

※ 个人简介

邱介山，男，1964 年出生，教授、博士生导师，国家杰出青年基金获得者、教育部长江学者特聘教授、国务院政府津贴专家、辽宁省高校“能源材料化工”创新团队带头人、国家“有突出贡献中青年专家”及国家“百千万人才工程”人选、全国化工优秀科技工作者、全国百篇优秀博士论文指导教师。现任大连理工大学化工与环境生命学部副部长，兼任大连理工大学能源研究院副院长、美国 PSU-DUT 能源联合中心主任、辽宁省“能源材料化工重点实验室”主任等职。主要从事材料化工、能源化工、多相催化等方面的研究。

※ 研究方向

- 1、新型及高性能炭素材料的制备及其应用
- 2、基于纳米炭素材料的高性能催化剂和新型催化反应
- 3、燃料电池用电极材料
- 4、纳米氧化物（如 ZnO）的制备、结构、性能与应用
- 5、煤炭和生物质的高效洁净转化基础研究及相关技术

※ 主要成果

在国内发表刊物论文 400 余篇，其中 260 余篇发表在 Nature Communications, Adv. Mater., Adv. Funct. Mater., Adv. Energy Mater., ChemComm, Chem. Mater., J. Mater. Chem., Carbon 等国际学术刊物上(IF>6 论文 80 余篇；18 篇论文被选为国际学术刊物

的封面), 发表论文被 SCI 他引 4000 余次; 申请及授权发明专利 50 余项。荣获 2 项教育部自然科学一等奖、辽宁省青年科技奖、高等学校优秀骨干教师等奖励和表彰 10 余次。

代表性成果:

[1] Ling Zheng, Wang Zhiyu, Zhang Mengdi, Yu Chang, Wang Gang, Dong Yanfeng, Liu Shaohong, Wang Yuwei, Qiu Jieshan. Sustainable synthesis and assembly of biomass-derived B/N co-doped carbon nanosheets with ultrahigh aspect ratio for high performance supercapacitors, *Advanced Functional Materials*, 2015, DOI: 10.1002/adfm.201504004. (highlighted as the front cover)

[2] Zhao Changtai, Yu Chang, Liu Shaohong, Yang Juan, Fan Xiaoming, Huang Huawei, Qiu Jieshan. 3D porous N-doped graphene frameworks made of interconnected nanocages for ultrahigh-rate and long-life Li-O₂ batteries, *Advanced Functional Materials*, 2015, in press.

[3] Wang Huanjing, Zhi Lei, Liu Kaiqiang, Dang Liqin, Liu Zonghuai, Lei Zhibin, Yu Chang, Qiu Jieshan. Thin-sheet carbon nanomesh with an excellent electrocapacitive performance, *Advanced Functional Materials*, 2015, 25, 5420–5427. (highlighted as the inside front cover)

[4] Yang Juan, Yu Chang, Fan Xiaoming, Zhao Changtai, Qiu Jieshan. Ultrafast self-assembly of graphene oxide-induced monolithic nico-carbonate hydroxide nanowire architectures with a superior volumetric capacitance for supercapacitors, *Advanced Functional Materials* 2015, 25, 2109-2116. (highlighted as the inside front cover)

- [5] Meng Xiangtong, Yu Chang, Song Xuedan, Liu Yang, Liang Suxia, Liu Zhiqiang, Hao Ce, Qiu Jieshan. Nitrogen-doped Graphene Nanoribbons with Surface Enriched Active Sites and Enhanced Performance for Dye-sensitized Solar Cells, *Advanced Energy Materials* 2015, DOI: 10.1002/aenm.201500180. (highlighted as the inside front cover)
- [6] Liu Shaohong, Dong Yanfeng, Zhao Changtai, Zhao Zongbin, Yu Chang, Wang Zhiyu, Qiu Jieshan. Nitrogen-rich carbon coupled multifunctional metal oxide/graphene nanohybrids for long-life lithium storage and efficient oxygen reduction, *Nano Energy* 2015, 12, 578-587.
- [7] Fan Xiaoming, Yu Chang, Yang Juan, Ling Zheng, Hu Chao, Zhang Mengdi, Qiu Jieshan. A Layered-Nanospace-Confinement Strategy for the Synthesis of Two-Dimensional Porous Carbon Nanosheets for High-Rate Performance Supercapacitors, *Advanced Energy Materials* 2015, DOI: 10.1002/aenm.201570035. (highlighted as the front cover)
- [8] Cai Bing, Zhang Wen-Hua, Qiu Jieshan. Solvent engineering of spin-coating solutions for planar-structured high-efficiency perovskite solar cells, *Chinese Journal of Catalysis*, 2015, 36, 1183-1190.
- [9] Cai Bing, Zhong Dong, Yang Zhou, Huang Baokun, Miao Shu, Zhang Wen-Hua, Qiu Jieshan, Li Can. An acid-free medium growth of rutile TiO₂ nanorods arrays and their application in perovskite solar cells, *Journal of Materials Chemistry C*, 2015, 3, 729-733.
- [10] Chen Meng, Yu Chang, Liu Shaohong, Fan Xiaoming, Zhao Changtai, Zhang Xu, Qiu Jieshan. Micro-sized porous carbon spheres with ultra-high rate capability for lithium storage, *Nanoscale*, 2015, 7, 1791-1795.

- [11] Dong Qiang, Wang Gang, Wu Tingting, Peng Senpei, Qiu Jieshan. Enhancing capacitive deionization performance of electrospun activated carbon nanofibers by coupling with carbon nanotubes, *Journal of Colloid and Interface Science*, 2015, 446, 373-378.
- [12] Dong Yanfeng, Liu Shaohong, Wang Zhiyu, Liu Yang, Zhao Zongbin, Qiu Jieshan. Sulfur-infiltrated graphene-backboned mesoporous carbon nanosheets with a conductive polymer coating for long-life lithium-sulfur batteries, *Nanoscale*, 2015, 7, 7569-7573.
- [13] Dong Yanfeng, Liu Shaohong, Wang Zhiyu, Liu Yang, Zhao Zongbin, Qiu Jieshan. Compressible graphene aerogel supported CoO nanostructures as a binder-free electrode for high-performance lithium-ion batteries, *Rsc Advances*, 2015, 5, 8929-8932.
- [14] Dong Yanfeng, Zhao Zongbin, Wang Zhiyu, Liu Yang, Wang Xuzhen, Qiu Jieshan. Dually Fixed SnO₂ Nanoparticles on Graphene Nanosheets by Polyaniline Coating for Superior Lithium Storage, *Acs Applied Materials & Interfaces*, 2015, 7, 2444-2451.
- [15] Hao Qingli, Xia Xifeng, Lei Wu, Wang Wenjuan, Qiu Jieshan. Facile synthesis of sandwich-like polyaniline/boron-doped graphene nano hybrid for supercapacitors, *Carbon*, 2015, 81, 552-563.

在研科研项目：

1. NSFC-辽宁联合基金重点项目：《煤焦油/煤沥青绿色化高附加值利用的新方法研究》(No.U1508201,2016.01-2019.12)
2. 国家自然科学基金委员会(NSFC)与香港研究资助局(RGC)共同资助合作研究项目：《基于多级孔道金属氧化物和碳气凝胶

创制多功能空气净化用新材料的研究》
(No.21361162004,2014.01-2017.12)

3.国家自然科学基金重点项目:《新结构高性能多尺度复合炭素材料的设计、合成及其海水淡化性能研究》
(No.21336001,2014.01-2018.12)

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