
Mize, Carson: SS-ThM-15, 50; SS-ThP-1, 71; SS-ThP-25, **72**; SS-TuM-3, **21**
Mkhoyan, Andre: NS-MoA-4, 18
Mkhoyan, K. Andre: AP+EL+PS+TF-ThP-2, 66; EM-WeM-7, 40
Moayedi, Mohsen: EUV-MoA-7, 15
Mock, Alyssa: EL-ThP-9, 71
Modi, Krishna: 2D-ThM-13, **50**; BT2+AS+SS+TF-FrM-11, 81
Moffat, Thomas: AP1+EL+PS+TF-FrM-4, 78
Moffitt, Chris: AS-ThP-13, **66**; AS-TuA-10, 32; AS-TuA-11, 32
Mohajeri Khorasani, Hamidreza: TF1-TuA-4, 31; TF1-WeM-1, 39; TF-ThP-18, 73
Mohanta, S.: AM2+EM+TF-WeA-10, 46
Mohanty, Rituparna: TS-WeM-17, 41
Mohney, Suzanne: 2D-ThP-23, 64
Mohney, Suzanne E.: EM-WeA-1, 42
Mohr, Sebastian: PS-ThP-40, 70
Moinpour, Mansour: PS2-WeA-11, 44
Molder, Andrew: EM-ThP-12, **68**
Molkenboer, Freek: VT1-ThM-3, **57**
Momose, Takeshi: AIML2-FrM-4, 79; AP+EL+MS+PS+TF-ThM-4, **52**
Monadeev, Shani: AP+EL+EM+PS+TF-TuM-13, 23
Monakhov, Kirill: NS-TuM-5, 26
Mondal, Sudipta: 2D-TuA-4, **28**
Mont, Clemence: FUS-ThP-3, **68**
Montemore, Matthew: SS-WeM-13, **36**; SS-WeM-16, 36
Montes, Daniela: TF+AP+EUV-FrM-1, 83
Montgomery, Kendall: BT+AS+CA+TF-ThP-4, 65
Monti, Oliver: MI2-MoA-15, **17**; SS-ThM-1, **50**
Moon, Chang-Youn: 2D-WeA-11, 43
Moore, Brady: FUS-ThP-4, **68**
Morales, Carlos: SS-ThP-32, 72
Moreau, Bérangère: AS-WeA-6, 47
Morgan, David: AS1+CA+EL-ThM-4, 49; AS-TuA-13, **32**
Morin, Mathieu: NS-MoA-16, 18
Morin, Pierre: 2D-ThA-2, 58; AM+EM+TF-ThA-3, 62; AP+2D+EL+EM+PS+TF-WeA-4, 45
Morozov, Anatoli: AP+EL+PS+TF-ThP-6, 66
Morris, Krista: PS-ThP-26, 70
Moser, Simon: LS-MoA-9, 18
Moshirfatemi, Nastazia: EM-ThP-10, 68
Mota Frutuoso, Tadeu: AM2+EM+TF-FrM-10, 80
Motamed, Shadi: TF1-WeM-1, **39**; TF-ThP-21, **73**
Mou, Shin: EM-WeM-3, 40
Mouck, Donivan: EM-WeA-1, **42**
Mudide, Shiva: PK-ThP-1, 65
Mueller, Bastian: BI-ThP-1, 66
Mugarza, Aitor: SS-MoA-1, **13**
Muha, Gregory: EM-ThP-10, 68
Muhowski, Aaron: AIML2-ThM-15, 53
Mujica, Vladimiro: MI2-MoA-11, 17; MI2-MoA-15, 17
Mukaiyama, Koki: PS1-TuM-3, **22**
Mukhanov, Oleg: QS1-MoA-7, 12
Mukherjee, Deshabrato: EL-ThA-7, 63; EL-ThA-9, **63**
Mukherjee, Kunal: QS-TuM-6, 20
Mukhopadhyay, Partha: AP1+EL+PS+TF-FrM-3, **78**
Mulholland, Michael: CA-ThP-7, 67
Mulik, Rahul. S: TF-ThP-11, 72
Muller, David: AS1+CA+EL-ThM-3, 49; QS-ThP-3, 70; TF-WeA-11, 45
Müller, Immanuel: FUS-ThP-1, 68
Mullins, Rita: AIML-ThP-4, 65
Mulloy, Eva: EL-ThA-4, 63; EL-ThP-7, **71**
Mulvany, Oliver: VT2-ThM-14, 57
Mumtaz, Farhan: TS-WeA-3, 47
Mun, Bongjin Simon: LS-ThP-2, 68; LS-TuM-6, **25**
Mun, Jun Hee: PS-ThP-13, **70**
Mundy, Julia: TF-WeA-11, 45
Munoz, Carlos: AP1+EL+PS+TF-FrM-8, 78; EM-WeM-6, 40
Munoz, Maria: NS-ThP-15, 69
Muratore, Christopher: EM-WeM-3, 40
Murphy, John: AP+EL+MS+PS+TF-ThM-3, **52**; AP+EL+PS+TF-ThP-10, 66
Musa, Azeez O.: AP2+EL+PS+TF-FrM-11, **78**
Musgrove, Amanda: BT2+AS+CA+TF-ThM-15, 55
Mushrush, Eric: PS-ThP-32, 70
Musikhin, Stanislav: AP+2D+EL+EM+PS+TF-WeA-5, 45
Mutha, Heena: VT2-ThM-14, 57
Myers, Colin: QS1-MoA-6, **12**
Myers, Deborah: AS2-ThM-17, 49
Myers-Ward, Rachael: EM-WeM-13, **40**; EM-WeM-14, 40; EM-WeM-15, 40

— N —

N. Le, Dan: EUV-MoM-8, 7
Nag, Okhil: BI2-TuM-7, 27
Nair, Prabha Prasad: QS-TuM-4, **20**
Nakamura, Satoshi: PS-ThA-3, 60
Nakanishi, Waka: SS-ThP-34, 72
Nakano, Takeo: PS2+EUV-TuA-14, 29
Nakaya, Yugo: AP+EL+MS+PS+TF-ThM-4, 52
Nakouzi, Elias: AS-TuA-8, **32**
Nakoyama, Yoshiki: AP1+EL+MS+PS+TF-TuA-10, 30
Naletova, Irina: 2D-ThM-14, 50
Nam, Chang-Yong: EUV-MoM-8, 7; SS-MoA-16, 13; TF+AP+EUV-FrM-3, 83
Nam, Jiseong: PS-ThP-31, **70**
Nam, Raphael: EUV-MoA-7, 15
Namgung, Seon: 2D-ThP-24, **64**
Nanayakkara, Tharanga: QS2-MoA-17, 12

Author Index

Nandy, Aditya: PS2-WeA-11, 44
Nanneman, Alyssa: SS-FrM-3, 76
Narayanan, Meghna: PK+MS-FrM-13, **76**
Narayanan, Purnima: PK+MS-FrM-12, 76
Narayanan, Sai Krishna: 2D-WeM-3, 36; EM-WeA-4, 42
Nash, Brooklynn: SE-WeM-4, 35
Nasiri, Zahra: AIML1-ThM-3, **53**; AIML-WeM-16, 53
Naskar, Soumick: SS-FrM-3, 76
Nasu, Kinichi: AP+EL+MS+PS+TF-ThM-4, 52
Natterer, Fabian: QS-ThP-6, 70
Navarro Paredes, Violeta: AS-TuA-12, 32
Naveed, Muhammad Ashar: EM-WeM-17, 40
Nayak, Sumanta: VT2-ThM-16, 57
Nazaretski, Evgeny: LS-MoA-3, 18; LS-MoA-4, 18
N'Diaye, Alpha T: SS-MoA-5, 13
Neal, Adam: EM-WeM-3, 40
Neamtu, Rodica: AIML3-FrM-7, 79
Neekzad, Nariman: AM1+EM+TF-FrM-5, 80
Nehlsen, James: PS2-WeA-11, 44
Neill, Ronan: UN-ThP-3, 73
Nejati, Siamak: TF1-TuA-4, 31; TF1-WeM-1, 39; TF-ThP-18, 73; TF-ThP-21, 73
Nelin, Connie J.: AS-TuA-14, 32
Nelson, Gabela: BI-MoM-1, **7**
Nelson, Jonathan: AS-TuM-17, 25
Nelson, Jonathan C.: UN-ThP-12, **73**
Nelson, Nathaniel: EM-ThP-10, 68
Németh, Miklós: AS1+CA+EL-ThM-4, 49
Nemouchi, Fabrice: PS-ThP-39, 70
Nemsak, Slavomir: LS-MoA-14, 18; LS-TuM-5, 25; SS-FrM-10, **76**
Nepal, Neeraj: AM+EM+TF-ThM-15, 54; AM1+EM+TF-FrM-3, 80; AP1+EL+PS+TF-FrM-7, 78; PS1-FrM-4, 77; PS1-ThM-8, 51
Nesterov, Semen V.: NS-MoA-14, 18
Netzband, Christopher: PK+MS-FrM-15, 76; PS2-WeM-15, 37; PS2-WeM-16, **37**
Neumayer, Sabine: NS-ThP-9, 69
Neupane, Mohan Bikram: LS-MoM-6, 8; LS-MoM-7, 8
Newman, William: TS-ThM-3, **56**
Ngabonziza, Prosper: LS-MoM-3, 8
Nguyen, Huu: AM2+EM+TF-WeA-11, **46**
Nguyen, Phong: PS2-WeA-10, **44**; PS2-WeA-12, 44; PS-ThP-38, 70
Nguyen, Thanh Qui: BI3-TuM-15, 27
Nguyen, Thi-Thuy-Nga: AP+EL+PS+TF-WeM-13, 38; PS1-WeM-6, 37
Nguyen, Tra Anh Khoa: MC-ThP-2, 69
Nguyen, Vu: SS-ThP-4, 71
Ni, Ni: 2D-WeA-3, 43
Nichols, Forrest: BT-ThA-5, **62**
Niehuis, Ewald: AS-WeA-3, 47
Niemes, Simon: FUS-ThP-1, **68**; FUS-TuA-8, 34
Niemiec, Martin: TF-ThP-20, 73
Nieto Sánchez, Amanda Georgina: AIML-ThP-9, **66**
Nieto-Perez, Martin: FUS-WeM-13, **41**
Nishida, Wataru: EUV-ThP-10, 65
Nishinobo, Takumi: EUV-MoA-15, 15
Nishioka, Yutaka: PS1-WeA-1, 44
Nishizato, Hiroshi: AP+EL+MS+PS+TF-ThM-4, 52
Niu, Yuchen: SS-FrM-5, **76**; SS-ThP-24, **72**
Niu, Yuran: LS-MoA-13, 18
Nizenkov, Paul: PS-ThA-5, **60**; PS-ThP-29, **70**
Nnaji, Moses: FUS-WeA-1, 48
NOE, Pierre: PS1-WeM-8, 37
Noesges, Brenton: EM-WeM-3, 40
Noh, Do Young: LS-TuM-6, 25
Noh, Junseop: 2D-ThA-7, 58; SS-FrM-15, 76
Noh, Taeyun: EM-TuA-12, **32**
Noheda, Beatriz: AM+EM+TF-ThM-8, 54
Nojiri, Yasuhiro: PS1-WeM-3, 37; PS2-WeA-9, 44
Nolan, Michael: AIML1-ThM-8, **53**; AIML-ThP-4, **65**
Nolde, Jill: AP+EL+MS+PS+TF-ThM-3, 52
Nomoto, Kazuki: AS1+CA+EL-ThM-3, 49
Nordan, Zachary: FUS-ThP-4, 68
Nordlund, Dennis: LS-ThP-3, 68
Nori, Sudhakar: TF-ThP-26, 73; TF-ThP-27, 73
Norouzi, Sajjad: BI-MoM-2, 7
Norrgard, Eric: TS-ThM-3, 56
Norte, Richard: NS-MoM-4, 9
Novosad, Valentine: AP+EL+PS+TF-ThP-8, 66
Novotny, Zbynek: AS1+CA+EL-ThM-7, 49; NS-TuM-5, 26; SS-FrM-14, 76; SS-ThA-4, **59**; TF+AP+EUV-FrM-8, 83; TF-TuM-14, 23
Nozaki, Tomohiro: PS2-MoA-11, **14**
Nuckols, Lauren: AS-ThP-11, 66
Nunney, Tim: AS-WeM-2, 40; AS-WeM-3, **40**; BT-ThA-7, 62
Nyaupane, Kiran: TF-ThP-6, **72**
Nye de Castro, Rachel: AP+EL+EM+PS+TF-TuM-16, 23

