

Sunday Afternoon, September 21, 2025

Nanoscale Science and Technology Plenary Session

Room 206 A W - Session NSP-SuA

Nanoscale Science and Technology Plenary Session (ALL-INVITED SESSION)

Moderator: Nikolai Klimov, NIST

3:00pm **NSP-SuA-1 Wide Bandgap III-Nitride Nanostructures: Epitaxy, Properties, and Emerging Device Applications, *Zetian Mi***, University of Michigan, Ann Arbor **INVITED**

In this talk, I will present recent advances on the molecular beam epitaxy of (ultra)wide bandgap III-nitride nanostructures and their unique optical, electronic, catalytic, piezoelectric, and ferroelectric properties. I will further discuss their emerging applications in ultraviolet optoelectronics, micro/nanoscale LEDs, high power, high frequency and high temperature electronics, and artificial photosynthesis.

3:30pm **NSP-SuA-3 NSTD Graduate Award Finalists Presentations,**

4:00pm **NSP-SuA-5 NSTD Early Career Award Finalists Presentations,**

4:45pm **NSP-SuA-8 Invited Paper, *John A. Notte***, Carl Zeiss Microscopy, LLC **INVITED**

5:15pm **NSP-SuA-10 Nanoscale Science and Technology Plenary Reception,**

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