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师资队伍

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主要研究方向:

1. 过渡金属基微纳米材料的可控合成与组装
2. 绿色碳基材料的制备与功能化
3. 新能源储存与转换, 例如锂电池、电解水制氢等

简 历:

教育经历:

2004年09月至2008年06月 北京航空航天大学 专业: 应用化学 理学学士学位
 2008年09月至2014年01月 北京航空航天大学 专业: 材料科学与工程(微纳米技术)
 工学博士学位(导师: 郭林教授)

工作简历:

2014年02月至2014年11月 北京航空航天大学 博士后 郭林 教授
 2014年12月至2016年03月 美国芝加哥大学 博士后 Prof. Dmitri Talapin
 2016年04月至2018年07月 新加坡南洋理工大学 博士后 Prof. Xiong Wen (David) Lou (楼雄文 教授)
 2018年09月至今 浙江工业大学 校聘教授

研究(情况)项目:

近期部分论文:

浙工大

1. Huadong Yuan, Min Wu, Jianhui Zheng, Zhi-Gang Chen, Wenkui Zhang, Jianmin Luo, Chengbin Jin, Ouwei Sheng, Chu Liang, Yongping Gan, Yang Xia, Jun Zhang, Hui Huang, Yujing Liu, Jianwei Nai*, and Xinyong Tao*. Empowering Metal Phosphides Anode with Catalytic Attribute toward Superior

Cyclability for Lithium-Ion Storage. *Advanced Functional Materials*, 2019, DOI: 10.1002/adfm.201809051.

2. Jianmin Luo, Jianhui Zheng, Jianwei Nai, Chengbin Jin, Huadong Yuan, Ouwei Sheng, Yujing Liu, Ruyi Fang, Wenkui Zhang, Hui Huang, Yongping Gan, Yang Xia, Chu Liang, Jun Zhang, Weiyang Li,* Xinyong Tao*. Atomic Sulfur Covalently Engineered Interlayers of Ti_3C_2 MXene for Ultra-Fast Sodium-Ion Storage by Enhanced Pseudocapacitance. *Advanced Functional Materials*, 2019, DOI: 10.1002/adfm.201808107.

