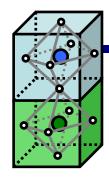
Multifunctional Heterostructures of Perovskite Structured Materials





Yayoi Takamura
Assistant Professor
Dept. Chem. Eng. & Materials Science,
University of California, Davis

Research Program

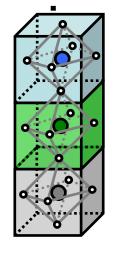
- Perovskite structured oxides possess a diverse range of functional properties and display unexpected physical phenomena at surfaces and interfaces.
- *Laser-assisted growth* to control interfacial properties
- State-of-the-art characterization techniques to determine the structural, chemical, magnetic, and electrical properties.

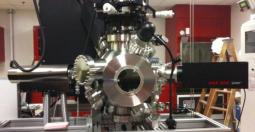
Facilities

- Pulsed laser deposition (PLD) system with RHEED for *in-situ* characterization
- Bruker D8 Discover 4-circle diffractometer
- SQUID magnetometer (Physics)

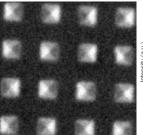
Collaborators:

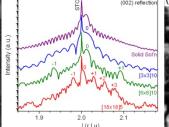
- At UC Davis:
 - Nigel Browning: TEM/STEM/EELS
 - Sangtae Kim: AC impedance spectrometry
 - Alexandra Navrotsky: Thermochemistry
- Stanford Synchrotron Radiation Lightsource: Structural characterization
- Advanced Light Source (LBNL): Soft x-ray magnetic spectroscopy and imaging
- Center for Nanophase Materials Science (ORNL): Nanopatterning, PLD

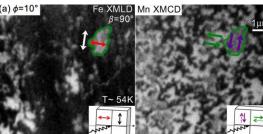












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