

## Professor Yanguang Li

Macao Institute of Materials Science and Engineering

E-mail: ygli@must.edu.mo



### Academic Qualification:

- Ph.D. in Inorganic Chemistry, The Ohio State University, 2010
- B.S. in Chemistry, Fudan University, 2005

### Teaching Area

Materials science

### Research Area

- Advanced energy storage systems: metal-sulfur batteries, metal-air batteries, multivalent batteries
- CO<sub>2</sub> reduction electrocatalysis and device engineering

### Working Experience

- Professor, Macau University of Science and Technology, Macau, China, 2021-
- Professor, Soochow University, 2013-
- Postdoctoral scholar, Stanford University, 2010 – 2013

### Academic Publication (selected)

- Na Han, Mingzi Sun, Yuan Zhou, Jie Xu, Chen Cheng, Rui Zhou, Liang Zhang, Jun Luo, Bolong Huang, **Yanguang Li** "Alloyed Palladium-Silver Nanowires Stabilizing Carbon Dioxide Reduction to Formate", *Adv. Mater.* 33: 2005821 (2021).
- Miao Wang, Hao Yang, Jinan Shi, Yufeng Chen, Yuan Zhou, Liguang Wang, Sijia Di, Xuan Zhao, Jun Zhong, Tao Cheng, Wu Zhou, **Yanguang Li** "Alloying Nickel with Molybdenum Significantly Accelerates Bifunctional Hydrogen Electrocatalysis in Alkaline Solution", *Angew. Chem.* doi: 10.1002/anie.202013047.

- Yulei Sui, Jian Zhou, Xiaowei Wang, Ling Wu, Shengkui Zhong, **Yanguang Li** “Recent Advances in Black-Phosphorus-Based Materials for Electrochemical Energy Storage”, *Mater. Today* doi: 10.1016/j.mattod.2020.09.005.
- Qiufang Gong, Pan Ding, Mingquan Xu, Xiaorong Zhu, Maoyu Wang, Jun Deng, Qing Ma, Na Han, Yong Zhu, Jun Lu, Zhenxing Feng, Yafei Li, Wu Zhou, **Yanguang Li** “Structural Defects on Converted Bismuth Oxide Nanotubes Enable Highly Active Electrocatalysis of Carbon Dioxide Reduction”, *Nature Commun.* 10: 2807 (2019).
- Na Han, Yu Wang, Hui Yang, Jun Deng, Jinghua Wu, Yafei Li, **Yanguang Li** “Ultrathin Bismuth Nanosheets from In-Situ Topotactic Transformation for Selective Electrocatalytic CO<sub>2</sub> Reduction to Formate”, *Nature Commun.* 9: 1320 (2018).

#### Professional Society Membership

- Member, the Electrochemical Society.
- Senior member, Chinese Chemical Society.