

## Professor Li Yanguang

Faculty of Information Technology

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

- Postdoctoral scholar, Stanford University, 2010 – 2013
- Professor, Soochow University, 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.