— O —

O. Zorikova, Ekaterina: NS-MoA-14, 18
O'Connor, Chris: VT2-ThM-14, 57
O'Malley, Ronald J.: TS-WeA-3, 47
Oakley, Jennifer: EUV-MoA-15, **15**
Oberholtz, Eric: AIML2-FrM-6, **79**
Obrero, Caitlin: 2D+QS-TuM-13, 20
O'Brien, Casey: PS2-MoA-15, **14**
Oda, Shota: AIML2-FrM-4, **79**; AP+EL+MS+PS+TF-ThM-4, 52
O'Dea, Daniel: FUS-ThP-4, 68
Oehrlein, Gottlieb: AP+EL+MS+PS+TF-ThM-5, **52**; AP+EL+MS+PS+TF-ThM-8, 52
Oehrlein, Gottlieb S.: AS-WeM-4, 40; PS1-TuM-7, 22; PS2+EUV-TuA-12, 29
Oerter, Erik: AC-ThM-15, 56
Oh, Hojun: LS-TuM-6, 25
Oh, Ji Seop: LS-MoM-4, 8
Ohara, Shunpei: PS1-WeM-7, 37
Ohldag, Hendrik: AC-FrM-12, 82
Ohmura, Takumi: PS-ThA-3, **60**
Ohta, Taisuke: NS-MoA-9, **18**
Ohtake, Hiroto: PS1-FrM-3, 77; PS1-TuM-4, **22**
Okajima, Hiroshi: AP+EL+MS+PS+TF-ThM-4, 52
O'Keefe, Sean: TF1-WeM-8, 39
Okey, Carlito: EL-ThP-10, 71
Okia, Oluka: TF1-MoA-7, 16
Okuma, Kazumasa: AP+EL+PS+TF-WeM-3, 38
Okumura, Takamasa: PS1-WeM-7, 37
Okur, Burak: AP+EL+PS+TF-WeM-4, **38**; AP+EL+PS+TF-WeM-5, 38
Olandt, Sarah: 2D-ThP-22, 64
Olds, Daniel: QS2-MoA-13, 12
Olson, Ron: QS-ThP-4, 70
Olsson, Emilia: SS-ThP-30, 72
Olsson, Roy: NS-TuM-4, 26; NS-TuM-6, 26
Olszewski, Maciej: QS-ThP-3, 70; QS-ThP-4, 70
Omura, Mitsuhiro: PS1-FrM-8, 77; PS1-TuM-5, **22**
Oncel, Nuri: 2D-ThP-7, 64; AP1+EL+PS+TF-FrM-8, **78**; EM-WeM-6, 40
O'Neal-Freeman, Griffin: TS-ThP-3, **72**
Ono, Shinjiro: PS1-WeM-7, 37
Oono, Naoko: FUS-WeM-7, 41
Oosterveer, Thom: VT1-ThM-3, 57
Ootake, Fumito: PS1-WeA-1, 44
Opatosky, Brian: UN-ThP-20, 73
Oppong-Mensah, Helen: BT-ThA-7, 62
O'Quinn, Eric: EM-WeM-3, 40
Orabi, Mariam: AM2+EM+TF-FrM-12, **80**
Ordomsky, Vitaly: 2D-ThA-8, 58
Orion, Itzhak: AC-FrM-14, 82; AC-ThP-6, 64; AC-ThP-7, 64
Orlando, Thomas: AC-FrM-1, 82
Ormos, Martin: SS-TuA-13, 28
Orson, Keithen: LS-MoA-13, 18
Osborn, William: CA2-FrM-13, 75
Osmieri, Luigi: AS-WeM-17, 40
Osonio, Airah: PS1-FrM-8, **77**
Ostos, Yube: AIML2-FrM-6, 79
Oti, Joseph: AIML3-FrM-7, 79
O'Toole, Noel: AM+EM+TF-ThM-15, 54; EM-ThP-10, 68
Otte, Sander: NS-MoM-4, 9
Overton, Sydney: MC-TuM-7, **24**; UN-ThP-7, 73; UN-ThP-8, 73
Overzet, Lawrence: PS-ThP-8, 69
Oviedo, Juan Pablo: 2D-ThP-28, 64
Owens, Ellen: TF-TuM-2, 23; TF-TuM-3, **23**
Owens, Grace: SE-ThP-5, **65**
Oyedokun, Hafsah: BI-ThP-7, 67
Oyler, Nathan: EM-ThP-12, 68
Ozdogan, Mehmet: 2D-ThP-7, **64**; AP1+EL+PS+TF-FrM-8, 78; EM-WeM-6, **40**
Ozel, Taner: PS2-FrM-12, 77

— P —

Pabst, David: TS-WeM-15, **41**
Pachpande, Nishit: AIML-ThP-2, **35**
Pachulicz, River: BI-MoA-12, **19**
Paddubrouskaya, Hanna: AP+EL+PS+TF-WeM-16, 38
Padinjarekutt, Surya: EUV-MoA-13, 15
Pagan, Darren: AM+EM+TF-ThM-3, 54
Page, Laurence: VT1-ThM-5, 57
Paiste, Jacob H: AIML1-ThM-3, 53
Pajak, Will: AM2+EM+TF-WeA-12, 46
Palmer, Ben: QS1-MoA-6, 12
Palmstrom, Chris: QS-MoM-5, 10
Pan, Grace: TF-WeA-11, 45
Panama, Gustavo: AP+EL+PS+TF-ThP-9, 66
Pandit, Sanchaya: EM-WeA-3, 42; MC-MoA-9, **19**; TF-ThP-8, 72
Pant, Nick: AS1+CA+EL-ThM-3, 49
Papp, Christian: SS-WeM-7, **36**
Paquette, Michelle: EM-ThP-12, 68; TF-ThP-28, **73**
Parachikunnumal, Adhilsha: QS-MoM-3, 10
Paranamana, Nikhila C.: TF1-WeM-2, 39
Parastesh, Ali: EUV-ThP-7, 65
Parekh, Sapun: BI-MoM-2, **7**
Parihar, Pragya: TF-ThP-14, 72
Park, Anna: AS-WeA-11, 47
Park, Choon-Sang: PS-ThP-2, 69
Park, Hyewon: SS-ThP-5, 71
Park, In Yong: PS1-MoA-5, 14
Park, InYong: PS1-MoA-4, **14**
Park, Jaeeun: 2D-ThA-7, 58
Park, Jae-Gwan: EM-TuA-5, 32
Park, Jeong Woo: AP+EL+PS+TF-ThP-5, 66
Park, Jeong Y.: SS-WeA-11, **43**
Park, Jeong Young: SS-ThP-5, 71; SS-TuA-3, 28; SS-TuM-16, 21
Park, JiHyun: PS-ThP-21, **70**
Park, Jin-Hong: MS-ThP-1, 68
Park, Jiwon: SS-TuA-3, **28**
Park, Joohyung: LS-ThP-1, 68
Park, Joong-Mok: NS-TuM-17, 26
Park, Junbeom: PS-ThP-11, **69**
Park, Kyobin: BT1+AS+CA+TF-FrM-3, 81
Park, Kyoung-Duck: NS-TuM-15, **26**
Park, Min-A: AP+EL+PS+TF-ThP-9, 66
Park, Mingyo: MC-TuM-5, **24**
Park, Myeongho: PS-ThP-43, 70
Park, Sang Yoel: PS-ThP-31, 70
Park, Sejun: AC-FrM-7, 82

Author Index

Park, Seongho: PS+AP-MoM-3, 10
Park, SeongJin: QS-TuM-6, 20
Park, Woo Chang: PS-ThP-41, 70
Park, Yongsup: AS-ThP-9, **66**
Parke, Tyler: AP+EL+EM+PS+TF-TuM-17, **23**
Parker, Gabriel: AS1+CA+EL-ThM-6, 49; BT2+AS+CA+TF-ThM-15, **55**; CA2-FrM-11, 75; CA-ThP-10, 67; CA-ThP-3, 67; CA-ThP-7, **67**
Parker, Gabriel D.: AS-WeA-4, 47
Parkinson, Gareth: SS-TuA-13, 28; VT-ThP-4, 74
Parkinson, Gareth S: SS-TuA-10, 28
Parkinson, Gareth S.: SS-TuA-14, 28
Parrish, Chad: AS-ThP-11, 66
Parsons, Gregory: GWR-MoM-8, **8**
Parvez, Nawsher J.: MI-MoM-5, 9
Pashartis, Christopher: AP1+EL+MS+PS+TF-TuA-10, **30**
Patel, Dhruval: 2D-ThM-1, 50
Patel, Drhuval: PS1-TuA-4, 29
Patel, Param: QS-MoM-5, 10
Patel, Shyam: SS-TuM-8, **21**
Pathyapura, Anirudh K: EL-ThP-10, 71
Patidar, Aditya: SS-TuA-4, **28**
Patil, Shubhada: 2D-ThP-13, 64
Patil, Somraj: SS-FrM-8, 76
Patočka, Marek: NS-MoA-13, 18
Patouillard, Julien: AM2+EM+TF-FrM-10, 80
Patra, Arghya: BT+AS+CA+TF-ThP-2, 65
Pattanaik, Gyana: AM1+EM+TF-WeA-3, **46**
Patterson, Eric: EM-ThP-13, 68
Patti, Davide: 2D-ThM-14, 50
Paudyal, Nishan: SS-ThP-21, 71
Paul, Rajib: PS+AP-MoM-5, 10
Paul, Wolfgang: AS-WeA-3, 47
Pavelec, Jiři: SS-TuA-10, 28; SS-TuA-13, **28**; VT-ThP-4, **74**
Pavlidis, Spyridon: EM-WeA-2, 42
Payne, Camryn: TF1-WeM-4, **39**
Paz Santos, Francisco Eroni: 2D-ThP-16, 64
Pearce, Carolyn: AC-FrM-1, **82**; SS-FrM-12, 76
Peck, Joshua: PK+MS-FrM-14, **76**
Pécz, Béla: TF2-MoA-13, 16
Peete, Banks: AP+EL+MS+PS+TF-ThA-1, **60**
Peeters, Silke: AP+EL+MS+PS+TF-ThA-6, 60
Peiris, Frank: EL-ThP-3, 71
Pekarek, Thomas: 2D-WeA-12, 43
Pelissier, Bernard: AP+EL+PS+TF-WeM-1, 38
Pena, Tara: AP+2D+EL+EM+PS+TF-WeA-12, 45
Pena-Francesch, Abdon: BI-MoM-5, **7**
Pendharkar, Mihir: QS-MoM-7, **10**
Penedo, Marcos: NS-MoA-13, 18
Peng, Liangtao: 2D-WeA-4, 43
Peng, Tzu-Yu: NS-TuM-6, 26
Penland, Lindsey: SS-ThA-5, 59; SS-ThM-7, **50**
Pennachio, Daniel: EM-WeM-15, 40; EM-WeM-4, **40**; TF+AP+EUV-FrM-7, 83
Penny, Christopher: EUV-MoM-3, 7
Penuel, Braden: SS-ThM-15, 50
Pereira Vasconcelos, Nicolas Paulo: 2D-ThP-18, **64**
Perez Gomez, Eliseo: SS-TuM-15, 21; TF-ThP-14, **72**
Pérez Ramírez, Lucía: LS-MoA-7, **18**
Perez, Alejandro: EM-ThP-9, **67**
Pérez, Eliseo: SS-ThP-16, 71
Perez, Vivian: 2D-ThP-20, 64
Pérez,, Rubén: SS-MoA-14, 13
Perini, Carlo A.R.: TF-TuM-13, 23
Perkins, Kelvin: BT+AS+CA+TF-ThP-4, 65
Perry, Jonathan: VT+FUS-WeA-11, **48**
Perry, Josh: PS2-ThM-17, 51; PS-ThP-5, 69; PS-ThP-6, 69
Perry, Nicola: BT1+AS+CA+TF-FrM-5, 81
Persson, Alex: TF+AP+EUV-FrM-2, **83**
Petit, Sarah: CA-ThP-6, 67
Petitprez, Emmanuel: AP+EL+PS+TF-WeM-1, 38
Petluru, Priyanka: AIML2-ThM-15, 53
Petrik, Peter: EL-ThA-7, **63**; EL-ThA-9, 63
Petrov, Ivan: SE-WeM-6, **35**
Petrova, Svetla: BI-ThP-2, 66
Petruska, Joseph: TF1-MoA-6, 16; TF-WeA-6, **45**
Pettinger, Catherine: CA-ThP-5, 67
Peyres, Sean M.: PS1-TuA-5, 29
Pfeffer, Akira: TF-ThP-22, 73
Pfeiffer, Marcel: PS-ThA-5, 60; PS-ThP-29, 70
Pham, Brian: PS1-WeM-3, 37
Pham, Nghi: AM+EM+TF-ThP-1, **65**
Phan Huu, D. K. Andrea: MI2-MoA-8, 17; MI-ThP-1, 68
Philippidou, Konstantina: AP1+EL+MS+PS+TF-TuA-10, 30
Phillips, Adam B.: EL-ThP-10, 71
Phuyal, Nirmal: SS-WeM-4, 36
Pickering, Ricky: PS-ThP-30, 70
Pieczulewski, Naomi: AS1+CA+EL-ThM-3, 49
Pierrard, Robert: PS1-TuA-5, **29**
Pieters, Meike: BT1+AS+CA+TF-ThM-6, 55
Piña, Marissa: 2D-ThP-4, **64**
Pinder, Joshua: AS-WeM-1, 40
Ping, Lu: BT-ThA-7, **62**
Pinnepalli, Sai Siva Kumar: TF-ThP-28, 73
Pissolato Filho, José: PS-ThP-33, 70
Pittard, James: FUS-WeA-6, **48**
Pitz, Megan: BI-MoM-4, 7; BI-TuA-4, **34**
Plaisance, Cara: SS-FrM-3, 76
Plouff, David T.: MI-MoM-5, 9
Pocas, Stéphane: AP+EL+PS+TF-WeM-1, 38
Podraza, Nikolas: AS1+CA+EL-ThM-1, 49; EL-ThA-4, 63; EL-ThA-5, 63; EL-ThP-1, 71; EL-ThP-3, 71; EL-ThP-7, 71; EL-ThP-8, 71
Podraza, Nikolas J.: 2D-ThM-3, 50; EL-ThP-10, 71
Podraza, Nikolas Jacob: EL-ThP-4, 71
Poelman, Dirk: AIML1-ThM-7, 53
Pofali, Prasad: BI-ThP-5, 66
Poirier, Thomas: 2D-WeM-17, 36
Polek, Mathew: EUV-ThP-3, 65
Polillo, Natalie: UN-ThP-20, 73
Polito, Jordyn: PS1-MoA-1, 14
Polyachenko, Yury: 2D-ThP-2, **64**
Pookpanratana, Sujitra: PS2-WeM-17, 37
Pop, Eric: AP+2D+EL+EM+PS+TF-WeA-12, 45
Pope, Connor: SS-FrM-8, 76
Porter, Lisa: EM-WeM-5, 40
Posseme, Nicolas: AP+EL+PS+TF-WeM-1, 38
Posti, Raghvendra: 2D-ThP-13, 64; 2D-WeM-16, 36; 2D-WeM-17, **36**; 2D-WeM-6, 36; 2D-WeM-7, 36; 2D-WeM-8, 36
Poupaki, Eleni: AP1+EL+MS+PS+TF-TuA-4, **30**
Pour, Arya G.: TF-ThP-3, 72
Pourtois, Geoffrey: AP1+EL+MS+PS+TF-TuA-10, 30
Powell, Adam: NS-MoA-16, 18
Powell, Annie: UN-ThP-3, **73**
Prabhakaran, Venkateshkumar: NS-TuM-5, 26
Prabhune, Prajakta: 2D+QS-TuM-13, 20
Prada, Derek: AC-ThM-17, 56
Pradhan, Dhiren: AM+EM+TF-ThP-1, 65
Prager, James: AP+EL+MS+PS+TF-ThA-1, 60; PS2-ThM-17, 51; PS-ThP-5, **69**; PS-ThP-6, 69
Prakash, Ravi: AS-TuA-12, **32**
Pranda, Adam: AS-WeM-4, 40
Prasanna, Anika: UN-ThP-7, 73; UN-ThP-8, 73
Prasanna, Joslin: 2D-WeA-5, 43
Prasanna, Joslin S.: 2D-ThA-3, 58; 2D-ThP-28, 64
Pratt, Jenna: UN-ThP-7, 73; UN-ThP-8, 73
Prchal, Jiri: AC-FrM-13, 82
Premarathna, Sineth: TF+AP+EUV-FrM-8, **83**
Prestigiacomo, Joseph: EM-ThP-13, 68
Pretzie, Luke: AP+EL+PS+TF-ThP-8, 66
Pribiag, Vlad: QS-TuM-6, 20
Price, Henry: EM-ThP-12, 68
Price, Kent: AM+EM+TF-ThM-4, 54; NS-ThP-8, 69
Priester, Florian: FUS-ThP-1, 68; FUS-TuA-8, **34**
Prihatno, Fajar: SS-FrM-15, 76
Primera-Pedrozo, Oliva: 2D-ThM-2, 50
Primera-Pedrozo, Oliva M.: NS-TuM-5, 26
Primetzhofer, Daniel: SE-ThA-4, 58
Prudnick, William: AM+EM+TF-ThM-3, 54; AM+EM+TF-ThM-5, **54**; AM+EM+TF-ThM-6, 54
Prüßmann, Tim: AC-FrM-10, 82
Ptasińska, Sylwia: PS2-FrM-11, 77
Puckett, Catherine: EM-WeA-3, 42
Puntscher, Lena: SS-TuA-13, 28
Purdy, Thomas: MC-MoA-1, **19**; MC-MoA-6, 19; TS-ThP-1, 72
Purkayastha, Amrita: QS-MoM-5, 10
Puydinger dos Santos, M.V.: AM2+EM+TF-WeA-10, 46; TF-ThP-23, 73
Puydinger dos Santos, Marcos: PS-ThP-33, 70
Puydinger dos Santos, Marcos Vinicius: EM-ThP-2, 67
Pylypenko, Svitlana: AS2-ThM-17, 49; AS-WeM-17, 40

