

Miaofang Chi

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Biography:

Miaofang Chi is a distinguished scientist at the Center for Nanophase Materials Sciences (CNMS) at Oak Ridge National Laboratory (ORNL). She received her Ph.D. in Materials Science and Engineering from the University of California, Davis, in 2008. She was awarded the Burton Medal by the Microscopy Society of America (2016) and the Kurt Heinrich Award from the Microanalysis Society (2019). She received the ORNL Director's Award for Outstanding Individual Accomplishment in Science and Technology (2015 and 2021) and was named to Clarivate's list of Highly Cited Researchers in 2018, 2020, 2021. She serves on the editorial board of Materials Today and served as the award committee chair for Microscopy Society of America (MSA).

Research Interests and Topics of Presentation:

Miaofang's primary research interests are understanding interfacial charge transfer and ion transport behavior in energy and quantum materials and systems by advancing and employing novel electron microscopy techniques. Topics for the presentation could include:

- 4D-STEM (four-dimensional scanning transmission electron microscopy) for energy and quantum materials research
- In situ STEM and EELS (electron energy loss spectroscopy) for Battery Materials and Catalysts
- Atomic resolution cryogenic STEM and EELS for quantum materials