

基本信息

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职务		
职称	预聘助理教授/硕士生导师	
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系/研究所	纳米化学研究所	

教育背景

2014.09-2017.07	中国科学院化学研究所，物理化学专业，理学博士
2009.09-2012.07	山东师范大学，有机化学专业，理学硕士
2005.09-2009.07	山东师范大学，化学工程与工艺专业，工学学士

工作经历

2020.07-至今	北京理工大学化学与化工学院，预聘助理教授
2017.08-2020.07	中国科学院青岛生物能源与过程研究所，博士后

研究方向

1.	仿生纳米材料
2.	生物矿物结构化学
3.	
4.	

荣誉奖励

1.	
2.	
3.	

承担项目

1.	石墨炔/过渡金属硫化物层状复合杂化电极材料的可控制备；国家自然科学基金资助项目（21805299） 2019.01-2021.12, 27.5 万元, 主持
2.	石墨炔/过渡金属硫化物三明治结构复合杂化电极材料的可控制备；山东省自然科学基金博士基金项目（ZR2019BB053） 2019.06-2022.06, 10 万元, 主持
3.	二维平面材料石墨炔和过渡金属硫化物复合材料的研究；中国博士后自然科学基金面上项目（2017M62229）2017.11-2019.07, 10 万元, 主持

研究成果

目前主持国家自然科学基金青年基金项目一项，中国博士后基金面上项目一项，山东省自然科学基金博士基金一项。

1.	二维分子材料及其复合杂化纳米结构材料的可控制备及其在光电领域的应用。
2.	

代表性论文

1.	Gao Juan , Wang Ning, He Jianjiang, Yang Ze, Huang Changshui* Precise and Controllable N/C Ratio in Graphdiyne for Superior Li and Na Ions Storage Capacities, 2D Materials 7 (2020) 025032.
2.	Gao Juan , He Jianjiang, Wang Ning*, Li Xiaodong, Yang Ze, Wang Kun, Chen Yanhuan, Zhang Yanliang, Huang Changshui*, Robust C-S Bond Integrated Graphdiyne-MoS ₂ Nanohybrids for Enhanced Lithium Storage Capability, Chemical Engineering Journal 373 (2019) 660-667.
3.	Gao Juan , Li Jiaofu, Chen Yanhuan, Zuo zicheng Li Yongjun, Liu Huibiao,* Li Yuliang, Architecture and Properties of a Novel Two Dimensional Carbon Material Graphtetrayne. Nano Energy 43 (2018) 192-199.
4.	Gao Juan , Li Jiaofu, Xue Zheng, Liu Huibiao,* Li Yongjun, Li Yuliang*, Quantitative Detection of Visible Lighton Hybrid Nanostructures of Two-dimension Porous Conjugated Polymers and Charge-Transfer Complexes by Field Emission, Chemistry-An Asian Journal 11 (2016) 2778-2884.
5.	Gao Juan , He Dan, Zhang Wei, Xiao Zuo, Zuo Qiqun, Shi Zhiqiang,* Ding Liming*, Synthesis, characterization and photovoltaic properties of conjugated copolymers based on 2 alkyl thieno[3,4 b]imidazole. Synthetic Metals 162 (2012) 1694-1700.
6.	Wu Liangxia, Gao Juan , Lu Xianbo, Huang Changshui, Dhanjai, Chen Graphdiyne: A new promising member of 2D all carbon nanomaterial as robust electrochemical enzyme biosensor platform. Carbon 126 (2020) 568-575
7.	Wang Jing, Wang Kun*, Yang Ze, Li Xiaodong, Gao Juan , He Jianjiang, Wang Ning, Wang Huanlei, Zhang Yanliang, Huang Changshui* Effective Stabilization of Long Cycle Lithium Sulfur Batteries Utilizing In Situ Prepared Graphdiyne Modulated Separators, ACS Sustainable Chemistry &

	Engineering. 8 (2020) 1741-1750
8.	Wang Kun, Li Xiaodong, Wang Ning, Yang Ze, Gao Juan , He Jianjiang, Zhang Yanliang, Huang Lithiophilicity Acetylene Bonds Induced Nucleation and Deposition of Dendrite Free Lithium Metal Anode. ACS Applied Energy Materials 3 (2020) 2623-2633
9.	Yang Ze, Shen Xiangyan, Wang Ning, He Jianjiang, Li Xiaodong, Wang Xin, Hou Zhufeng, Wang Kun, Gao Juan , Jiu Tonggang, Huang Changshui. Graphdiyne Containing Atomically Precise N Atoms for Efficient Ancho ring of Lithium Ion, ACS Applied Materials & Interfaces 11 (2019) 2608-2617.
10.	Li Jiaofu, Chen Yanhuan, Gao Juan , Zuo Zicheng, Li Yongjun, Liu Huibiao, Li Yuliang, Graphdiyne Sponge for Direct Collection of Oils from Water, ACS Applied Materials & Interfaces 11 (2019) 2591-2598
11.	Si Wenyan, Yang Ze, Wang Xin, Lv Qing, Zhao Fuhua, Li Xiaodong, He Jianjiang, Long Yunze, Gao Juan , Huang Changshui, Fe,N Codoped Graphdiyne Displaying Efficient Oxygen Reduc tion Reaction Activity chemsuschem 12(2019)173-178
12.	Xue zheng, Yang Hui, Gao Juan , Li Chen Yanhuan, Jia Zhiyu, Li Yongjun, Liu Huibiao,* Yang Wensheng,* Li Yuliang, Li Dan, Controlling the Interface Areas of Organic/Inorganic Semiconductor Heterojunction Nanowires for High Performance Diodes, ACS Applied Materials & Interfaces 8 (2016) 21563-21569
13.	Yang Hui, Zhang Shengliang, Han Liheng, Zhang Zhou, Xue Zheng, Gao Juan , Li Yongjun, Huang Changshui, Yi Yuanping, Liu Huibiao, High Conductive Two-Dimensional Covalent Organic Framework for Lithium Storage with Large Capacity ACS Applied Materials & Interfaces 8 (2016) 5366-5375.
14.	Jiang Runsheng, Li Yongjun,* Gao Juan , Liu Huibiao, Li Yuliang, Synthesis, optical and redox properties of donor acceptor molecules based on diketopyrrolopyrrole, Scientia Sinica Chimica; 46(2016)1131-1140