



首页 学院概况 师资队伍 学科建设 科学研究 人才培养 招生就业 党群工作 校友工作 学生工作

刘阳个人简介

时间：2015-10-15 浏览：3473



刘阳

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欢迎对新能源材料及器件研究有兴趣并攻读学术硕士学位，专业硕士学位，或者调剂的学生联系！化学南楼三楼。

教育与工作经历：

2014.07 – 至今	讲师，副教授	河南师范大学
2015.11 – 2016.11	Research Fellow	National University of Singapore
2011.09 – 2014.07	博士 材料学	华中科技大学
2007.09 – 2010.07	硕士 高分子化学与物理	河南大学
2003.09 – 2007.07	学士 化学工程与工艺	河南科技学院

主讲课程：

化工基础实验

研究领域与兴趣：

能源转化与存储，钠离子电池，锂离子电池等.

近年来主持的主要科研项目：

国家自然科学基金青年基金，项目批准号：21503071 (2016.01-2018.12) 21万，在研.

河南省科技厅重点科技攻关项目，项目批准号：182102210376 (2018.01-2019.12).

河南省科技厅重点科技攻关项目，项目批准号：152102210286 (2015.01-2017.12).

河南省教育厅科学技术研究重点项目，项目批准号：15A150014 (2015.01-2016.12).

学术任职：

新能源领域杂志审稿及仲裁人：Energy&Environmental Science, Journal of Materials Chemistry A, ACS Applied Materials & Interfaces, Chemical Communications, Carbon等.

研究生培养：

目前所带三年级，二年级研究生均获得研究生国家奖学金. 18年首届毕业生获得河南省优秀毕业生荣誉.