— Q —

Qafoku, Odeta: AS-WeA-10, 47; CA-ThP-5, 67
Qerimi, Dren: 2D-ThM-1, 50; EUV-ThP-8, 65; PS1-MoA-7, **14**; PS1-TuA-4, 29; PS-ThP-30, 70; PS-ThP-37, 70
Qian, Tiema: 2D-WeA-3, 43
Qiao, Mengxiong: SS-WeM-4, 36
Qu, Xiaohui: AIML2-ThM-13, 53; SS-ThM-17, 50
Qu, Zhaosen: EM-WeA-5, 42
Quelhas, Klaus: TS-WeM-4, 41; TS-WeM-5, 41
Quinlan, Frank: TS-WeM-5, 41
Quinlan, Franklyn: TS-WeM-4, 41
Quiroz, Mikhail: BI-MoA-16, 19
Qureshi, Nooreen: AM+EM+TF-ThM-17, **54**

— R —

Rabuffetti, Federico: TS-TuA-14, **33**
Rading, Derk: AS-WeA-3, 47
Radnik, Jörg: AS-TuA-1, **32**
Raeisi, Shayesteh: EL-ThA-7, 63; EL-ThA-9, 63
Raghu, Amrutha: EUV-ThP-9, **65**
Ragogna, Paul: AP+EL+EM+PS+TF-TuM-5, 23
Rahimi, Farhad: VT-ThP-8, 74
Rahinov, Igor: SS-TuM-5, **21**
Rahman, Hamidur: 2D-TuA-4, 28; AIML1-ThM-6, **53**
Rahman, Md. Saeedur: SS-TuM-13, 21
Rahman, Talat S: 2D-WeA-4, 43
Rai, Binod: AC-ThM-14, **56**
Raitses, Yevgeny: AP+2D+EL+EM+PS+TF-WeA-5, **45**; PS1-ThM-5, 51; PS2-ThM-16, 51
Raj Bhandari, Tap: AS-TuA-5, 32
Raj, Rishi: AP+EL+PS+TF-ThP-2, **66**; EM-WeM-7, 40; NS-MoA-4, 18
Rajabi, Nima: SS-ThP-18, **71**
Rajagopal, Gokul: AP+EL+EM+PS+TF-TuM-8, 23
Rajak, Soumyajit: NS-ThP-2, **69**
Rajala, Markku: AIML2-ThA-8, 61
Rajashekhar, Adarsh: AM+EM+TF-ThP-6, 65
Rajavalu, Shiva: EUV-MoA-16, 15
Rakonjac, Ana: TS-ThP-1, 72

Author Index

Raley, Angelique: EUV-MoA-15, 15; PS2-WeM-16, 37
Ramankutty, Aswini: 2D-WeM-2, 36
Ramanujam, Balaji: AP+EL+MS+PS+TF-ThM-15, 52; EL-ThA-4, 63; EL-ThP-10, **71**; EL-ThP-4, 71; EL-ThP-8, 71
Ramdam, Bibek: TS-ThM-8, **56**
Ramdin, Daram: EM-WeM-3, 40
Ramesh, Madhav: AS1+CA+EL-ThM-3, 49
Ramesh, R: EM-TuA-10, 32
Ramos, Daniel: TS-ThM-7, **56**
Ramos, Jazmin: UN-ThP-16, 73
Ramsey, Madison: 2D-ThP-19, 64; 2D-ThP-22, 64
Ramzan, Muhammad: TF+AP+EUV-FrM-3, **83**
Ran, Sheng: AC-ThP-5, 64
Rana, Khusboo: AC-FrM-7, 82
Rana, Serena: UN-ThP-15, **73**
Randall, Alexander: UN-ThP-11, **73**
Randolph, Steven: EM-TuM-13, 24
Rangari, Vijay: MI2-MoA-14, 17
Ranjan, Ravi: SS-WeM-5, **36**
Rao, Akshay: 2D-ThP-20, 64
Rao, Rahul: 2D-WeA-4, 43
Raquez, Jean-Marie: TF1-TuA-5, 31
Rassoul, Nouredine: PS2+EUV-TuA-13, 29
Rastogi, Shreeyansh: AP+EL+MS+PS+TF-ThA-1, 60
Rath, David: SS-TuA-13, 28
Ratkus, Cole: 2D-WeA-12, 43
Ratledge, Mark: FUS-WeM-17, 41
Ratnayake, Gothamie: 2D-ThP-16, **64**
Rau, Samantha: AP+EL+PS+TF-WeM-16, **38**
Rauf, Shahid: PS1-WeA-5, 44; PS-ThA-8, 60
Raut, Hemant Kumar: PS2+EUV-TuA-13, 29
Ravan, Shubham: SS-TuA-4, 28
Ravi Narayan, Lakshmi: CA2-FrM-13, 75
Ray, Asit: PS2-WeA-9, 44
Ray, Tyler: EUV-ThP-3, 65
Rayner Jr., Gilbert B.: EM-ThP-10, **68**
Rayner, G. Bruce: AS-TuA-3, 32
Rayner, Jr, Gilbert: AM+EM+TF-ThM-15, 54
Reddy, Pooja: QS-TuM-6, 20
Reddy, Pramod: EM-WeA-2, 42
Reece, Duncan: EUV-MoA-8, 15
Reed, Dentell: VT1-ThM-4, 57
Reed, Kaleb: TS-WeM-3, **41**
Reed, Kiana: QS2-MoA-14, 12
Reger, Lukas: VT-FrM-12, 83
Reghu, Abhilash S: VT2-ThM-16, **57**
Regmi, Sabin: QS-ThP-7, 70
Reid, Alexander: NS-TuM-7, **26**
Reid, Derek: AIML1-ThM-5, 53
Reid, Paul: TF2-MoA-10, 16
Reigota César, Rodrigo: EM-ThP-2, 67
Reihani, Amin: TS-WeM-16, 41; TS-WeM-17, **41**
Reinhardt, Simon: QS-ThP-3, 70
Reinhart, Wesley: AIML2-ThM-15, 53
Reinke, Petra: LS-MoA-13, **18**; SS-ThP-28, 72
Reis Barreto, Rafael: SS-MoM-3, 11
Remmel, Michael: PS2+EUV-TuA-12, 29
Renard, Aurelien: AS1+CA+EL-ThM-4, 49
Renault, Olivier: AM2+EM+TF-FrM-10, 80
Reniers, Francois: PS1-TuA-1, **29**
Renzas, J. Russell: AP+EL+PS+TF-WeM-4, 38; AP+EL+PS+TF-WeM-5, 38
Reschovsky, Benjamin: TS-ThM-4, 56; TS-ThP-2, 72
Restelli, Alessandro: TS-WeM-5, 41
Reutt-Robey, Janice: SS-FrM-5, 76; SS-ThP-24, 72
Revzin, Alexander: BI3-TuM-15, 27
RHALLABI, Ahmed: PS1-WeM-4, **37**
Rhinow, Daniel: PS2+EUV-TuA-12, 29
Ribault, Pierre: VT1-ThM-4, **57**
Ribeiro, Caue: PS-ThP-16, 70
Richard, Kailey: BI2-TuM-7, 27; BI-MoA-14, **19**; BI-ThP-10, **67**
Richards, Evelyn: VT2-ThM-14, 57
Richter, Curt: NS-ThP-15, 69
Ricker, Jacob: VT-FrM-13, 83; VT-ThP-2, **74**; VT-ThP-5, 74
Rickman, Richard: BI3-TuM-16, 27; NS-ThP-12, 69
Ricou, Pierre: PS1-TuM-7, 22
Riedinger, Ashlee: AP+2D+EL+EM+PS+TF-WeA-3, 45
Rifat, Nusrat Jahan: SS-TuM-13, 21
Rijnsent, Corné: VT1-ThM-3, 57
Rindert, Viktor: AS1+CA+EL-ThM-2, 49
Rios, Maricarmen: NS-MoA-13, 18
Rioux, Robert: SS-WeA-5, 43
Rivera Romero, Jorge: TF-ThP-8, **72**
Rivers, Gia: 2D-ThM-8, **50**
Robertson, Jaime: EUV-ThP-2, 65; EUV-ThP-6, **65**; PS-ThP-24, 70
Robinson, Jeremy: NS-MoA-9, 18
Robinson, Joshua: 2D+QS-TuM-16, 20
Robinson, Zachary: FUS-WeA-3, **48**; FUS-WeA-5, 48; FUS-WeM-1, 41; FUS-WeM-14, 41
Robinson, Zak: FUS-WeM-15, 41
Rocco, Emma: EM-WeM-4, 40; TF+AP+EUV-FrM-7, 83
Roche, Simon: FUS-TuA-14, **34**
Rodolakis, Fanny: LS-ThP-5, 68
Rodrigues de Oliveira, Otavio: SS-MoM-3, 11
Rodriguez, Alejandro Fernandez: PS2+EUV-TuA-13, 29
Rodriguez, Jose: SS-TuA-5, 28
Roehling, Tien: AC-ThM-15, 56
Rogalev, Andrei: AC-FrM-13, 82
Rogoz, Vladyslav: SE-WeM-6, 35
Rohe, Sam: NS-MoA-16, 18
Rohloff, Bruno: TS-WeM-15, 41
ROMAIN, Floryan: BT2+AS+SS+TF-FrM-15, **81**
Romanjek, Krunoslav: AM2+EM+TF-FrM-10, 80
Romero, Jhonatan: AM1+EM+TF-FrM-4, 80
Ronco, Antoine: AP+EL+PS+TF-WeM-1, 38
Ronnby, Karl: AIML1-ThM-8, 53
Ronning, Filip: AC-ThM-17, 56
Ronningen, TJ: LS-ThP-1, 68
Rosa, Priscila: AC-FrM-3, **82**
Rosas, Debra: AC-ThM-15, 56
Rosenhahn, Axel: BI-MoM-3, **7**
Rosenhek-Goldian, Irit: NS-MoA-13, 18; NS-MoA-14, **18**
Rosi, Nathaniel L.: MI2-MoA-7, 17
Roslawska, Anna: NS-MoM-7, **9**
Rosso, Kevin: AC-FrM-1, 82; SS-FrM-12, **76**
Rost, Christina: TF-ThP-3, 72; TF-WeA-9, **45**
Rotenberg, Eli: 2D-WeA-3, 43; 2D-WeA-4, 43; LS-MoA-9, 18; LS-MoM-4, 8; LS-MoM-5, 8; LS-MoM-6, 8; LS-MoM-7 8; LS-ThP-4, 68
Rotondaro, Antonio: AP+EL+PS+TF-WeM-16, 38
Rouleau, Christopher: AIML2-ThA-9, 61
Rousseau, Roger: AS1+CA+EL-ThM-6, 49
Roy, Joy: 2D-WeA-5, 43
Roy, Pooja: MC-TuM-1, 24
Roy, Saswata: QS-ThP-3, 70
Roy, Sharani: SS-ThM-15, 50; SS-ThP-1, 71; SS-ThP-25, 72
Rozas-Castro, Nicolás: AP+EL+EM+PS+TF-TuM-16, 23
Rozyyev, Vepa: BT1+AS+CA+TF-FrM-3, 81
Rrustemi, Zgjim: VT-ThA-3, 63
Rubab Sherazi, Syeda Faiza: 2D-WeA-4, 43
Rubloff, Gary: AM+EM+TF-ThA-7, 62; BT1+AS+CA+TF-FrM-4, 81; GWR-MoM-6, 8; TF-TuM-8, 23
Rubloff, Gary W.: GWR-MoM-7, 8
Ruby, Joshua: FUS-WeA-3, 48
Ruiz, Oscar: BI-MoM-4, 7
Ruiz, Ricardo: TF+AP+EUV-FrM-3, 83
Rummel, Brian: EM-WeM-1, **40**
Ruoff, Rodney: 2D-TuA-10, 28
Ruzic, David: 2D-ThM-1, 50; EUV-MoA-16, 15; EUV-ThP-2, 65; FUS-ThP-4, 68; FUS-WeM-13, 41; PS+AP-MoM-5, 10; PS1-TuA-4, 29; PS-ThP-20, 70; PS-ThP-24, 70; PS-ThP-30, 70; PS-ThP-32, 70; VT+FUS-WeA-9, **48**
Ryan, Philip: LS-MoA-1, **18**
Rybkin, Katherine: AP1+EL+PS+TF-FrM-5, 78
Ryoo, Gangbin: SS-ThP-8, 71

