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Research Theme

Electromagnetic and Nanoscale Materials Manufacturing (ENMM)

Research Areas

- Advanced Nanofabrication
- Atomic/Molecular Layer Deposition
- Lithium-ion batteries for electric vehicles
- Beyond lithium-ion batteries (Li-S, Na-ion, solid-state batteries)
- Surface/interface in energy systems
- Synchrotron radiation characterization
- Electrode and electrolyte materials for batteries

Research Facilities/Tools

- Atomic Layer Deposition (ALD) System with In-Situ Quartz Crystal Microbalance (QCM)
- Battery Research Facility
- Chemical Vapor Deposition System







