

Jiamian Hu

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Education and Training

- Postdoc, Materials Science and Engineering, The Pennsylvania State University, 2013-2015
- PhD in Materials Science and Engineering, Tsinghua University, 2013
- BS in Materials Physics, Sichuan University, 2008

Professional Experience

- 2018.1-present, Assistant professor, Department of Materials Science and Engineering and Grainger Institute for Engineering, University of Wisconsin-Madison, USA
- 2015.5-2017.12, Research Associate, Department of Materials Science and Engineering, The Pennsylvania State University, USA

Current Research

- Phase-Field Modeling of Ferroic Materials and Devices
- Phase-Field Modeling of Multiphase Flow Kinetics
- Machine Learning the Materials Microstructure

Research Accomplishments

- 70 journal publications, including 1 *Nature Materials*, 1 *Physical Review Letters*, 4 *Nature Communications*, 3 *Science Advances*, 3 *Advanced Materials*, 2 *Nano Letters*, 1 *ACS Nano*, 1 *Advanced Functional Materials*.
- Citations (Google Scholar 01/30/2020): 4690, H-index=27.
- 3 US Patents filed as the main inventor.
- 8 Invited conference presentations.

Selected Awards

- Vilas Associate Award, University of Wisconsin-Madison, 2021
- American Chemical Society Petroleum Research Fund Doctoral New Investigator, 2020
- Materials Research Society Postdoctoral Award, 2015
- American Ceramic Society Graduate Excellence in Materials Science Diamond Award, 2012
- Materials Research Society Graduate Student Gold Award, 2011

Teaching

- MS&E 660: Mesoscale Modeling of Materials
- MS&E 330: Thermodynamics of Materials

Professional Activities

- Reviewers for >40 different peer-reviewed journals and for Funding Agencies.
- Organizer of Conference Symposia: Symposium EL12 “Ferroic Materials and Heterostructures for Electronics and Data Storage” in the 2020 MRS Spring meeting (Co-organizer). Symposium S3 “Frontiers in Ferroic Oxides: Synthesis, Structure, Properties, and Applications” in the 2020 EMA conference (Co-organizer). Mini-symposium “Voltage control of nanomagnetism” in the 2019 MMM-Intermag conference (Main organizer). Symposium “Energy Sustainable Optoelectronics and Magneto-electronics”, EMA conference 2017 (Main organizer).