

<u>基本信息</u>	
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职务	
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系/研究所	化学工程系/化学电源与绿色催化研究所
	
<u>教育背景</u>	
2000.09-2003.08	天津大学，化学工程专业，工学博士
1998.08-2001.03	天津大学，化学工程专业，工学硕士
1994.09-1998.07	河北大学，化学专业，理学学士
<u>工作履历</u>	
2005.12-至今	北京理工大学化学与化工学院，副教授
2017.11-2018.11	加州大学戴维斯分校，访问学者
2004.01-2005.12	清华大学，化学工程系，博士后
<u>研究方向</u>	
1.	绿色合成过程与工艺
2.	新型催化剂设计与制备
3.	能源化工
<u>荣誉奖励</u>	
1.	《催化作用原理》获得北京理工大学研究生精品课程
2.	《催化作用原理》课程被认定为研究生课程思政示范课
<u>承担项目</u>	
1.	温敏型双亲性离子液体酸碱催化剂催化制备生物柴油的研究，国家自然

	科学基金青年基金资助项目，主持
2.	离子液体聚合物整体柱的合成及其在染料敏化太阳能电池中的光电性能研究，校研究项目，主持
3.	太阳能电动车能量控制器，横向项目，主持
4.	3-4mil 阻焊桥专用液态感光阻焊黑油的研发，江门市产学研项目，主持
5.	离子液体催化制备生物柴油的研究，横向项目，主持
6.	温控聚醚型酸性离子液体及其催化制备生物柴油的研究，北京理工大学优秀青年教师资助计划，主持
7.	船舶生活污水臭气净化技术开发，横向项目，主持
8.	新型磁性负载离子液体聚合物刷水相催化三组分一锅反应合成 4H-吡喃类杂环化合物，国家自然科学基金资助项目，参与
9.	磁性介孔结构型超细粒子负载离子液体催化制备生物柴油研究，国家自然科学基金资助项目，参与
10.	可控核壳型磁性纳米复合光催化材料基础研究，国家自然科学基金资助项目，参与
11.	离子液体媒介气相扩散法制备中空结构纳微吸波材料研究，国家自然科学基金资助项目，参与
12.	选择性渗透 VOCs 的化工分离新膜材料多层次微结构设计性能调控制备，国家自然科学基金重点项目，参与
13.	4000 吨/年对叔丁基苯甲酸连续化生产技术开发，横向项目，参与

### 研究成果

主持国家自然科学基金项目 1 项、北京理工大学优秀青年教师资助计划 1 项，江门市产学研项目 1 项，企业合作等项目 8 项；参与国家自然科学基金项目 5 项，世界银行援助项目 1 项，企业合作项目 10 余项。迄今在国内外学术刊物及会议上发表学术论文 60 余篇，其中 SCI 收录 40 余篇，获授权发明专利 3 项。

### 代表性论文

1.	Shi Quan, Wu Qin*, Li Hansheng*, Shi Daxin, Zhao Yun, Jiao Qingze. Enhanced catalytic performance of UiO-66 via a sulfuric acid post-synthetic modification strategy with partial etching. Applied Catalysis A, General, 2020, 602: 117733
2.	Tong Wang, Yongjian Li, Hansheng Li*, Daxin Shi, Qingze Jiao, Yun Zhao, Pengju Su, Wei Wang, and Qin Wu*. Rational Design of Hierarchical

