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### Research Theme

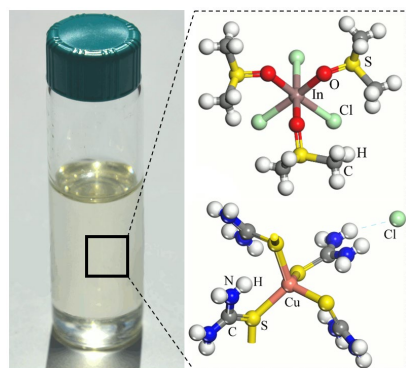
Electromagnetic and Nanoscale Materials Manufacturing (ENMM)

### Research Areas

- Solution-processed semiconductors
- Flexible and light-weight thin film solar cells (CIGS, CZTS, perovskites, etc.)
- Low-cost catalysts and devices for clean and storable solar fuels
- Interface engineering and device integration for next generation technologies

### Research Facilities/Tools

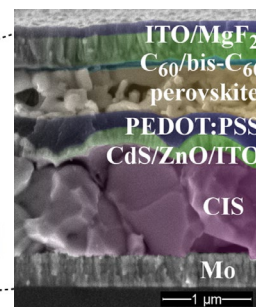
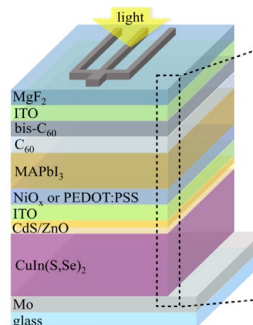
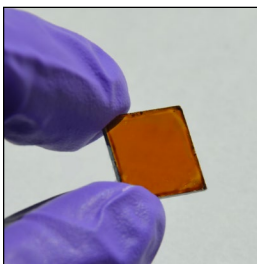
- Elemental analysis (ICP-MS, EDX)
- Microstructure analysis (SEM, EBSD, XRD)
- Electrochemical Impedance Spectroscopy (EIS)
- Solar simulator for electrical device characterization (I-V, EQE)
- Vacuum and non-vacuum deposition techniques for thin films



*Low-cost solution-deposition methods*

Energy & Environmental Science

*Semi-transparent solar cells*



*Integrated tandem devices*

**ADVANCED ENERGY MATERIALS**