仅第一/通讯作者研究论文：

- [21] Yun Qiao, Gangya Wei, Jiabao Cui, Mingming Zhang, Xiaoguang Cheng, Dandan He, Shuan Li, **Yang Liu***, Prussian blue coupling with zinc oxide as a protective layer: An efficient cathode for high-rate sodium-ion batteries. *Chemical Communications*, **2019**, 55, 549-552. (IF: 6.290)
- [20] **Yang Liu**, Yun Qiao, Ying Zhang, Zhi Yang, Tingting Gao, Dylan Kirsch, Boyang Liu, Jianwei Song, Bao Yang, and Liangbing Hu*. 3D printed separator for the thermal management of high-performance Li metal anodes. *Energy Storage Materials*, **2018**, 12, 197-203. (CiteScore Tracker 2017: 13.31)
- [19] **Yang Liu**, Yun Qiao*, Gangya Wei, Shuo Li, Zhansheng Lu, Xiaobing Wang, and Xiangdong Lou. Sodium storage mechanism of N, S Co-doped nanoporous carbon: experimental design and theoretical evaluation. *Energy Storage Materials*, **2018**, 11, 274-81. (CiteScore Tracker 2017: 13.31)
- [18] Yun Qiao, Ruimin Han, **Yang Liu***, Mengyue Ma, Xiaoguang Cheng, Qingling Li, Hongyun Yue, Zhaoxia Cao, Huishuang Zhang, and Shuting Yang*. Bio-inspired synthesis of ordered N/P dual-doped porous carbon and its use as anode for sodium-ion batteries. *Chemistry – A European Journal*, **2017**, 23, 16051-58. (IF: 5.160)
- [17] Yun Qiao, Mengyue Ma, **Yang Liu***, Ruimin Han, Xiaoguang Cheng, Qingling Li, Xiangnan Li, Hongyu Dong, Yanhong Yin, and Shuting Yang*. Tailoring the sodium storage performance of carbon nanowires by microstructure design and surface modification of N, O and S heteroatoms. *ChemElectroChem*, **2017**, 4, 2877-83. (IF: 4.446)
- [16] **Yang Liu***, Gangya Wei, Mengyue Ma, and Yun Qiao*. The role of acid in tailoring prussian blue as cathode for high performance sodium ion battery. *Chemistry – A European Journal*, **2017**, 23, 15991-96. (IF: 5.160)
- [15] Yun Qiao, Xiaoguang Cheng, **Yang Liu***, Ruimin Han, Mengyue Ma, Qingling Li, Hongyu Dong, Xiangnan Li, and Shuting Yang*. Architecture design of nitrogen-doped 3D bubble-like porous graphene for high performance sodium ion batteries. *Inorganic Chemistry Frontiers*, **2017**, 4, 2017-23. (IF: 5.106)
- [14] **Yang Liu***, Gangya Wei, Liudi Pan, Mingyan Xiong, Honglin Yan, Yuxi Li, Cong Lu, and Yun Qiao*. Rhombic dodecahedron ZIF-8 precursor: designing porous N-doped carbon for sodium-ion batteries. *ChemElectroChem*, **2017**, 4, 3244-49. (IF: 4.446)
- [13] **Yang Liu***, Dandan He, Ruimin Han, Gangya Wei and Yun Qiao*. Nanostructured potassium and sodium ions incorporated Prussian blue framework as cathode materials for sodium-ion batteries. *Chemical Communications*, **2017**, 53, 5569-5572. (IF: 6.290)
- [12] **Yang Liu**, and Zhiqiang Gao*. Synthesis of hierarchically porous nitrogen-doped carbon for sodium-ion batteries. *Chem ElectroChem*, **2017**, 4, 1059-1065. (IF: 4.446)
- [11] **Yang Liu**, and Zhiqiang Gao*. Heteroatom doping combined with microstructured carbon to enhance the performance of sodium-ion batteries. *Energy Technology*, **2017**, 5, 481-488. (IF: 3.175)
- [10] Yun Qiao, Mengyue Ma, **Yang Liu***, Shuo Li, Zhansheng Lu*, Hongyun Yue, Hongyu Dong, Zhaoxia Cao, Yanhong Yin and Shuting Yang*. First-principles and experimental study of nitrogen/sulfur co-doped carbon nanosheets as anode for rechargeable sodium ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 15565-15574. (IF: 9.931)
- [9] **Yang Liu**, Yun Qiao*, Xiangdong Lou, Xinhe Zhang, Wuxing Zhang and Yunhui Huang*. Hollow $K_{0.27}MnO_2$ nanosphere as cathode for high-performance aqueous sodium-ion batteries. *ACS Applied Materials & Interfaces*, **2016**, 5, 14564-14571. (IF : 8.097)
- [8] **Yang Liu**, Yun Qiao, Wuxing Zhang*, Zhen Li, Xiao Ji, Ling Miao, Lixia Yuan, Xianluo Hu and Yunhui Huang*, Sodium storage in Na-rich $Na_xFeFe(CN)_6$ nanocubes. *Nano Energy*, **2015**, 12, 386-393. (IF : 13.120)
- [7] **Yang Liu**, Yun Qiao, Wuxing Zhang*, Huan Wang, Kongyao Chen, Huaping Zhu, Zhen Li and Yunhui Huang*, Nanostructured alkali cations incorporated δ - MnO_2 cathode materials for aqueous sodium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 7780-7785. (2015 Journal of Materials Chemistry A Hot Papers)(IF: 9.931)
- [6] **Yang Liu**, Yun Qiao, Wuxing Zhang*, Henghui Xu, Zhen Li, Yue Shen, Lixia Yuan, Xianluo Hu, Xiang Dai and Yunhui Huang*, High-performance aqueous sodium-ion batteries with $K_{0.27}MnO_2$ cathode and their sodium storage mechanism. *Nano Energy*, **2014**, 5, 97-104. (IF : 13.120)
- [5] **Yang Liu**, Yun Qiao, Wuxing Zhang*, Pei Hu, Chaoji Chen, Zhen Li, Lixia Yuan, Xianluo Hu and Yunhui Huang*, Facile fabrication of CuO nanosheets on Cu substrate as anode materials for electrochemical energy storage. *Journal of Alloys and Compounds*, **2014**, 586, 208-215. (IF : 3.779)
- [4] **Yang Liu**, Yun Qiao, Wuxing Zhang*, Zhen Li, Xianluo Hu, Lixia Yuan and Yunhui Huang*, Coral-like α -MnS composites with N-doped carbon as anode materials for high-performance lithium-ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 24026-24033. (IF: 9.931)
- [3] **Yang Liu**, Yanbao Zhao*, Huajuan Luo, Zhishen Wu and Zhijun Zhang, Hydrothermal synthesis of CeF_3 nanocrystals and characterization. *Journal of Nanoparticle Research*, **2011**, 13, 2041-2047. (IF: 2.127)

[2] **Yang Liu**, Yanbao Zhao*, Laigui Yu and Zhishen Wu, Synthesis of CeF_3 nanostructures via ultrasonically assisted route and characterization of the same. *Journal of Alloys and Compounds*, **2009**, 485, L1-L4. (IF : 3.779)

[1] **Yang Liu**, Qinglan Zhao, Yanbao Zhao*, Xuehui Ma and Zhishen Wu, Synthesis and characterization of CeF_3 via ultrasound assisted route. *Journal of Inorganic Materials*, **2009**, 24, 549-552.

申请专利：

[1] 一种钾钠锰铁基普鲁士蓝类电极材料及其制备方法和应用. 申请号：201610913582.1.

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