	Structural CoSe@NPC/CoSe@CNT Nanocomposites Derived from Metal–Organic Frameworks as a Robust Pt-free Electrocatalyst for Dye-Sensitized Solar Cells. ACS Omega, 2020, 5(40): 26253–26261
3.	Li Yongjian, Liu Xiufeng, Li Hansheng*, Shi Daxin, Jiao Qingze, Zhao Yun, Feng Caihong, Bai Xiaoping, Wang Hongxia, Wu Qin*. Rational design of metal organic framework derived hierarchical structural nitrogen doped porous carbon coated CoSe/nitrogen doped carbon nanotubes composites as a robust Pt-free electrocatalyst for dye-sensitized solar cells. Journal of Power Sources, 2019, 422: 122-130
4.	Hu Ju, Li Hansheng, Muhammad Sohail, Wu Qin*, Zhao Yun, Jiao Qingze. Surfactant-assisted hydrothermal synthesis of TiO <sub>2</sub> /reduced graphene oxide nanocomposites and their photocatalytic performances. JOURNAL OF SOLID STATE CHEMISTRY, 2017, 253: 113-120
5.	Sun Jiahan, Li Hansheng, Song Haoran, Wu Qin*, Zhao Yun, Jiao Qingze. Synthesis of methylal from methanol and formaldehyde catalyzed by Brønsted acid ionic liquids with different alkyl groups. RSC Advances, 2015, 5, 87200-87205
6.	Qin Wu, Weijiao Li, Min Wang, Yu Hao, Tonghua Chu, Jiqing Shang, Hansheng Li*, Yun Zhao, Qingze Jiao. Synthesis of polyoxymethylene dimethyl ethers from methylal and trioxane catalyzed by Brønsted acid ionic liquids with different alkyl groups. RSC Advances, 2015, 5, 57968-57974
7.	Hu Ju, Li Hansheng, Wu Qin*, Zhao Yun, Jiao Qingze. Synthesis of TiO <sub>2</sub> nanowire/reduced graphene oxide nanocomposites and their photocatalytic performances. Chemical Engineering Journal, 2015, 263: 144-150
8.	Ding Libing, Li Hansheng, Zhang Yaping, Zhang Kun, Yuan Hong, Wu Qin*, Zhao Yun, Jiao Qinze, Shi Daxin. Basic polymerized imidazolidine-based ionic liquid: An efficient catalyst for aqueous Knoevenagel condensation. RSC Advances, 2015,5: 21415-21421
9.	Wu Qin, Wang Min, Hao Yu, Li Hansheng*, Zhao Yun, Jiao Qingze. Synthesis of Polyoxymethylene Dimethyl Ethers Catalyzed by Bronsted Acid Ionic Liquids with Alkanesulfonic Acid Groups. Industrial & Engineering Chemistry Research, 2014, 53(42): 16254-16260
10.	Bin Zhen, Weiqiu Chen, Zekun Jia, Minghan Han*, Qin Wu*. Continuous Hydrogenation of Monovinylacetylene for 1,3-Butadiene Production Catalyzed by Ionic Liquid Stabilized Pd Nanoparticles. CATALYSIS LETTERS, 2014, 144(12): 2216-2220
11.	Wu Qin, Wan Hualin, Li Hansheng*, Song Haoran, Chu Tonghua. Bifunctional temperature-sensitive amphiphilic acidic ionic liquids for preparation of biodiesel. Catalysis Today, 2013, 200: 74-79
12.	Jing Lin, Wang Min, Li Xinyuan, Xiao Ruoyun, Zhao Yufei, Zhang Yuxia, Yan Yi-Ming*, Wu Qin*, Sun Kening*. APPLIED CATALYSIS B-ENVIRONMENTAL, 2015, 166: 270-276
13.	Wu Qin, Chen He, Han Minghan, Wang Dezheng, Wang Jinfu. Transesterification of Cottonseed oil catalyzed by bronsted acidic ionic

	liquids. Industrial & Engineering Chemistry Research, 2007, 46(24):7955-7960
14.	Han Minghan, Yi Wulang, Wu Qin, Liu Ying, Hong Yongchun, Wang Dezheng. Preparation of biodiesel from waste oils catalyzed by a Bronsted acidic ionic liquid. BIORESOURCE TECHNOLOGY, 2009, 100(7): 2308-2310
15.	Xin Hongliang, Wu Qin, Han Minghan, Wang Dezheng, Jin Yong. Alkylation of benzene with 1-dodecene in ionic liquids [Rmim] <sup>+</sup> Al <sub>2</sub> Cl <sub>6</sub> X <sup>-</sup> (R = butyl, octyl and dodecyl; X = chlorine, bromine and iodine). Applied Catalysis A: general, 2005, 292(1-2): 354-361
16.	Wu Qin, Zhou Li, Zhou Yaping, Wu Jiaquan. Prediction of the adsorption equilibrium of mixtures composed of supercritical gases. Journal of Colloid and Interface Science, 2004, 276(2): 277-283
17.	Wu Qin, Zhou Li, Wu Jiaquan, Zhou Yaping. Adsorption equilibrium of the mixture CH <sub>4</sub> +N <sub>2</sub> +H <sub>2</sub> on activated carbon. Journal of Chemical and Engineering Data, 2005, 50(2): 635-642