— S —

S. Alupothe Gedara, Buddhika: SS-ThA-4, 59
S. Rice, Peter: SS-ThA-4, 59
Saadat Niavol, Somayeh: AM+EM+TF-ThM-13, 54
Sadhanala, Aditya: AP+EL+PS+TF-ThP-4, 66
Sadiku, Makfire: VT-ThA-3, 63
Sadowski, Jerzy: SS-MoA-16, 13; SS-TuM-8, 21
Sadowski, Jerzy T.: SS-MoA-4, **13**; SS-ThM-3, 50
Sadowski, Jurek: LS-MoA-13, 18
Safikhani-Mahmoudi, Mohammad: NS-ThP-5, 69; SS-ThP-2, 71
Sagisaka, Keisuke: SS-ThP-34, 72
Saha, Arjan: SS-FrM-14, **76**
Saha, Rony Kumer: TS-WeA-3, 47
Sahoo, Anshuman: 2D-WeM-17, 36; 2D-WeM-6, 36; 2D-WeM-7, 36; 2D-WeM-8, **36**
Sahoo, Swetapadma: 2D-WeM-5, 36
Sajjadi, Baharak: AM1+EM+TF-FrM-8, 80
Sakamoto, Chihiro: PS1-FrM-8, 77; PS1-TuM-5, 22
Salagre, Elena: SS-MoA-6, **13**
Salden, Antoine: AP+EL+MS+PS+TF-ThA-7, 60
Saleh, Heba: AP1+EL+PS+TF-FrM-1, 78
Salermon, Miquel: LS-TuM-3, 25; SS-ThP-36, 72
Sales, Maria: AP1+EL+PS+TF-FrM-7, 78
Sami, Ismail: 2D-ThP-20, 64
Sanai, Seitaro: AIML2-FrM-4, 79
Sanchez, David: TF-WeA-5, 45
Sanchez, David Emanuel: 2D-ThP-16, 64
Sanchez, Iago: TS-ThM-7, 56
Sanchez, J.: SS-MoM-8, 11
Sanchez, Sheryl: AIML1-ThA-1, 61; AIML-ThP-8, **66**
Sand, Kira: SE-ThP-6, **65**
Sandoval, Luis: NS-MoA-16, 18
Sandoval, Tania: AP+EL+EM+PS+TF-TuM-16, **23**
Sandoval, Tania E.: AP+EL+EM+PS+TF-TuM-15, 23
Sangiovanni, Davide G.: SE-WeM-6, 35
Sangwan, Vinod: 2D-ThA-6, 58
Sanhueza, Benjamin: AP+EL+EM+PS+TF-TuM-15, **23**
Sankar, Raman: 2D-ThP-21, 64
Sankaran, Mohan: PS1-TuA-5, 29
Sankaran, R. Mohan: 2D-WeM-5, **36**; PS2-MoA-14, 14; PS-ThP-16, 70
Santimaria Sertori, Breno: SS-MoM-3, 11
Santini, Paolo: MI2-MoA-8, 17; MI-ThP-1, 68
Santiwipharat, Chaiwarut: EM-ThP-7, 67
Santos Santos, Josue: UN-ThP-17, 73; UN-ThP-23, 73
Santos, Josue A.: UN-ThP-19, **73**
Santos, T.E.A.: AM2+EM+TF-WeA-10, 46; TF-ThP-23, 73

