

**Friday, August 18, 2023**  
**775 Tan Hall**  
**8:45 AM - 4:45 PM**

**Program:**

- 08:45 a.m. Continental Breakfast
- 09:15 a.m. Welcoming Remarks and Introductions  
Prof. Peidong Yang, Director, Kavli ENSI
- 09:30 a.m. Keynote Speaker  
Prof. Raffaella Buonsanti, École Polytechnique Fédérale de Lausanne  
“Colloidal nanocrystals to advance catalysis and energy technologies”
- 10:30 a.m. Hossein Taghinejad, Heising-Simmons Junior Fellow  
“Lateral Confinement in 2D Materials: There’s Plenty of Room within the Plane”
- 11:00 a.m. Networking Break
- 11:15 a.m. Kavli Graduate Student Fellows
- Ruishi Qi  
“Thermodynamic Behavior and Perfect Coulomb Drag in Strongly Correlated Electron-Hole Bilayers”
- Rafaela Brinn  
“Quantitative Comparison of Recombination Rates of Core/Shell Quantum Dots in Colloidal Solutions and Self-Assembled Monolayer Superlattices”
- Zhiling Zheng  
“Metal-Organic Frameworks for Water Harvesting from Desert Air”
- 12:15 p.m. Lunch and Poster Session
- 01:30 p.m. Kavli Graduate Student Fellows
- Cheng Zhu,  
“Supramolecular Assembly of Halide Perovskite Building Blocks”
- Leo Hamerlynch  
“Structure-function Relationships in Photosynthetic Membranes Revealed Through Time-Resolved Scattering Microscopy”
- Shiun-Jr Yang  
“Understanding Natural Photosynthesis Through the Energy Transfer Network of Photosystem II”

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- 02:30 p.m. Kavli Graduate Student Fellows
- Evan Spottle-Smith  
“Towards Predictive Understanding of Electrolyte Decomposition in Multivalent-ion Batteries”
- Boyu Qie  
“Engineering Non-Trivial Topological Flat Bands in Lower-Dimensional Lattices”
- Aidan Delgado  
“Engineering non-Hermitian Topological Phases in Graphene Nanoribbons”
- 03:30 p.m. Networking Break
- 03:45 p.m. Kavli Graduate Student Fellows
- Ziyi Wang  
‘Probing Symmetry Breaking in an Unconventional Polymer with Non-Planar Distortions’
- Yu Hsuan Lin  
“Manipulation of Transport Signals in Noncollinear Antiferromagnets Through Magnetic Textures”
- 04:30 p.m. Concluding Remarks  
Prof. Omar Yaghi, Co-Director, Kavli ENSI
- 04:45 p.m. Adjourn