

YANGUANG LI

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EDUCATION HISTORY

9/2005 – 6/2010 Ph.D. in Chemistry, Ohio State University, Columbus, OH

9/2001 – 6/2005 B. Sc. in Chemistry, Fudan University, Shanghai, China

PROFESSIONAL EXPERIENCE

9/2013 – present Professor, Soochow University

7/2010 – 7/2013 Postdoctoral Scholar, Department of Chemistry, Stanford University

RESERCH INTERESTS

- Synthesis and characterization of functional nanomaterials
- Electrocatalysis: nanomaterials for hydrogen evolution/oxidation, oxygen reduction, alcohol oxidation, CO₂ reduction
- Energy storage: nanomaterials for alkaline-ion batteries, metal-sulfur batteries, metal-O₂ batteries and metal-CO₂ batteries
- Photoelectrochemical and photocatalytic water splitting, CO₂ reduction and biomass valorization

HONORS & AWARDS

2017-2019 Clarivate Analytics "Highly Cited Researcher" (Chemistry)

2019 "Materials Today" Rising Star Award

"Nano Research" Young Innovator Award

Chinese Young Electrochemist Award

2017 Chinese Chemical Society Prize for Young Scientists

2015 "1000 Plan" Young Scholar

National Excellent Young Scientists

2010 Materials Research Society Graduate Student Silver Award, MRS Meeting

SERVICES ACTIVITIES

2019-present Young Star Editor, Nano Research

2019-present Executive Board Member, Science Bulletin

2018-today Editorial Board of Rising Stars, Chinese Journal of Chemistry

2018-today Editorial Managing Board, EnergyChem

2018-2020 Guest editor for Nano Research, Nanotechnology, MRS Bulletin

SELECTED PUBLICATION LIST

1. Tingting Wang, Miao Wang, Hao Yang, Mingquan Xu, Chuandong Zuo, Kun Feng, Miao Xie, Jun Deng, Jun Zhong, Wu Zhou, Tao Cheng*, and Yanguang Li*, Weakening Hydrogen Adsorption on Nickel via Interstitial Nitrogen Doping Promotes Bifunctional Hydrogen Electrocatalysis in Alkaline Solution, *Energy Environ. Sci.* **2019**, DOI: 10.1039/C9EE01743G. (featured in the front cover)
2. 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* and Yanguang Li*, Structural Defects on Converted Bismuth Oxide Nanotubes Enable Highly Active Electrocatalysis of Carbon Dioxide reduction, *Nature Commun.* **2019**, *10*, 2807.
3. Wei Huang, Qing He, Yongpan Hu and Yanguang Li* Molecular Heterostructures of Covalent Triazine Frameworks for Highly Enhanced Photocatalytic Hydrogen Production. *Angew. Chem.* **2019**, *58*, 8676-8680. (hot article, featured in the back cover)
4. Junmei Chen, Kaiyi Zou, Pan Ding, Jun Deng, Chenyang Zha, Yongpan Hu, Xuan Zhao, Jialing Wu, Jian Fan and Yanguang Li* Conjugated Cobalt Polyphthalocyanine as the Elastic and Reprocessable Catalyst for Flexible Li-CO₂ Batteries. *Adv. Mater.* **2019**, *31*, 1805484. (featured in the back cover)
5. Na Han, Yu Wang, Hui Yang, Jun Deng, Jinghua Wu, Yafei Li* and Yanguang Li* Ultrathin Bismuth Nanosheets from In-Situ Topotactic Transformation for Selective Electrocatalytic CO₂ Reduction to Formate. *Nature Commun.* **2018**, *9*, 1320.
6. Wenjing Huang, Xian-Yin Ma, Han Wang, Renfei Feng, Jigang Zhou, Paul N. Duchesne, Peng Zhang, Na Han, Feipeng Zhao, Junhua Zhou, Wen-Bin Cai* and Yanguang Li* Promoting Effect of Ni(OH)₂ on Palladium Nanocrystals Leads to Greatly Improved Operation Durability for Electrocatalytic Ethanol Oxidation in Alkaline Solution. *Adv. Mater.* **2017**, *29*, 1703057.
7. Junhua Zhou, Lu Wang, Mingye Yang, Jinghua Wu, Fengjiao Chen, Wenjing Huang, Na Han, Hualin Ye, Feipeng Zhao, Youyong Li and Yanguang Li* Hierarchical VS₂ Nanosheet Assemblies: A Universal Host Material for the Reversible Storage of Alkali Metal Ions. *Adv. Mater.* **2017**, *29*, 1702061.
8. Hualin Ye, Lu Ma, Yu Zhou, Lu Wang, Na Han, Feipeng Zhao, Jun Deng, Tianpin Wu, Yanguang Li* and Jun Lu* Amorphous MoS₃ as the Sulfur-Equivalent Cathode Material for High-Performance Room-Temperature Li-S and Na-S Batteries. *Proc. Natl. Acad. Sci.* **2017**, *114*, 13091-13096.
9. Na Han, Yu Wang, Lu Ma, Jianguo Wen, Jing Li, Hechuang Zheng, Kaiqi Nie, Xinxia Wang, Feipeng Zhao, Yafei Li*, Jian Fan, Jun Zhong, Tianping Wu, Dean J. Miller, Jun Lu*, Shuit-Tong Lee and Yanguang Li*, Supported Cobalt Polyphthalocyanine for High-Performance Electrocatalytic CO₂ Reduction. *Chem* **2017**, *3*, 652-664.
10. Fengjiao Chen, Wei Cui, Jie Zhang, Yeyun Wang, Junhua Zhou, Yongpan Hu, Yanguang Li* and Shuit-Tong Lee Photoelectroreduction toward Building-Block Chemicals. *Angew. Chem.* **2017**, *129*, 7287-7291. (hot article, featured in back cover)

11. Qiufang Gong, Yu Wang, Qi Hu, Jigang Zhou, Renfei Feng, Paul N. Duchesne, Peng Zhang, Fengjiao Chen, Na Han, Yafei Li, Chuanhong Jin, Yanguang Li* and Shuit-Tong Lee, Ultrasmall and Phase-Pure W₂C Particles for Efficient Electrocatalytic and Photoelectrochemical Hydrogen Evolution. *Nature Commun.* **2016**, 7, 1326.
12. Wenjing Huang, Hongtao Wang, Jigang Zhou, Jian Wang, Paul N. Duchesne, David Muir, Peng Zhang, Na Han, Feipeng Zhao, Min Zeng, Jun Zhong, Chuanhong Jin, Yanguang Li*, Shuit-Tong Lee and Hongjie Dai, A Highly Active and Ultra-Durable Methanol Oxidation Electrocatalyst Based on the Synergy of Pt-Ni(OH)₂-Graphene *Nature Commun.* **2015**, 6, 10035.
13. Liang Cheng, Wenjing Huang, Qiufang Gong, Changhai Liu, Zhuang Liu*, Yanguang Li* and Hongjie Dai Ultrathin WS₂ Nanoflakes as a High-Performance Electrocatalyst for the Hydrogen Evolution Reaction, *Angew. Chem.* **2014**, 30, 7860-7863. (hot article, featured as the inside back cover)