Author Index

Sapkota, Keshab: AM2+EM+TF-WeA-11, 46
Sardashti, Kasra: QS1-MoA-6, 12; QS2-MoA-14, 12; QS-MoM-3, 10; QS-MoM-6, 10
Sarkar, Preetha: QS1-MoA-3, **12**
Sarker, Suchismita: TF-WeA-11, 45
Sarkib, Sartaz: MI2-MoA-14, 17
Sasaki, Toshiyuki: PS1-FrM-8, 77; PS1-TuM-5, 22
Sasmal, Souvik: 2D-WeA-3, 43; 2D-WeA-4, 43; MI-MoM-4, **9**
Satake, Makoto: PS+AP-MoM-6, 10
Satapathy, Yashas: EM-WeA-2, **42**
Sathish Kumar, Jitin: EM-WeM-7, 40
Sato, Hiromasa: SS-ThM-6, 50
Sato, Kiyohiko: PS+AP-MoM-7, 10
Satriano, Cristina: 2D-ThM-14, **50**; 2D-ThP-11, 64
Saucedo, Cesar: AS-ThP-7, 66
Saud, Pratik: 2D-WeA-4, 43; LS-MoM-6, **8**
Saud, Pratyush: 2D-WeM-17, 36; 2D-WeM-6, 36; 2D-WeM-7, **36**; 2D-WeM-8, 36
Sautet, Philippe: SS-ThA-1, **59**
Sauthier, Guillame: AS1+CA+EL-ThM-4, 49
Savage, Mackenzie: CA2-FrM-11, 75; CA-ThP-7, 67
Savio, Letizia: SS-TuA-14, 28
Sawkik, Mia: PS1-TuA-4, 29
Sawyer, Evan: VT-ThA-5, **63**
Schacherl, Bianca: AC-FrM-10, 82
Schäfer, Christian: SS-TuA-10, 28
Schäfer, Tim: SS-TuM-4, 21; SS-TuM-5, 21
Schardt, Lisa: BI-MoM-3, 7
Schauermann, Swetlana: SS-WeM-1, **36**
Schenter, Gregory: AC-FrM-1, 82
Scherer, Juergen: AS-TuM-16, **25**
Scherschligt, Julia: VT-FrM-15, 83
Schettini, Carlo: EM-WeM-5, **40**
Scheuer, Laura: MI-MoM-5, 9
Schleberger, Marika: AS-WeM-14, 40
Schleife, Andre: QS-TuM-3, 20
Schlom, Darrell: AS1+CA+EL-ThM-1, 49; AS1+CA+EL-ThM-3, 49; AS-WeA-11, 47
Schmid, Daniel: TS-WeM-15, 41
Schmid, Michael: SS-TuA-13, 28; VT-ThP-4, 74
Schmidt, Daniel: PS2-WeM-17, 37
Schmidt, Jacob: AS-WeM-16, 40
Schnadt, Joachim: AP2+EL+PS+TF-TuA-11, **30**
Schneck, Emanuel: BI-ThP-1, 66
Schneider, Jochen: SE-ThA-4, 58
Schneider, Jochen M.: SE-WeM-6, 35
Schnell, Morgan: UN-ThP-14, **73**
Schoelkopf, Robert J.: QS2-MoA-13, 12
Schofield, William: FUS-TuA-12, **34**
Scholl, Wallis: PS1-FrM-5, **77**
Schönhense, Gerd: SS-ThP-20, 71
Schöttke, Fabian: MI1-MoA-3, 17
Schreier, Marcel: SS-FrM-1, **76**
Schreiner, Rupert: MC-ThP-3, 69
Schröder, Stefan: TF1-WeM-5, **39**
Schroeder, Uwe: LS-MoA-7, 18
Schubert, Eva: AP+EL+MS+PS+TF-ThM-1, **52**; EL-ThA-8, 63
Schubert, Mathias: AP+EL+MS+PS+TF-ThM-1, 52; AS1+CA+EL-ThM-2, 49; AS1+CA+EL-ThM-3, 49; EL-ThA-8, 63; EL-ThP-9, 71
Schujman, Sandra: PS-ThP-3, **69**
Schwartz, Alec: FUS-WeM-17, 41
Schwarz, Udo D.: SS-MoA-14, 13; SS-MoA-15, 13
Schweigert, Daniel: AIML3-FrM-10, 79
Schweikert, Emile: BI3-TuM-16, 27
Schweikert, Emile A: NS-ThP-12, 69
Schweikert, Emile A.: BI3-TuM-15, 27; CA-ThP-2, 67
Scott, Joelle: AIML-WeM-15, 35; TF2-TuA-10, **31**
Seal, Daniel: VT-ThA-7, 63
Segal-Peretz, Tamar: TF2-TuA-12, 31; TF2-TuA-8, **31**
Segaud, Roselyne: PS-ThP-39, 70
Seino, Ryusuke: PS1-TuM-3, 22
Sekely, Ben: EM-WeM-15, **40**
Sekely, Benjamin: EM-WeM-13, 40; TF+AP+EUV-FrM-7, 83
Sekiguchi, Akihisa: PL-MoPL-1, **6**
Sekine, Makoto: PS1-FrM-8, 77; PS2-TuM-13, 22
Sen, Anusree: AIML-ThP-2, 35; AS-ThP-18, **66**
Sen, Dilara: EL-ThP-3, 71
Senanayake, Sanjaya: UN-ThP-17, 73; UN-ThP-23, 73
Senanayake, Sanjaya D.: UN-ThP-19, 73
Senevirathna, M. K. Indika: AS-WeA-11, **47**; UN-ThP-9, 73
Sengupta, Abhishek: TS-WeA-6, **47**
Senor, David: CA-ThP-3, 67
Seo, Gyeong Won: SS-ThP-27, 72
Seo, Minsik: LS-ThP-2, 68; LS-TuM-6, 25
Seo, Okkyun: LS-TuM-6, 25
Seo, Seonghyun: PS1-ThM-7, 51
Seong, Inho: PS1-ThM-7, 51
Seonghyun, Seo: PS1-MoA-6, 14
Serafini, John: EM-TuM-13, 24
Sergienko, Alexander: QS-TuM-7, **20**
Serna-Sanchez, Elizabeth: SS-TuA-11, **28**; SS-TuA-12, 28
Serov, Alexey: AS2-ThM-17, 49
Seth, Subhashree: TF+AP+EUV-FrM-1, 83
Seydoux, Claire: AS-WeA-6, 47
Seymour, Simon: QS-TuM-3, **20**
Shah, Jay: NS-MoA-4, **18**
Shah, Kartik: 2D-WeM-6, **36**; 2D-WeM-7, 36; 2D-WeM-8, 36
Shallenberger, Jeffrey: AS-TuA-3, **32**; EM-ThP-10, 68
Shamim, Shadmani: EM-WeA-3, **42**
Shan, Ambalanath: AP+EL+MS+PS+TF-ThM-15, 52; EL-ThA-4, 63; EL-ThA-5, 63; EL-ThP-1, 71; EL-ThP-10, 71; EL-ThP-3, 71; EL-ThP-4, 71; EL-ThP-7, 71; EL-ThP-8, 71
Shannon, Steven: AP+EL+MS+PS+TF-ThA-1, 60; PS1-ThM-1, **51**; PS1-ThM-4, 51; PS1-ThM-6, 51; PS2-MoA-16, 14; PS2-TuM-17, 22; PS-ThA-9, 60; PS-ThP-26, 70
Shapira, Dorin: TS-ThP-5, 72
Shard, Alexander: AS1+CA+EL-ThM-4, **49**
Sharma, Amritesh: QS-MoM-5, **10**
Sharma, P.: SS-MoM-8, 11
Sharma, Pankaj: FUS-TuA-12, 34
Sharma, Prakash: TF-ThP-3, 72
Sharp, Marcus: SS-FrM-14, 76
Sharpe, Matt: FUS-WeM-15, 41
Sharpe, Matthew: FUS-WeA-3, 48; FUS-WeA-5, **48**; FUS-WeM-1, 41
Shaskey, Cedric: SE-WeM-4, 35
Shavandi, Reyhane: AS-WeA-4, 47; BT-ThA-6, **62**
Sheibani Karkhaneh, Morteza: 2D-ThP-8, **64**
Shekarnoush, Mahsa: PS-ThP-8, 69
Shen, Kai: SS-ThP-18, 71
Sheppard, Jaylynn: PS1-WeM-3, 37; PS2-WeA-9, 44
Sher, Falak: BT+AS+CA+TF-ThP-2, **65**
Sherman, Michael: TS-ThP-5, 72
Sherpa, Sonam D.: PS2-ThM-16, 51
Shestopalov, Alexander A.: EM-ThP-7, 67
Shi, Xingyi: PS-ThA-8, **60**
Shields, Seth: LS-ThP-1, **68**
Shimada, Kenya: SS-MoA-5, 13
Shimada, Masashi: FUS-WeM-5, **41**
Shimakawa, Yuichi: AM+EM+TF-ThM-16, 54
Shimamura, Takenori: LS-MoA-4, 18
Shimizu, Hideharu: AP1+EL+MS+PS+TF-TuA-10, 30
Shimizu, Tomoko: SS-ThM-6, **50**; SS-ThP-34, 72
Shimogaki, Yukihiro: AP1+EL+MS+PS+TF-TuA-3, **30**
Shin, Ho-Sung: EM-WeM-7, 40
Shin, Hyung-Joon: 2D-ThA-7, 58; SS-FrM-15, 76
Shin, Hyunsuk: LS-ThP-2, 68; LS-TuM-6, 25
Shin, Seonghwan: AP+EL+PS+TF-ThP-9, 66
Shin, Yejin: AP+EL+MS+PS+TF-ThA-3, **60**; PS-ThP-35, **70**
Shinde, Nitin: 2D-TuA-11, 28
Shinjae, You: PS1-MoA-6, 14
Shinoda, Kazunori: AP+EL+PS+TF-WeM-13, **38**
Shipman, Kyle: FUS-WeA-6, 48
Shiratani, Masaharu: PS1-WeM-7, 37
Shirato, Nozomi: SS-ThM-16, **50**
Shiu, Wai Tung: AP+EL+EM+PS+TF-TuM-5, 23
Shmayda, W.T.: FUS-ThP-9, 68
Shmayda, Walter: FUS-WeM-3, 41
Shoghi Tekmedash, Alex: TS-WeM-16, **41**
Shohjoh, Tomoyasu: PS+AP-MoM-7, 10
Shotton, Justin: AC-ThP-5, 64
Shpani, Liana: SS-MoM-6, 11
Shreeyansh, Sourish: BI-MoA-16, 19
Shrestha, Bishal: EL-ThA-4, 63; EL-ThA-5, 63; EL-ThP-4, **71**
Shrestha, Shreya: EM-ThP-6, 67; MI-MoM-5, 9
Shuh, David: AC-FrM-12, **82**; AC-ThM-16, 56
Shukla, Ihit: AS1+CA+EL-ThM-3, 49
Shukla, Jay: SS-TuM-15, 21
Shukla, Nisha: NS-ThP-10, **69**
Shults, Andrey: QS-ThP-9, **71**
Shutthanandan, Vaithiyalingam: AS-WeA-10, 47; CA-ThP-5, **67**
Shviro, Meital: AS-WeM-17, 40
Sibener, Steven: SS-MoM-6, 11; SS-TuM-6, 21; SS-TuM-7, 21; TF-TuM-15, 23
Sibley, Eileen: FUS-TuA-13, 34
Siddique, Ameer: SS-ThP-37, **72**
Siepmann, J. Ilja: TF-ThP-14, 72
Sikah, Jonas: EL-ThP-5, 71
Sil, Aritra: CA2-FrM-13, 75
Silva Prior, Iago Aedon: SS-MoM-3, 11
Silva, A.R.: TF-ThP-23, 73
Silva, Audrey Roberto: EM-ThP-2, 67
Simon Reinhardt, Simon: QS-ThP-4, 70
Simpson, Robin: AS-WeM-2, 40; AS-WeM-3, 40
Sindt, Collin: LS-ThP-3, 68
Singh Saud, Pratik: LS-MoM-7, 8
Singh, Harmeet: PS1-FrM-5, 77; PS2-FrM-12, 77
Singh, Parminderdeep: FUS-WeM-17, 41
Singh, Simranjeet: 2D-ThP-13, 64; 2D-WeA-3, 43; 2D-WeA-4, 43; 2D-WeM-16, 36; 2D-WeM-17, 36; 2D-WeM-6, 36; 2D-WeM-7, 36; 2D-WeM-8, 36; LS-MoM-6, 8; LS-MoM-7, 8
Sinha, Subhayan: QS-MoM-5, 10
Sinitskii, Alexander: SS-MoM-1, **11**
Sinner, Tun: SS-TuA-10, 28
Sircar, Aenakshi: AM+EM+TF-ThA-5, **62**
Sitar, Zlatko: EM-WeA-2, 42
Sivakumar, Bhuvana Modachur: CA-ThP-5, 67
Skogg, Chloe M.: BI1-TuM-3, 27
Slautin, Boris: AIML1-ThA-1, **61**
Sm, Christopher M.: 2D-ThA-3, 58
Smekhova, Alevtina: 2D-ThP-13, 64

Author Index

Smet, Philippe F.: AIML1-ThM-7, 53
Smith, Jeffrey: EUV-MoA-15, 15
Smith, Jeffrey D.: TS-WeA-3, 47
Smith, Kahmeria: NS-ThP-16, 69
Smith, Paul: SE-ThP-5, 65; VT-ThA-4, 63
Smith, Randy: LS-MoA-4, 18
Smith, Raymond: EL-ThA-8, 63
Smith, Sarah: FUS-TuA-13, 34
Smith, Spencer: AP+2D+EL+EM+PS+TF-WeA-9, **45**
Smolenski, Shane: LS-MoM-5, **8**
Smolentsev, Sergei: FUS-WeM-13, 41
Smyth, Christopher: NS-MoA-9, 18
Smyth, Christopher M.: 2D-ThP-28, 64
Snead, Lance: FUS-TuA-10, 34
So, Christopher R.: BI1-TuM-3, **27**
Sobell, Zachary: AM+EM+TF-ThA-6, 62
Sobków, Jan: VT-FrM-10, 83
Soboyejo, Winston: AIML3-FrM-7, 79
Sodipo, Bashiru: BI-ThP-7, **67**
Soghomonian, Victoria: TF-ThP-3, 72
Sohn, Min Kyun: AP+EL+PS+TF-ThP-5, **66**
Sohn, Minkyun: AP+EL+PS+TF-ThP-9, 66
Sohn, So-Dam: 2D-WeA-11, 43
Sohngen, Liam: FUS-WeM-17, 41
Sombut, Panukorn: SS-TuA-13, 28
Somoroff, Aaron: QS1-MoA-7, 12
Son, Ilseok: PK+MS-FrM-15, 76; PS2-WeM-15, 37; PS2-WeM-16, 37
Son, Jeong-hoon: PS-ThP-9, **69**
Son, Jiyoung: CA-ThP-3, 67
Son, You-Hwan: SS-ThP-27, 72
Song, Duo: SS-FrM-12, 76
Song, Geun-Soo: AP+EL+PS+TF-ThP-1, 66
Song, Hyegyo: AIML-ThP-1, 65
Song, Hyemin: AIML2-FrM-5, 79
Song, Hyungseon: PS-ThP-40, 70
Song, Junyeob: PS2-WeM-17, 37
Song, Sang Yong: NS-MoM-5, 9
Song, Shin-Ae: AP+EL+PS+TF-ThP-1, 66
Song, Young Jae: NS-MoM-3, 9
Song, Yueming: GWR-MoM-6, 8
Song, Zhaoning: 2D-ThM-3, 50
Sonoda, Yasushi: PS+AP-MoM-6, 10
Soomary, Liam: AS-ThP-13, 66; AS-TuA-11, **32**
Sorensen, Preston: AS1+CA+EL-ThM-3, **49**; EL-ThP-9, **71**
Soso, Faruk: MI2-MoA-14, 17
Soukhanovskii, Vlad: FUS-WeM-13, 41
Soulie, Jean-Philippe: PS+AP-MoM-3, **10**
Soulié, Jean-Philippe: AM1+EM+TF-WeA-3, 46
SOZEN, Burak: TF+AP+EUV-FrM-6, 83
Spafford, Nancy: FUS-WeM-17, 41
Spangler, Ryan: SE-WeM-4, **35**
Spataru, Catalin: NS-MoA-9, 18
Speck, James: EL-ThP-9, 71
Spila, Timothy: BT+AS+CA+TF-ThP-2, 65
Spillmann, Christopher: EM-TuM-14, 24
Spoelstra, Hilko: VT1-ThM-5, 57
Sprouster, David: FUS-TuA-10, 34
Sprunger, Phillip: EUV-ThP-7, **65**
Srijanto, Bernadeta: EM-TuM-13, 24
Srikrishna, Vishantak: EM-TuA-10, 32
Srinivasan, Kartik: TS-ThP-1, 72
Sriraman, Saravanapriyan: PS2-ThM-15, 51
Srivastava, Shivani: AM1+EM+TF-WeA-1, **46**
Stacchiola, Dario: SS-FrM-4, 76; SS-ThM-17, 50; SS-ThM-3, 50; SS-ThP-31, **72**; SS-TuM-15, 21
Stach, Eric: NS-MoA-5, **18**; NS-TuM-4, 26
Stafford, Nathan: PS2-WeA-10, 44; PS2-WeA-12, 44; PS-ThP-38, 70
Staib, Philippe G.: SS-ThP-33, **72**
Stambaugh, Corey: AQS-SuA-5, **4**
Stanic, Vesna: QS2-MoA-13, 12
Staruch, Margo: AM+EM+TF-ThM-15, 54; MI-MoM-8, 9
Steele, Jacob: AS1+CA+EL-ThM-3, 49; AS-WeA-11, 47
Steffens, Kristen: PS2-WeM-17, **37**
Stein Weiler, Igor: SS-MoM-3, 11
Stelmacovich, Genevieve: AS2-ThM-17, 49
Stepanek, Isabella: FUS-WeM-2, **41**
Stephen, Gregory M.: 2D-WeM-15, 36
Stern, Laura: QS-TuM-6, 20
Stevenson, Thomas: AS-TuA-5, 32
Stewart, David: AM+EM+TF-ThA-7, 62; BT1+AS+CA+TF-FrM-4, 81; GWR-MoM-6, **8**
Stewart, John: MI-ThP-4, 68
Stiegler, Harvey: PS-ThP-8, 69
Stiff-Roberts, Adrienne: TF-TuM-1, 23
Stift, Máté: EL-ThA-7, 63; EL-ThA-9, 63
Stine, Justin: UN-ThP-6, 73; UN-ThP-7, 73; UN-ThP-8, 73
Stokes, Daniel: AM1+EM+TF-FrM-6, **80**
Stokes, Kate: AP+EL+MS+PS+TF-ThA-2, 60
Stokey, Megan: EL-ThP-9, 71
Stook, Alexander: AP+EL+EM+PS+TF-TuM-13, 23
Stosich, Corbyn: AS-ThP-10, **66**
Stowell, Michael: 2D-ThM-1, 50; PS1-TuA-4, 29
Strandwitz, Nicholas: EM-ThP-12, 68; TF2-WeM-15, **39**; TF-ThP-17, 72; UN-ThP-13, 73
Strange, Nicholas: LS-TuM-7, **25**
Strnad, Nicholas: AM+EM+TF-ThM-15, 54
Strnad, Nicholas A.: EM-ThP-10, 68
Strohmeier, Brian: AS-ThP-1, **66**
Stroscio, Joseph: NS-MoM-3, 9; QS-ThP-6, 70
Strzalka, Joseph: LS-MoA-5, **18**
Strzhemechny, Yuri: BI-MoA-16, 19
Sturm, Michael: FUS-TuA-8, 34
Stutzman, Marcy: VT-ThP-3, **74**
Su, Xiao: PS2-MoA-14, 14
Suarez Heredero, Lucia: EUV-ThP-2, 65
Subedi, Arjun: MI2-MoA-14, 17; SS-MoA-5, 13
Subedi, Biswas: EL-ThA-3, 63
Subramanian, Jithendaraa: AIML3-FrM-10, 79
Suda, Ryutaro: PS2-TuM-13, 22
Sugiarto, Hendrik Santoso: LS-ThP-4, 68
Sugimoto, Toshiki: SS-ThM-6, 50
Suh, Dongwoo: AP+EL+PS+TF-ThP-5, 66; AP+EL+PS+TF-ThP-9, 66
Suh, You Tack: AIML-ThP-1, **65**
Suh, Yu Gyeong: PS-ThP-14, **70**
Sullivan, Connor: UN-ThP-21, 73
Sullivan, Dan: BT-ThA-5, 62
Sultana, Marzia: AM+EM+TF-ThP-3, **65**
Sun, Favian: 2D-ThP-9, 64
Sun, Hailin: SE-WeM-5, 35
Sun, Peter: SS-MoA-16, **13**
Sun, Qi: LS-ThP-3, 68
Sunariwal, Neelam: BT-ThA-6, 62
Sundaram, Ganesh: AM+EM+TF-Th**P-6**, 65
Suresh Babu, Soorya: QS2-MoA-17, **12**
Surikuchi, Rohit: AM1+EM+TF-FrM-7, 80
Surman, David: AS-ThP-14, **66**
Sushko, Peter: QS2-MoA-11, **12**
Süzer, Sefik: CA1-FrM-7, **75**; SS-ThP-10, **71**
Suzuki, Hidenao: AM1+EM+TF-WeA-3, 46
Suzuki, Katsuya: FUS-WeM-7, 41
Suzuki, Taichi: PS1-WeM-5, 37
Suzuki, Yusuke: PS2-WeM-15, 37
Swarup, Jay: AP+EL+EM+PS+TF-TuM-8, 23; AP2+EL+PS+TF-FrM-10, 78
Sweet, Campbell: AP2+EL+PS+TF-FrM-11, 78
Sweet, Campbell A.: AIML1-ThM-4, **53**; AP+EL+EM+PS+TF-TuM-14, 23; BT1+AS+CA+TF-ThM-7, 55
Sweet, Jean-Jordan: QS2-MoA-13, 12
Swerts, Johan: 2D-ThA-2, 58; PS+AP-MoM-3, 10
Syed, Musaddeque: TS-TuA-11, 33
Syed, Zia: BI-TuA-3, 34
Sykes, Charles: SS-ThP-18, 71; SS-WeM-16, 36
Sykes, E. Charles H.: AS-ThP-20, **66**; SS-WeM-15, 36
Szabó, Zoltán: AM+EM+TF-ThA-1, 62
Szafarska, Maik: PS2+EUV-TuA-12, 29
Szántó, Géza: EL-ThA-7, 63; EL-ThA-9, 63
Szulczewski, Greg: TF-TuM-6, **23**
Szyszka, Piotr: VT-FrM-10, 83

