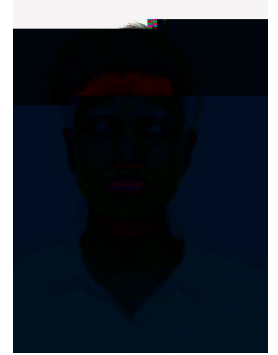


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Academic Qualification:

Ph.D. in Materials Engineering, Monash University, 2019

M.Sc. in Chemistry, Soochow University, 2015

B.Sc. in Chemistry, Soochow University, 2012

Teaching Area

Materials Science and Engineering

Research Area

Nanophotonics, plasmonics and optoelectronics

Low-dimensional materials and devices

Working Experience

Assistant Professor, Macau University of Science and Technology, 2022 - present

Research Fellow, Monash University, 2019 - 2022

Selected Journal Papers

G. Hu†, Q. Ou†, G. S., Y. Wu, J. Wu, Z. Dai, A. Krasno, Y. Mazor, Q. Zhang, Q. Bao*, C.-W. Qu*, A. Au*, Topological photonic band structure in two-dimensional α -MoO₃ bilayers. **Nature** 2020, 582, 209. (Selected as Top 10 Breakthrough of the Year by *Physics World*)

Q. Zhang†, Q. Ou*†, G. S., G. Hu, S. Dong, Y. Chen, J. Ni, C. Zhao, M. S. Fuhrer, Y. Yang, A. Au*, R. Henbran*, C. W. Qu*, Uniaxial anisotropy induced topological photonic band structure in g-symmetry orthorhombic crystals. **Science Advances** 2022, 8, eabn9774.

Y. Wu†, Q. Ou*†, S. Dong†, G. Hu, G. S., Z. Dai, C. W. Qu, M. S. Fuhrer, S. Moapat*, Q. Bao*, Efficient Tunable Reflection of Photonic Photons at Built-In Intercalation Interfaces. **Advanced Materials** 2021, 33, 2008070.

Q. Zhang†, Q. Ou*†, G. Hu, J. Lu, Z. Dai, M. S. Fuierer, Q. Bao*, C. W. Qu*, Hybrid Hyperbolic Surface Plasmon Polaritons at α -MoO₃ and Polar Dielectric Interfaces. **Nano Letters** 2021, 21, 3112.

Y. Wu†, Q. Ou†, Y. Yin, Y. Li, W. Ma, W. Yu, G. Lu*, X. Cu, X. Bao, J. Duan, G. Álvarez-Pérez, Z. Dai, B. S. Abbruzzo, N. Meade, X. Li*, C.-M. Li, P. Alonso-González, Q. Bao*, Chemical Switching of Low-loss plasmon polaritons in α -MoO₃ by hydrogen intercalation. **Nature Communications** 2020, 11, 2646.

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