浙工大前

1. Jianwei Nai, Xiong Wen (David) Lou*. Hollow Structures Based on Prussian Blue and its Analog for Electrochemical Energy Storage and Conversion. *Advanced Materials*, 2019, DOI: 10.1002/adma.201706825.
2. Jianwei Nai, Jintao Zhang, Xiong Wen (David) Lou*. Construction of Single-Crystalline Prussian Blue Analog Hollow Nanostructures with Tailorable Topologies. *Chem*, 2018, 4, 1967.
3. Jianwei Nai, Yan Lu, Xin-Yao Yu*. Formation of Ti-Fe Mixed Sulfide Nanoboxes for Enhanced Electrocatalytic Oxygen Evolution. *Journal of Materials Chemistry A*, 2018, 6, 21891.
4. Juzhe Liu[#], Yongfei Ji[#], Jianwei Nai[#], Xiaogang Niu, Yi Luo*, Lin Guo*, Shihe Yang*. Ultrathin Amorphous Cobalt-Vanadium Hydr(oxy)oxide Catalysts for Oxygen Evolution Reaction. *Energy & Environmental Science*, 2018, 11, 1736.
5. Juzhe Liu[#], Jianwei Nai[#], Tingting You, Pengfei An, Jing Zhang, Guanshui Ma, Xiaogang Niu, Chaoying Liang, Shihe Yang*, Lin Guo*. The Flexibility of An Amorphous Cobalt Hydroxide Nanomaterial Promotes the Electrocatalysis of Oxygen Evolution Reaction. *Small*, 2018, 14, 1703514.
6. Enlai Hu, Yafei Feng, Jianwei Nai, Dian Zhao, Yong Hu*, Xiong Wen (David) Lou*. Construction of Hierarchical Ni-Co-P Hollow Nanobricks with Oriented Nanosheets for Efficient Overall Water Splitting. *Energy & Environmental Science*, 2018, 11, 872.
7. Yan Lu, Jianwei Nai, Xiong Wen (David) Lou*. Formation of $NiCo_2V_2O_8$ Yolk-Double Shell Spheres with Enhanced Lithium Storage Properties. *Angewandte Chemie - International Edition*, 2018, 57, 2899.
8. Jianwei Nai, Yan Lu, Le Yu, Xiong Wen (David) Lou*. Formation of Ni-Fe Mixed Diselenide Nanocages as a Superior Oxygen Evolution Electrocatalyst. *Advanced Materials*, 2017, 29, 1703870.
9. Jianwei Nai, Bu Yuan Guan, Le Yu, Xiong Wen (David) Lou*. Oriented Assembly of Anisotropic Nanoparticles into Frame-Like Superstructures. *Science Advances*, 2017, 3, e1700732.
10. Huabin Zhang, Jianwei Nai, Le Yu, Xiong Wen (David) Lou*. Metal-Organic-Framework-Based Materials as Platforms for Renewable Energy and Environmental Applications. *Joule*, 2017, 1, 77.
11. Shuqian Wang, Jianwei Nai, Shihe Yang, Lin Guo*. Synthesis of Amorphous Ni-Zn Double Hydroxide Nanocages with Excellent Electrocatalytic Activity toward Oxygen Evolution Reaction. *ChemNanoMater*, 2015, 1, 324.
12. Jianwei Nai, Jianxin Kang, Lin Guo*. Tailoring the Shape of Amorphous Nanomaterials: Recent Developments and Applications. *Science China Materials*, 2015, 58, 44.
13. Jianwei Nai, Huajie Yin, Tingting You, Lirong Zheng, Jing Zhang, Pengxi Wang, Zhao Jin, Yu Tian, Juzhe Liu, Zhiyong Tang*, Lin Guo*. Efficient Electrocatalytic Water Oxidation by Using Amorphous Ni-Co Double Hydroxides Nanocages. *Advanced Energy Materials*, 2015, 5, 1401880.
14. Qiong Wu, Dan Guo, Youwei Zhang, Hwei Zhao, Dezhi Chen, Jianwei Nai, Junfei Liang, Xianwu Li, Na Sun, Lin Guo*. Facile and Universal Access to Water-borne, Multifunctional Nacre-Mimetic Films with Excellent Stability. *ACS Applied Materials & Interfaces*, 2014, 6, 20597.
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16. Zhengbo Chen*, Jianwei Nai, He Ma, Zhiqiang Li. Nickel Hydroxide Nanocrystals-Modified Glassy Carbon Electrodes for Sensitive L-Histidine Detection. *Electrochimica Acta*, 2014, 116, 258.
17. Jianwei Nai, Yu Tian, Xin Guan, Lin Guo*. Pearson's Principle-Inspired Generalized Strategy for the Fabrication of Metal Hydroxides and Oxides Nanocages. *Journal of the American Chemical Society*, 2013, 135, 16082.

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19. [Jianwei Nai](#), Zhengbo Chen, Haopeng Li, Fangyuan Li, Yang Bai, Lidong Li*, Lin Guo*. Structure-Dependent Electrocatalysis of Ni(OH)₂ Hourglass-like Nanostructures Towards L-Histidine. *Chemistry-A European Journal*, 2013, 19, 501.

20. [Jianwei Nai](#), Jinliang Wu, Lin Guo*, Shihe Yang*. Coordination Polyhedra: A Probable Basic Growth Unit in Solution for the Crystal Growth of Inorganic Nonmetallic Nanomaterials? *Crystal Growth & Design*, 2012, 12, 2653.

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Note: # = 共同一作; * = 通讯作者

科研成果及专利:

1. 郭林, [仝建威](#)。一种氢氧化物及其氧化物空心结构纳米材料的制备方法。专利号: ZL201310109048.1



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