— T —

T. Hanbicki, Aubrey: 2D-ThA-4, 58
T. N'Diaye, Alpha: MI2-MoA-14, 17
Tabassum, Nafisa: EM-ThP-1, **67**; PS-ThA-9, **60**
Tadjer, Marko: EM-WeM-14, 40
Tae, Heung-Sik: PS-ThP-2, 69
Taghinejad, Hossein: AQS-SuA-1, **4**
Tahir, Muhammad: MC-ThP-1, 69
Tajima, Kazuya: AP+EL+PS+TF-WeM-3, **38**
Takakura, Yohei: PS1-WeM-3, 37; PS2-WeA-9, 44
Takenaka, Kento: SS-ThM-6, 50
Taku, Hanna: PS1-WeA-1, 44
Talapatra, Sovendo: TF-ThP-17, **72**
Talekar, Akshay: AIML2-ThM-16, **53**
Talin, A. Alec: AM+EM+TF-ThA-7, 62
Talin, Alec: GWR-MoM-1, **8**
Tamura, Nobumichi: LS-MoM-4, 8
Tan, Samantha: AP+EL+PS+TF-WeM-17, 38
TAN, XINXUAN: PK+MS-FrM-12, **76**
Tanaka, Koichi: AP+EL+MS+PS+TF-ThA-5, **60**
Tang, Jian: 2D-WeA-3, 43
Tang, Jinke: SS-MoA-7, 13; SS-ThP-21, 71
Tani, Shuntaro: MI1-MoA-3, 17
Taniguchi, Takashi: 2D-ThP-20, 64; 2D-WeA-3, 43; 2D-WeM-17, 36; NS-MoM-3, 9
Tanino, Kenta: PS1-WeA-1, 44
Tapia-Aracayo, Leopoldo: BT1+AS+CA+TF-FrM-4, **81**
Tasnim, Tanzila: UN-ThP-20, 73
TAVERNIER, Aurélien: PS1-WeM-8, 37
Tawfik, Youssef: MC-MoA-6, 19
Tawny, Charbel: NS-ThP-3, **69**; NS-ThP-4, 69
Taylor, Kacey: TF2-TuA-10, 31
Taylor, Kyle: 2D-WeA-12, 43
Teichmann, Tim: FUS-ThP-1, 68
Telychko, Mykola: MI-MoM-7, 9
Teodoro, Orlando: VT-ThA-1, **63**
Tepavcevic, Sanja: BT-ThA-6, 62
Teplyakov, Andrew: 2D-ThP-4, 64; AP+EL+EM+PS+TF-TuM-17, 23; AP+EL+EM+PS+TF-TuM-2, **23**
Teplyakov, Andrew V.: EM-ThP-7, 67; SS-ThP-14, 71
Terlier, Tanguy: AS-WeA-12, **47**; CA-ThP-3, 67
Terrones, Mauricio: 2D-ThP-16, 64
Terry, Jeff: LS-MoA-6, **18**
Tesema, Tefera Entele: NS-ThP-16, **69**
Tesluk, Chris: VT2-ThM-14, 57
Tezcan, Zulal: PK+MS-FrM-12, 76
Than, Long: TF+AP+EUV-FrM-2, 83
Thangaraj, Kavin: CA-ThP-5, 67
Thibaut, Chêne: PS-ThP-39, 70
Thill, Alisson: LS-MoA-14, 18
Thiry, Damien: TF1-TuA-5, 31
Thissen, Andreas: AS-WeM-1, 40; AS-WeM-6, 40
Thomas, Peter: TS-WeA-1, 47
Thomas, Wyatt: TF-ThP-3, 72

Author Index

Thompson, Joshua: QS-MoM-3, 10
Thorpe, Ryan: AS1+CA+EL-ThM-4, 49
Thouless, M.D.: AP1+EL+PS+TF-FrM-5, 78
Thupakula, Umamahesh: NS-ThP-14, 69; NS-TuA-3, 33
Thurston, Jonathan: BT1+AS+CA+TF-ThM-8, **55**; LS-ThP-3, **68**
Thyagarajan, Ashok: BT2+AS+SS+TF-FrM-14, 81
Tippens, Jared: FUS-WeM-16, **41**
Tiwale, Nikhil: EUV-MoM-8, 7; TF+AP+EUV-FrM-3, 83
Tiwari, Aalok: 2D-ThP-13, **64**; 2D-WeA-3, 43; 2D-WeA-4, **43**; 2D-WeM-17, 36; LS-MoM-6, 8; LS-MoM-7, 8
Tiwary, Ayush: AIML2-FrM-6, 79
Tkach, Olena: SS-ThP-20, 71
Tobash, Paul: AC-ThM-17, 56
Tobin, J G: AC-ThP-1, **64**
Tochigi, Hidenobu: PS1-FrM-6, 77
Todorov, Teodor: PS1-WeM-3, 37
Todorović, Milica: AIML2-ThA-8, 61
Tohara, Takashi: PS-ThP-37, 70
Toher, Cormac: 2D-WeA-5, 43
Tokranova, Natalya: PS-ThP-3, 69
Tolaj, Zeqe: VT-ThA-3, 63
Tolchin, Maxwell: TF-ThP-15, 72
Tomura, Maju: PS1-TuM-3, 22
Toney, Michael: LS-ThP-3, 68
Tong, Daniel: QS-ThP-3, 70
Tong, Xiao: SS-MoM-7, **11**
Tong, Xiaolei: NS-TuM-4, 26
Ton-That, Toai: SE-WeM-4, 35
Topasna, Daniela: NS-ThP-7, **69**
Topcu Sendogdular, Selda: NS-ThP-6, 69
Torsi, Riccardo: NS-ThP-15, 69
Toyoda, Hirotaka: PS2-ThM-13, **51**
Tran, Brandon: 2D-ThP-13, 64
Tran, Gia Thinh: AC-ThM-14, 56
Tran, Ich: AS-ThP-8, 66
Tran, Jonathan: PS-ThP-7, **69**
Tran, Trung Nguyen: PS1-WeM-6, 37
Traouli, Yousra: AP+EL+MS+PS+TF-ThM-1, 52; EL-ThA-8, 63
Trappen, Robbyn: AS-TuA-5, 32; MI-ThP-4, 68
Trdinich, Zachary: 2D-ThA-6, **58**
Trelewicz, Jason: FUS-TuA-10, 34
Trenary, Michael: SS-ThM-5, 50; SS-ThP-17, 71; SS-WeM-17, 36
Trevisan, Aurelia: AP+EL+EM+PS+TF-TuM-7, **23**
Trice, Ryan: 2D-ThP-22, **64**
Trimukhe, Ajinkya: BI-ThP-5, **66**
Trimukhe, Ajinkya Mahadev: BI1-TuM-4, **27**
Tringides, Michael C.: NS-ThP-14, 69; NS-TuA-3, 33
Tripathy, Sai Saswat: AM+EM+TF-ThP-5, **65**
Trolier-McKinstry, Susan: TF2-MoA-10, 16
Trosan, Duncan: PS1-ThM-6, 51; PS2-MoA-16, 14; PS-ThA-9, 60
Truetzschler, Andreas: VT-FrM-12, 83
Trujillo-Mulero, Jara: SS-MoA-14, 13
Tsai, Kan-Ting: QS1-MoA-7, 12
Tsapatsis, Michael: TF-ThP-14, 72
Tseng, Hsiang-Han: BT-ThA-7, 62
Tsuchioka, Shuto: PS1-WeM-6, 37
Tsuda, Hirotaka: PS1-TuM-5, 22
Tsuji, Yukihide: PS-ThA-3, 60
Tsutsumi, Takayoshi: EUV-ThP-10, **65**; PS1-TuM-8, 22; PS1-WeA-3, 44; PS1-WeM-6, 37
Tuchman, Andrew: PK+MS-FrM-15, **76**; PS2-WeM-15, 37; PS2-WeM-16, 37
Tuck, Sara: BI-MoA-11, **19**; BI-MoA-14, 19
Tucker, Izabella: UN-ThP-7, 73; UN-ThP-8, 73
Tumusange, Marie, Solange: EL-ThA-4, 63
Tung, Vincent: 2D-TuA-8, **28**
Turkiewicz, Ari: TF-WeA-11, 45
Turro, Claudia: LS-ThP-1, 68
Twumasi, Elvis: AIML3-FrM-7, 79
Tysoe, Wilfred: SS-WeA-4, **43**
Tyson, Trevor A.: SS-MoA-4, 13
Tzavara Roussi, Athina: TF-ThP-2, 72

— U —

Uddi, Mruthunjaya: AP+EL+PS+TF-ThP-6, **66**
Uddin, Md Aslam: TF1-MoA-7, 16
Udovenko, Stanislav: AM+EM+TF-ThM-3, 54
Ulaganathan, Rajesh Kumar: 2D-ThP-21, 64
Um, JungHwan: PS1-TuM-1, 22
Unocic, Raymond: 2D+QS-TuM-13, **20**
Unterberg, Ezekial: FUS-WeM-16, 41
Urbański, Paweł: VT-FrM-10, 83
Ushakov, Andrey: VT1-ThM-3, 57
Ussenov, Yerbolat: AP+2D+EL+EM+PS+TF-WeA-5, 45; PS1-ThM-5, **51**
Uz, Metin: UN-ThP-24, 73

