

Ming Zhao

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Education

2015 – 2019 Ph. D. Georgia Institute of Technology (Chemistry)

2012 – 2015 M. E. Nanjing University (Materials Science and Engineering)

2008 – 2012 B. S. Nanjing University (Materials Science and Engineering)

Professional Career

2023.03– Present Assistant Professor, MSE, National University of Singapore, Singapore

2019.09 – 2022.11 Post-doctoral researcher, Cornell University, USA

Selected Publications

1. L. M. Zhao, Z. Zhao, W. Li, R. Ye, X. Mao, M. Yang, P. Padgett, P. Chen, Long-range adsorption enhancement on metal-promoted photocatalysts. *Nat. Catal.* 2024, 7, 912-920.
2. M. Zhao, Z. Chen, Y. Shi, Z. D. Hood, Z. Lyu, M. Xie, M. Chi, Y. Xia, Kinetically-Controlled Synthesis of Rhodium Nanocrystals with Different Shapes and a Comparison Study of Their Thermal and Catalytic Properties. *J. Am. Chem. Soc.* 2021, 143, 6293–6302.
3. M. Zhao, Y. Xia, Crystal-Phase and Surface-Structure Engineering of Ruthenium Nanocrystals. *Nat. Rev. Mater.* 2020, 5, 440–459.
4. M. Zhao, Z. Chen, Z. Lyu, Z. D. Hood, M. Xie, M. Vara, M. Chi, Y. Xia, Ru Octahedral Nanocrystals with a Face-Centered Cubic Structure, {111} Facets, Thermal Stability up to 400 °C and Enhanced Catalytic Activity. *J. Am. Chem. Soc.* 2019, 141, 7028–7036.

Research Interests

1. Phase engineering of nanomaterials for sustainability applications.
2. Chemical imaging of nanocatalysis.
3. Advanced imaging technique development.

Awards

1. American Chemical Society 「Nano Letters Early Career Board 2025」
2. Royal Society of Chemistry 「JMCA Emerging Investigators 2024」
3. Nano Research Energy 「NRE Young Star Researcher Gold Award 2022」
4. Sigma Xi 「Sigma Xi Best Doctoral Dissertation 2020」
5. Georgia Institute of Technology 「William Emerson First Place Presentation 2019」