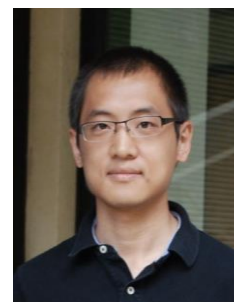


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Academic Qualification:

Ph.D. in Chemistry, Rice University, 2019

M.S. in Chemistry, Shanghai Jiao Tong University, 2014

B.S. in Chemistry, Jilin University, China, 2011

Teaching Area

Materials Science and Engineering

Research Area

Single-particle spectroscopy

Plasmonics

Nanofabrication and self-assembly

Working Experience

2024-present, Assistant Professor, Department of Materials Science and Engineering, Faculty of Innovation Engineering, Macao University of Science and Technology, Macau, China

2019-2023, Postdoctoral Researcher, Department of Electrical and Systems Engineering, University of Pennsylvania, Philadelphia, USA

Academic Publication (selected)

Cai, Y.-Y.; Fallah, A.; Yang, S.; Choi, Y. C.; Stein, A.; Kikkawa, J. M.; Murray, C. B.; Engheta, N.; Kagan, C. R. "Open- and Close-Packed Oligomers via Template-Directed Assembly of Shape-Engineered, Lithographically-Fabricated Nanoparticles", *Adv. Mater.* 2023, 35, 2301323.

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Patents

Method of Catalytic Reduction of Olefins over Mesoporous Carbon Nitride Supported Metal Nanoparticles, Li, X.-H.; Gong, L.-H.; **Cai, Y.-Y.**; Chen, J.-S. CN103641673B, Grant Sept. 2015

Professional Society Membership

Member, American Chemical Society