— V —

V. Davydov, Albert: 2D-ThA-4, 58
Vachon, Martin: TS-WeM-13, 41
Vadu, Sushila: SE-WeA-10, 42
Vaidya, Amogh: BI-ThP-5, 66
Valencia-Acuna, Pavel: 2D-ThM-2, 50
Valizadeh, Reza: VT-ThA-7, 63
Valleé, Christophe: PS-ThP-3, 69
Vallejo, Kevin: QS-ThP-7, 70
Valley, David: AS2-ThM-15, **49**
van Baarle, Dirk: VT1-ThM-3, 57
van de Kerkhof, Mark: AS-TuA-12, 32
van den Bosch, Floris: SS-TuM-17, **21**
Van Drie, Alan: VT1-ThM-7, **57**
van Duin, Adri: 2D+QS-TuM-16, 20
Van Duinen, Michael: SS-TuM-6, **21**
van Eijk, Lonneke: AS2-ThM-17, **49**
van Helvoirt, Cristian: BT1+AS+CA+TF-ThM-6, 55
van Ommen, Ruud: TF-ThP-2, 72
van Spronsen, Matthijs A.: LS-ThP-8, 68; LS-TuM-4, 25
van Veldhoven, Jacqueline: AS-TuA-12, 32
Vandendaele, William: AM2+EM+TF-FrM-10, 80
Vandervorst, Wilfried: AS-WeM-7, 40
Vanfleet, Richard: UN-ThP-11, 73
Vanosky, Jordan: VT1-ThM-1, **57**
Vargas, Francisco: BT1+AS+CA+TF-FrM-3, 81
Vargas, Ignacio: SS-ThP-16, **71**; SS-TuM-15, 21
Varshney, Shivasheesh: EM-WeM-7, 40; NS-MoA-4, 18
Vasilev, Mikhail: PS-ThP-16, 70; PS-ThP-18, **70**
Vasudevan, Rama: AIML2-ThA-9, 61
Vavrecka, Adam: SS-TuA-10, 28
Veillerot, Marc: CA-ThP-6, 67
Veith, Gabriel: BT2+AS+CA+TF-ThM-15, 55
Veitzer, Seth: PS-ThA-6, 60
Velapatino, Marisol: EUV-ThP-2, 65
Velasco Forest, Marcelo: QS2-MoA-14, **12**
Velez, Victoria: AIML1-ThM-5, 53
Velthuis, Han: VT1-ThM-3, 57
Veltmeyer, Victor: PS-ThP-33, **70**
Vemuri, Vamseedhara: EM-ThP-12, 68
Venkatesh, Mathangi: TF2-TuA-10, 31
Ventura-Macias, Emiliano: SS-MoA-14, 13
Verhelle, Tippi: AP2+EL+PS+TF-TuA-13, 30
Verkhoturov, Stanislav: BI3-TuM-15, 27; BI3-TuM-16, 27; CA-ThP-2, 67
Verkhoturov, Stanislav V: NS-ThP-12, 69
Verma, Abhishek: PS1-WeA-5, 44
Verma, Mehak: AS-WeA-4, 47
Vernachio2, Connor: NS-MoA-17, 18
Vernik, Igor: QS1-MoA-7, **12**
Vieira, Gustavo: AP+EL+MS+PS+TF-ThM-16, 52
Vienes, Jevalyne: AP+EL+EM+PS+TF-TuM-1, 23
Vilé, Gianvito: SS-TuA-14, 28
Vishal, Kumar: 2D+QS-TuM-15, **20**; 2D-ThP-6, **64**
Visser, Cas: AP1+EL+MS+PS+TF-TuA-4, 30
Viswan, Gauthami: MI2-MoA-14, 17
Vitova, Tonya: AC-FrM-10, 82
Vlastos, Nikiphoros: SS-MoA-7, 13
Voevodin, Andrey: SE-ThA-1, **58**; SE-WeM-2, 35
Vogel, Eric: FUS-WeA-1, **48**; FUS-WeM-2, 41
Vogt, Victor: AP1+EL+PS+TF-FrM-5, **78**
von Jeinsen, Nick: 2D-ThP-20, 64
Vondee, Ebenezer: TF-ThP-6, 72
Vong, Man Hou: GWR-MoM-8, 8
Voorhees, Peter: NS-MoA-5, 18
Vovk, Evgeny I.: SS-MoA-9, 13
Vu, Karl: EUV-ThP-2, 65
Vuruputuri, Vennela: AP+EL+MS+PS+TF-ThM-8, **52**

— W —

W. G. Smith, Nicholas: 2D-ThA-4, 58
Wacker, Jennifer: AC-FrM-12, 82
Wagner, Joshua: AS1+CA+EL-ThM-7, **49**
Wagner, Margareta: SS-TuA-10, 28; SS-TuA-14, 28
Waidbacher, Viktoria: SS-TuA-14, 28
Wajda, Cory: AM1+EM+TF-WeA-3, 46
Waks, Edo: QS-ThP-8, 70; QS-ThP-9, 71
Waldeck, David H.: MI2-MoA-7, 17
Walensky, Justin R.: AP2+EL+PS+TF-FrM-11, 78
Walker, Amy: AP+EL+EM+PS+TF-TuM-1, **23**
Walker, Michael: AS2-ThM-17, 49
Walker, Olivia: TF-ThP-28, 73
Walko, Donald: TF-WeA-11, 45
Wallace, Robert M.: 2D-ThA-3, 58; 2D-ThP-28, 64
Walls, Michael: BT2+AS+SS+TF-FrM-10, **81**
Walsh, Ryan: AP+EL+PS+TF-WeM-4, 38; AP+EL+PS+TF-WeM-5, **38**
Walter, Andrew L.: QS2-MoA-13, 12
Walter, Eric: AC-FrM-7, 82
Walter, Jason: QS1-MoA-7, 12
Walter, Olaf: AC-FrM-10, 82
Walton, Scott: AM1+EM+TF-FrM-3, 80; AP+EL+MS+PS+TF-ThA-4, 60; AP+EL+MS+PS+TF-ThM-3, 52; AP+EL+PS+TF-ThP-10, 66; AP1+EL+PS+TF-FrM-7, **78**; PS1-FrM-4, 77; PS1-ThM-8, 51; PS1-TuA-3, 29; TF+AP+EUV-FrM-7, 83
Waluyo, Iradwikanari: LS-TuM-6, 25
Wang, Cheng: EUV-MoA-11, **15**; LS-MoA-14, 18; TF+AP+EUV-FrM-3, 83
Wang, Chen-Jia: MC-ThP-2, 69
Wang, Chih-Feng: 2D-ThM-2, 50
Wang, Chunlei: SS-TuA-13, 28
Wang, Cuiyang: AS-WeA-5, 47
Wang, George: AM2+EM+TF-WeA-11, 46
Wang, H.: SS-MoM-8, 11
Wang, Haozhe: 2D-TuA-14, 32
Wang, Haozhe, **26**
Wang, Haozhe, **61**
Wang, Haozhi: QS1-MoA-6, 12
Wang, Jiaman: TF2-TuA-11, 31
Wang, Jian: 2D-ThP-28, 64
Wang, Jigang: NS-TuM-17, 26
Wang, Jing: FUS-WeM-7, 41
Wang, Ke: 2D-ThP-20, 64
Wang, Meihui: 2D-TuA-10, 28
Wang, Mingmei: PS1-FrM-5, 77; PS2-FrM-12, 77

Author Index

Wang, Peipei: EUV-ThP-3, 65
Wang, Qiankun: MI2-MoA-11, 17
Wang, Ruofei: SS-WeA-6, 43
Wang, Sanwu: SS-FrM-3, 76
Wang, Shurui: TS-WeM-13, 41
Wang, Tianyi: EUV-ThP-9, 65
Wang, Xi: EM-ThP-6, 67
Wang, Xiaoping: AS2-ThM-17, 49
Wang, Xing: FUS-WeM-13, 41
Wang, Xinhao: MI-MoM-5, 9
Wang, Xinzhe: SS-MoA-14, 13; SS-MoA-15, 13
Wang, Xue: PS2-FrM-12, 77
Wang, Xue-Bin: NS-TuM-5, 26
Wang, Yanan (Laura): EM-WeA-3, 42; EM-WeM-17, 40; MC-MoA-9, 19; TF-ThP-8, 72
Wang, Yining: SS-FrM-12, 76
Wang, Yunong: MC-TuM-1, 24
Wang, Zheming: AC-FrM-1, 82; SS-FrM-12, 76
Ward, David: 2D-ThP-20, 64
Ward, Zac: TF-WeA-1, **45**
Warecki, Zoey: EM-ThP-13, 68; MI-MoM-8, 9
Wasielewski, Michael R.: MI2-MoA-8, 17
Wasif Mustakim, Ahmed: QS-ThP-7, 70
Watanabe, Junta: SS-ThP-34, **72**
Watanabe, Kenji: 2D-ThP-20, 64; 2D-WeA-3, 43; 2D-WeM-17, 36; NS-MoM-3, 9
Watson, Andrea: AM+EM+TF-ThM-7, 54
Weaver, Jason: SS-FrM-8, **76**
Weaver, Jason F.: SS-TuA-4, 28
Weaver, Kendra: UN-ThP-17, 73
Weber, John: TS-WeM-13, 41
Weidner, Tobias: BI2-TuM-13, **27**
Weiland, Conan: LS-MoA-7, 18
Weiland, Ryan: 2D-TuA-4, 28; AP+2D+EL+EM+PS+TF-WeA-4, **45**
Weimer, Matthew: AP1+EL+PS+TF-FrM-4, 78
Weis, Adam: QS1-MoA-7, 12
Weiss, Aryeh: AC-FrM-14, 82; AC-ThP-6, 64; AC-ThP-7, 64
Weiss, Paul S.: NS-MoA-1, **18**
Welch, Brian: TF2-TuA-12, **31**
Welp, Eric: 2D-ThP-23, 64; 2D-TuA-3, **28**
Wen, Ming: LS-MoM-5, 8
Wen, Qi: BI-ThP-2, 66
Werbrouck, Andreas: AIML1-ThM-7, **53**
Werner, Jay: AIML-WeM-15, 35; TF2-TuA-10, 31; TF2-TuA-14, **31**; TF-ThP-22, **73**
Westover, Andrew: BT1+AS+CA+TF-FrM-1, **81**
Wheeler, Virginia: AM+EM+TF-ThM-15, **54**; AM1+EM+TF-FrM-3, 80; AP+EL+MS+PS+TF-ThA-4, 60; AP1+EL+PS+TF-FrM-7, 78; PS1-FrM-4, 77; PS1-ThM-8, 51; TF+AP+EUV-FrM-7, 83
White, Corey: TF+AP+EUV-FrM-1, **83**
White, Daryl: AP+EL+MS+PS+TF-ThA-2, 60
White, Matthew: EL-ThP-5, 71
Whitham, Grant: TS-WeA-3, 47
Whitted, James T.: UN-ThP-19, 73
Wi, Dae Han: SS-ThP-5, 71
Wiedenmann, Jonas: PK+MS-FrM-5, **76**
Wiens, Kristin: UN-ThP-7, **73**; UN-ThP-8, 73
Wiesner, Ulrich: AS-TuA-8, 32
Wijesinghe, Pubudu: MI2-MoA-10, 17
Wilber, Gabriel: FUS-ThP-9, **68**
Wild, Christoph: FUS-WeM-17, 41
Wilhelm, Fabrice: AC-FrM-13, 82
Will, James: PK+MS-FrM-7, **76**
Will, Sebastian: QS-TuM-5, 20
Williams, Isabella: EM-WeM-5, 40
Williams, Michael: AS1+CA+EL-ThM-3, 49
Williams, Michael D: AS-WeA-11, 47
Williamson, Matt: FUS-TuA-13, **34**
Williamson, Sonnaleise: UN-ThP-17, **73**; UN-ThP-23, 73
Williamson, Sonnaleise E.: UN-ThP-19, 73
Willson, Sarah: TF-TuM-15, 23
Wilson, Holly: TF-TuM-3, 23
Windover, Donald: AS-TuM-13, 25
Windsor, Haisley: AC-FrM-12, 82; AC-ThM-16, **56**
Wise, Rich: PS2+EUV-TuA-10, 29
Wittman, Mark: FUS-WeA-3, 48; FUS-WeM-1, 41
Wnuk, Alexandra: TF1-TuA-2, **31**
Wodtke, Alec: SS-TuM-5, 21
Woller, Kevin: FUS-WeM-13, 41
Wollmershauser, James: EM-ThP-13, 68
Wong, Sheng-Shong: 2D-ThA-5, 58
Wong, Tak-Sing: BP+BI-SuA-3, **4**
Wonnyoung, Jeong: PS1-MoA-6, 14
Woo, Hyun-Jong: PS-ThP-35, 70
Woo, Hyun-Joug: AP+EL+MS+PS+TF-ThA-3, 60
Woodward, Jeffery: EM-WeM-15, 40
Woodward, Jeffrey: AP+EL+MS+PS+TF-ThA-4, 60; FUS-WeA-3, 48; PS1-ThM-8, 51; TF+AP+EUV-FrM-7, **83**
Woodwyk, Seth: MI-ThP-4, 68
Woychik, Charles: PK+MS-FrM-3, **76**
Wright, Mason: MC-ThP-4, **69**
Wu, Chen: PS+AP-MoM-3, 10
Wu, Chung-Lin: 2D-ThA-5, 58
Wu, Li: PS1-TuM-5, 22
Wu, Ping-Hsien: AM2+EM+TF-WeA-9, **46**
Wu, Qin: SS-ThP-16, 71; SS-TuM-15, 21; TF+AP+EUV-FrM-3, 83
Wu, Tsung-Chi: EM-TuA-10, 32
Wu, Tsung-Han: TS-WeA-4, 47
Wu, Weipeng: MI-MoM-5, 9
Wu, Xinpei: TF+AP+EUV-FrM-3, 83
Wu, Zhiheng: FUS-WeA-6, 48
Wubs, Jente: AP+EL+MS+PS+TF-ThA-7, 60
Wucher, Andreas: AS-WeM-14, 40
Wunder, Maxim: 2D-ThP-19, **64**; 2D-ThP-23, 64
Wunderwald, Florian: LS-MoA-7, 18
Wyand, Janine: AP+2D+EL+EM+PS+TF-WeA-12, **45**

