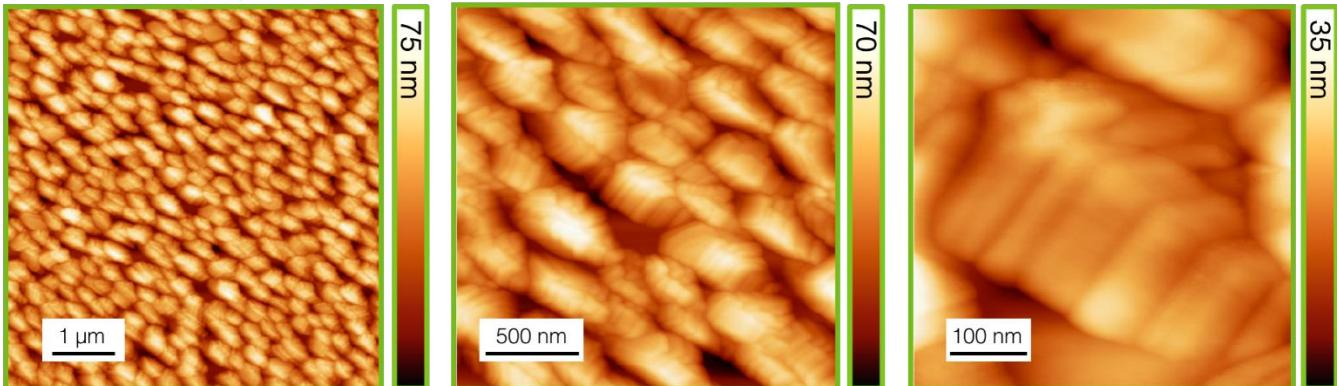
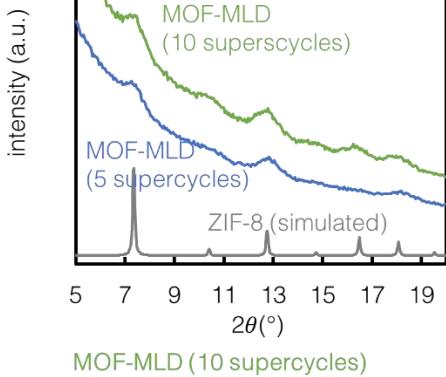
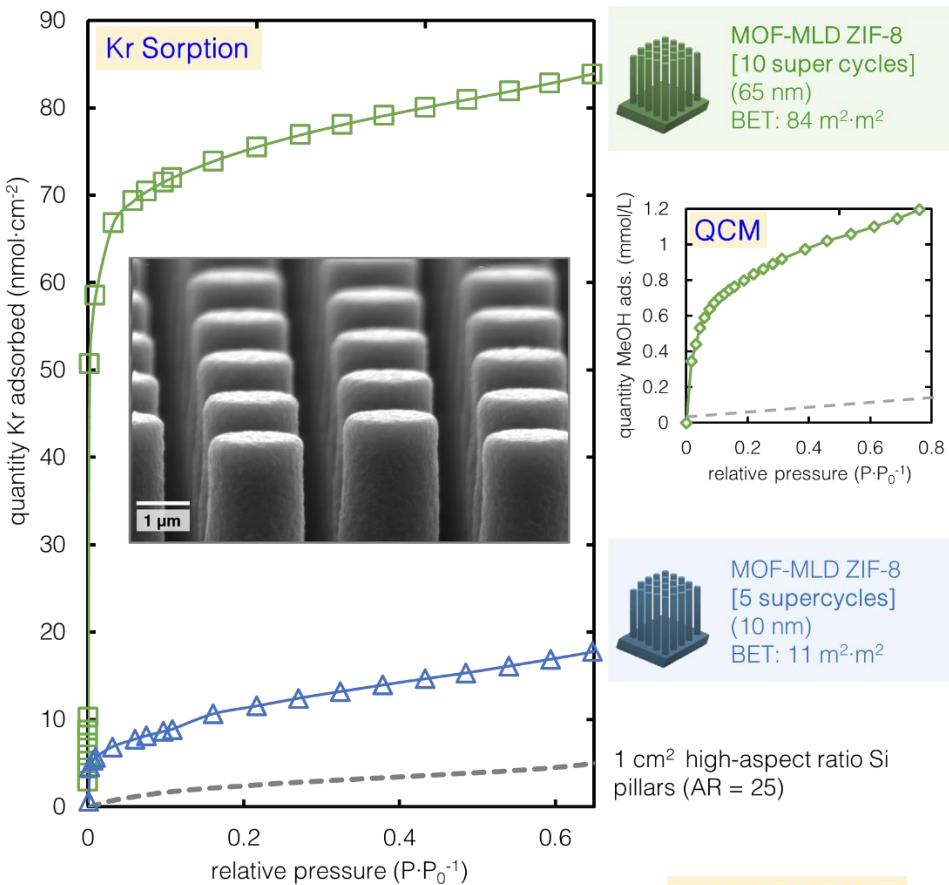
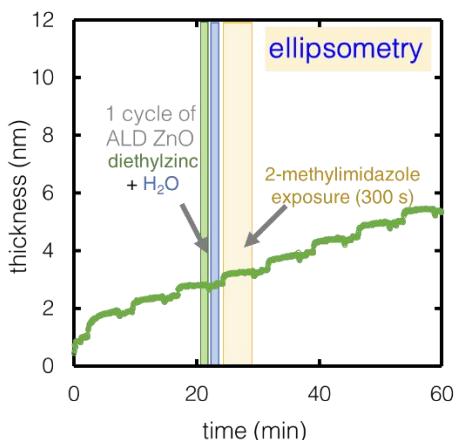


# MOF-MLD ZIF-8 on a page

crystalline □ porous □ conformal



pioneering  
study of  
MLD ZIF-8

crystalline and porous  
*as-deposited* under  
mild conditions

- ✓ single-chamber
- ✓ mild condition
- ✓ elimination of post-deposition treatments

our process distinguishes  
itself from previous studies\*  
on MLD/CVD MOF coatings

establishment of a  
*standard* film  
quality evaluation  
protocol

complementary film  
characterization techniques  
ellipsometry, AFM, SEM, krypton  
and methanol porosimetry

\*Medishetty, R. et al., Dalton Trans. 47, 14179–14183 (2018) | Ahvenniemi, E. & Karppinen, Chem. Commun. 52, 1139–1142 (2016) | Lausund, K. B. & Nilsen, Nat. Commun. 7, 13578 (2016) | Lausund, K. B., Petrovic, V. & Nilsen, O., Dalton Trans. 46, 16983–16992 (2017) | Salmi, L. D. et al., Microporous Mesoporous Mater. 182, 147–154 (2013)