



Dr. Wei Lai

Assistant Professor

Department of Chemical Engineering and Materials Science

College of Engineering

Dr. Wei Lai is an assistant professor in the Department of Chemical Engineering and Materials Science at Michigan State University. He joined the Chemical Engineering and Materials Science faculty in August 2009.

Dr. Lai's research is focused on the study of advanced materials and electroanalytical methods for energy conversion and storage technologies (batteries, thermoelectrics, etc). His research efforts are centered around Solid-state Ionic Conductors (SIC) and Solid-state Mixed Ionic and Electronic Conductors (SMIEC) as battery electrolytes and electrodes and thermoelectric (TE) materials. Through his work, he is applying a suite of average and local structure and dynamics probes to understand their fundamental structure-property relationships, in order to rationally improve and design materials with superior performance.

Dr. Lai got his bachelor's degree from the University of Science and Technology of China. He earned his master's degree and Ph.D. in Materials Science from the California Institute of Technology.

Global research interests

- SIC and SMIEC as battery electrolytes and electrodes
- TE materials
- Average and local structure and dynamics probes for materials characterization

Geographic focus

- Asia
- United Kingdom