— X —

Xiao, John Q.: MI-MoM-5, **9**
Xiao, Kai: 2D+QS-TuM-13, 20
Xiao, Yang: CA2-FrM-11, 75; CA-ThP-10, 67
Xiao, Zhigang: BT+AS+CA+TF-ThP-4, 65; EM-TuA-4, 32
Xie, Saien: AP+2D+EL+EM+PS+TF-WeA-5, 45
Xie, Tianjun: TF-ThP-6, 72
Xin, Susheng: VT2-ThM-16, 57
Xing, Huili: AS1+CA+EL-ThM-3, 49
Xu, Dan-Xia: TS-WeM-13, 41
Xu, Fang: SS-MoM-8, **11**
Xu, Haobo: BI1-TuM-5, **27**
Xu, Huijuan: LS-MoA-4, 18
Xu, Minxing: NS-MoM-4, 9
Xu, Wangwang: AM+EM+TF-ThM-13, 54
Xu, Wei: LS-MoA-3, **18**; LS-MoA-4, 18
Xu, Weihe: LS-MoA-3, 18; LS-MoA-4, **18**
Xu, Ye: BT2+AS+SS+TF-FrM-12, 81; SS-TuM-13, **21**

— Y —

YACOU, Christelle: BT2+AS+SS+TF-FrM-15, 81
Yadav, Anil: AP+EL+PS+TF-ThP-4, **66**
Yadav, Vineeta: LS-MoA-7, 18
Yagisawa, Takashi: PS1-MoA-3, 14
Yakobson, Boris: 2D-ThP-9, 64; EM-TuA-1, 32
Yamaguchi, Noboru: PS1-WeM-5, 37
Yamamoto, Rintaro: EUV-MoA-15, 15
Yan, Hanfei: LS-MoA-3, 18; LS-MoA-4, 18
Yan, Jiaqiang: NS-MoM-5, 9
Yan, Yifei: QS1-MoA-9, **12**
Yanagawa, Takumi: PS2-ThM-16, 51
Yanez-Parreno, Wilson: QS-TuM-6, 20
Yang, Billy: TF-WeA-5, **45**
Yang, Dengyu: NS-MoM-3, **9**; QS-ThP-6, 70
Yang, Hyuenwoo: AP2+EL+PS+TF-FrM-15, **78**
Yang, Jiangfeng: MI2-MoA-10, 17
Yang, Jinfeng: 2D-ThM-5, 50
Yang, Judith: **AIML2-ThM-13**, **53**; EM-WeM-5, 40; QS2-MoA-13, 12; SS-WeA-5, 43
YANG, KAI-AN: MC-ThP-2, 69
Yang, Rong: BI1-TuM-5, 27
Yang, Sharon: AM+EM+TF-ThM-6, **54**
Yang, Sieun: SS-ThP-12, **71**
Yang, Wooin: NS-MoA-17, **18**
Yang, Xindi: AM+EM+TF-ThP-1, 65
Yang, Yingchao: MI-MoM-3, 9
Yang, Yong: SS-MoA-9, **13**
Yang, Yung-Chin: SE-WeM-3, 35
Yanguas-Gil, Angel: AP1+EL+MS+PS+TF-TuA-1, **30**
Yao, Chenhao: TF2-TuA-11, 31
Yao, Junpin: PS2-WeA-11, 44
Yao, Yichen: PS-ThP-38, **70**
Yarytska, Sofiia: 2D-ThP-2, 64
Yashima, Kenta: PS-ThA-3, 60
Yasmin, Samira: MC-TuM-1, **24**
Yates, Elizabeth A.: BI1-TuM-3, 27
Yates, Matthew: BI-MoM-1, 7
Yatom, Shurik: PS1-TuA-5, 29
Ye, Weike: AIML3-FrM-10, 79
Yehuda-Zada, Yaacov: AC-FrM-14, 82; AC-ThP-6, 64; AC-ThP-7, 64
Yeom, Geun Young: PS-ThP-41, 70; PS-ThP-42, 70; PS-ThP-43, 70
Yeon Byun, Mi: SS-ThA-4, 59
Yescas, Carlos: BT+AS+CA+TF-ThP-2, 65
Yi, Feng: CA2-FrM-13, 75; PS-ThP-27, 70
Yi, Ming: LS-MoM-4, 8
Yi, Shinwook: PS-ThA-3, 60
Yijun, Park: SS-ThP-13, **71**
Yohannes, Daniel: QS1-MoA-7, 12
Yom, Typher: TF1-TuA-1, 31; TF1-TuA-2, 31
Yong, Zoey: UN-ThP-21, 73
Yoo, Kyung-Hoon: AP+EL+PS+TF-ThP-1, **66**
Yoo, Sung: LS-ThP-2, 68
Yook, Yeon Geun: PS1-ThM-3, **51**; PS2-ThM-15, 51; PS2-TuM-17, 22
Yoon, Cheolhwan: 2D-ThA-7, **58**
Yoon, Eun Seok: PS-ThP-41, **70**
Yoon, Tae-Sik: EM-TuA-11, 32; EM-TuA-12, 32; EM-TuA-5, 32
York, Micheal: UN-ThP-6, **73**
Yoshida, Soichiro: PS1-WeM-7, 37
Yoshida, Yusuke: AS-WeM-4, 40
Yosifov, Dimo: VT-ThP-8, **74**
Yost, Andrew: AC-ThM-17, 56; CA2-FrM-12, 75; SS-ThP-20, 71
You, Shinjae: PS1-ThM-7, 51
Younce, Nathan: TF-ThP-25, **73**
Young, Joshua: FUS-ThP-7, 68
Young, Linda: AC-FrM-1, 82
Young, Matthias J.: AIML1-ThM-4, 53; AP+EL+EM+PS+TF-TuM-14, 23; AP2+EL+PS+TF-FrM-11, 78; BT1+AS+CA+TF-ThM-7, 55; TF1-WeM-2, 39
Yousefian, Pedram: NS-TuM-4, 26
Yu, Dong-Hun: PS-ThP-10, 69
Yu, Hao: 2D-ThM-5, 50; PS2-FrM-11, **77**
Yu, Hongbin: PK+MS-FrM-4, **76**
Yu, Jeong-Hoon: BT+AS+CA+TF-ThP-1, 65
Yu, Jong-Sung: BT+AS+CA+TF-ThP-1, **65**; MI1-MoA-4, **17**
Yu, Kai-Hung: AM1+EM+TF-WeA-3, 46
Yu, Marcus: NS-ThP-10, 69
Yu, Meng-Ju: QS1-MoA-7, 12
Yu, Miao: TS-ThM-8, 56
Yu, Woo Jong: 2D-ThP-3, 64

Author Index

Yu, Xiao-Ying: AS1+CA+EL-ThM-6, **49**; BT2+AS+CA+TF-ThM-15, 55; CA2-FrM-11, 75; CA-ThP-10, 67; CA-ThP-3, **67**; CA-ThP-7, 67
Yu, Zhuohang: 2D-ThP-16, 64
Yun, Hyunho: AIML2-FrM-5, **79**
Yun, Jungwon: SS-FrM-8, 76
Yun, Minji: SS-MoM-5, 11
Yun, Narae: SS-FrM-15, 76
Yun, Yongju: SS-MoM-5, **11**
Yun, Youngmin: LS-TuM-6, 25

— Z —

Zaccardi, Alex: TF-TuM-3, 23; UN-ThP-2, 73
Zaccardi, Alexander: UN-ThP-5, **73**
Zaccarine, Sarah: AS-ThP-7, 66
Zaera, Francisco: SS-ThP-37, 72; SS-WeA-9, **43**; SS-WeM-5, 36
Zafar, Abdullah: PS-ThA-9, 60
Zahiri, Ben: BT+AS+CA+TF-ThP-2, 65
Zahl, Percy: SS-MoA-14, **13**; SS-MoA-15, 13
Zakel, Julia: AS-WeA-3, 47
Zakharov, Alexei: LS-MoA-13, 18
Zakharov, Dmitri: **AIML2-ThM-13**, 53
Zalitis, Christopher M.: LS-TuM-4, 25
Zámbó, Dániel: TF2-MoA-13, 16
Zapol, Peter: BT1+AS+CA+TF-FrM-3, 81
Zappone, Bruno: BI-MoM-7, **7**
Zavare, Om Amar: SS-TuA-4, 28
Zaz, M. Zaid: SS-MoA-5, 13
Zaz, Mohammad Zaid: MI2-MoA-14, 17
Zelenay, Piotr: AS-WeM-17, 40
Zeng, Chao: EL-ThA-7, 63; EL-ThA-9, 63
Zgid, Dominika: LS-MoM-5, 8
Zhai, Zixin: 2D-ThP-13, 64; 2D-WeM-17, 36
Zhang, Chen: MI-MoM-3, 9
Zhang, Difan: AS1+CA+EL-ThM-6, 49
Zhang, Haiwei: NS-TuM-4, 26
Zhang, Honghu: SS-FrM-12, 76
Zhang, Luojia: QS-ThP-3, 70
Zhang, Meng: TF+AP+EUV-FrM-3, 83
Zhang, Mingyi: AS-TuA-8, 32
Zhang, Qi: TF+AP+EUV-FrM-3, 83
Zhang, Qihua: 2D-TuA-3, 28
Zhang, Sen: CA2-FrM-9, **75**
Zhang, Shixiong: QS-MoM-4, 10
Zhang, Shuai: NS-TuM-5, 26
Zhang, Tan: TF-ThP-18, 73
Zhang, Tongxie: QS-MoM-4, 10
Zhang, Wenyu: PS1-FrM-5, 77
Zhang, Xiaoman: AM+EM+TF-ThM-13, 54
Zhang, Xin: AC-FrM-1, 82; AS-WeA-10, 47; CA2-FrM-12, 75; SS-FrM-12, 76; SS-ThP-20, 71
Zhang, Xixiang: MI-MoM-5, 9
Zhang, Yichen: LS-MoM-4, 8
Zhang, Yuanyuan: SS-MoA-5, 13
Zhang, Yuewei: EL-ThP-9, 71
Zhang, Zaoli: SE-ThA-4, 58
Zhao, ChenYu: QS2-MoA-13, 12
Zhao, Feng: EM-TuA-4, **32**
Zhao, Han: MC-MoA-3, **19**
Zhao, Huan: MI-MoM-3, 9
Zhao, Junjie: AP+EL+EM+PS+TF-TuM-7, 23; TF1-WeM-7, **39**
Zhao, Liuyan: LS-MoM-5, 8
Zhao, Yatong: SS-FrM-12, 76
Zhao, Yi-Feng: TF-WeA-11, 45
Zhao, Yiping: NS-TuA-4, 33
Zhong, Xiahua: MI-MoM-3, **9**
Zhou, Fei: AM+EM+TF-ThP-6, 65; EM-TuA-8, **32**
Zhou, Guangwen: SS-TuM-8, 21
Zhou, Hua: TF-WeA-11, 45
Zhou, Jianbin: SS-FrM-12, 76
Zhou, Jing: SS-ThP-21, 71
Zhou, Juan: LS-MoA-3, 18; LS-MoA-4, 18
Zhou, Lin: AM+EM+TF-ThM-7, 54
Zhou, Wei: TF1-WeM-8, 39
Zhou, Yifeng: PS1-FrM-3, **77**
Zhu, Hui: 2D-ThP-28, 64
Zhu, Ji: AP+EL+PS+TF-WeM-17, 38
Zhu, Tingting: 2D-ThM-3, 50; EL-ThP-1, 71
Zhu, Yiru: 2D-ThP-20, 64
Zhu, Zihua: AS1+CA+EL-ThM-6, 49; AS-WeA-10, **47**; CA-ThP-5, 67
Zide, Joshua: EM-ThP-6, 67
Ziegler, Sebastian: NS-ThP-7, 69
Ziemba, Timothy: AP+EL+MS+PS+TF-ThA-1, 60; PS2-ThM-17, 51; PS-ThP-5, 69; PS-ThP-6, **69**
Zier, Sandro: BI-MoA-13, **19**
Zimmerman, Paul: AIML1-ThM-6, 53
Zong, Ze: TF1-WeM-8, 39
Zuccaro, Andrea: UN-ThP-24, 73
Zulqarnain, Syed: PS1-ThM-4, **51**; PS1-ThM-6, 51
Zuo, Kun: QS-MoM-5, 10
Zychla, Michał: MC-ThP-3, 69