

Professor LI, YANGUANG

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Academic Qualification

Ph.D. in Chemistry, Ohio State University

B.S. in Chemistry, Fudan University

Teaching Area

Materials Science & Engineering

Research Area

Electrocatalysis and photocatalysis

Working Experience

2010 - 2013 Postdoctoral researcher, Stanford University

2013 - present Professor, Soochow University

2021- present Professor, MUST

Academic Publication

1. Fang Lv, Mingzi Sun, Yongpan Hu, Jie Xu, Wei Huang, Na Han, Bolong Huang and Yanguang Li Near-Unity Electrochemical Conversion of Nitrate to Ammonia on Crystalline Nickel Porphyrin-Based Covalent Organic Frameworks. *Energy Environ. Sci.* 2023 in press
2. Jie Xu, Heng Xu, Anqi Dong, Hao Zhang, Yitong Zhou, Hao Dong, Bo Tang, Yifei Liu, Lexi Zhang, Xijun Liu, Jun Luo, Lijian Bie, Sheng Dai, Yuhang Wang, Xuhui Sun and Yanguang Li Strong Electronic Metal-Support Interaction Between Iridium Single Atoms and WO₃ Support Promotes Highly Efficient and Robust CO₂ Cycloaddition. *Adv. Mater.* 2022, 34, 2006991.
3. Wei Huang, Yongpan Hu, Zhengyuan Qin, Yujin Ji, Xuan Zhao, Yunling Wu, Qing He, Youyong Li, Chunfeng Zhang, Jun Lu and Yanguang Li Highly Crystalline and Water-Wettable Benzobisthiazole-Based Covalent Organic Frameworks for Enhanced Photocatalytic Hydrogen Production. *Natl. Sci. Rev.* 2023, in press
4. Xuan Zhao, Qi Yin, Xinnan Mao, Chen Cheng, Liang Zhang, Lu Wang, Tian-Fu Liu, Youyong Li and Yanguang Li Theory-Guided Design of Hydrogen-Bonded Cobaltoporphyrin Frameworks for Highly Selective Electrochemical H₂O₂ Production in Acid. *Nat. Commun.* 2022, 13, 2721.
5. Yunling Wu, Xinnan Mao, Mochun Zhang, Xuan Zhao, Renjie Xue, Sijia Di, Wei Huang, Lu Wang, Youyong Li and Yanguang Li 2D Molecular Sheets of Hydrogen-Bonded Organic Frameworks for Ultrastable Sodium-Ion Storage. *Adv. Mater.* 2021, 33, 2106079.
6. Lin Jia, Mingzi Sun, Jie Xu, Xuan Zhao, Rui Zhou, Binbin Pan, Lu Wang, Na Han, Bolong Huang and Yanguang Li Phase-Dependent Electrocatalytic CO₂ Reduction on Pd₃Bi Nanocrystals. *Angew. Chem. Int. Ed.* 2021, 60, 21741-21745.
7. Yang Huang, Xinnan Mao, Guotao Yuan, Duo Zhang, Binbin Pan, Jun Deng, Yunru Shi, Na Han, Chaoran Li, Liang Zhang, Lu Wang, Lin He, Youyong Li and Yanguang Li Size-Dependent Selectivity of Electrochemical CO₂ Reduction on Converted In₂O₃ Nanocrystals. *Angew. Chem. Int. Ed.* 2021, 60, 15844-15848.
8. Jia Fan, Xuan Zhao, Xinnan Mao, Jie Xu, Na Han, Hao Yang, Binbin Pan, Yongshen Li, Lu Wang, Yanguang Li* Large-Area Vertically-Aligned Bismuthene Nanosheet Arrays from Galvanic Replacement Reaction for Efficient Electrochemical CO₂ Conversion. *Adv. Mater.* 2021, 33, 2100910.
9. Miao Wang, Hao Yang, Jinan Shi, Yufeng Chen, Yuan Zhou, Liguang Wang, Sijia Di, Xuan Zhao, Jun Zhong, Tao Cheng, Wu Zhou, and Yanguang Li Alloying Nickel with Molybdenum Significantly Accelerates Bifunctional Hydrogen Electrocatalysis in Alkaline Solution. *Angew. Chem. Int. Ed.* 2021, 60, 5771-5777.
10. Na Han, Mingzi Sun, Yuan Zhou, Jie Xu, Chen Cheng, Rui Zhou, Liang Zhang, Jun Luo, Bolong Huang and Yanguang Li Alloyed Palladium-Silver Nanowires Stabilizing Carbon Dioxide Reduction to Formate. *Adv. Mater.* 2021, 33, 2005821.

Professional Certification and Awards

Materials Today Rising Star Award

Nano Research Young Innovators Award in Nanoenergy

2017-2022 Clarivate Highly Cited Researcher

Professional Society Membership

Senior Member of Chinese Chemical Society