

基本信息

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职务		
职称	长聘副教授	
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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	

教育背景

1999.09-2002.06	北京化工大学，应用化学专业，工学博士
1990.09-1993.06	北京化工大学，高分子材料专业，工学硕士
1986.09-1990.07	北京化工大学，高分子化工专业，工学学士

工作经历

2017.01-至今	北京理工大学化学与化工学院，长聘副教授
2009.12-2010.11	英国 University of Oxford, 化学系，访问学者
2008.07-2008.12	美国 SOUTH DAKOTA School of Mines & Technology, 材料科学与工程系，访问学者
2004.06-2016.12	北京理工大学化工与环境学院，副教授
2002.09-2004.06	清华大学，材料科学与工程，博士后
1993.07-1999.07	中石化北京化工研究院，聚烯烃国家工程中心，工程师

研究方向

1.	无机功能材料
2.	高分子材料设计、合成及应用
3.	聚合物/无机纳米复合材料
4.	新型催化材料

荣誉奖励

1.	原位插层改性制备高性能 PET 柔性扁平线缆 (FFC) 热封膜, 江门市科学技术奖, 二等奖, 2015.01
2.	N 催化剂新产品牌号开发及工业应用, 中国石油化工集团有限公司, 科学技术进步奖, 二等奖, 1998.02
承担项目	
1.	抗沾污轻量化家电彩涂板的研发及产业化, 珠海市产业核心和关键技术攻关方向项目, 2019.01-2021.12; 200 万元 (北理 60 万); 主持
2.	低挥发型低摩擦系数聚氨酯超微细漆包线的开发, 珠海市产业核心和关键技术攻关方向项目(201821048001), 2018.01-2020.12; 200 万元 (北理 60 万); 主持
3.	氧化镁悬浮脱酸液制备, 国家图书馆委托项目 (20161041006), 2016.01-2016.12; 45 万元; 主持
4.	原位催化制备碳纳米管/介孔中空铁氧体复合电磁屏蔽材料, 国家自然科学基金资助项目(21376029), 2014.01—2017.12; 80 万元; 主持
5.	石墨烯/纳米铁氧体基轻质宽频高性能水性电磁屏蔽涂料开发研究, 广东省省部产学研合作专项资金项目(2013B090500077), 2014.01-2016.12; 50 万元 (北理 25 万); 主持
6.	有机无机复合无卤阻燃胶粘产品研发专题(科技特派员工作站), 广东省省级科技计划项目(2014A090906022), 2014.12.15—2017.12.14; 25 万元; 主持
7.	含氟聚醚醚酮耐高温漆包线技术开发, 珠海市科技计划项目 (珠海市产学研合作专项资金)(2012D0501990001), 2012.01-2013.12; 50 万元(北理 20 万); 主持
8.	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(21071017), 2011.01-2013.12; 35 万元; 参与
9.	铁氧体纳米管/掺杂碳纳米管高性能复合电磁屏蔽材料研究, 北京市自然科学基金(2092026), 2009.01-2011.12; 12 万元; 主持
10.	ABS/铁氧体纳米管-掺杂碳纳米管高性能复合电磁屏蔽材料研究, 国家高技术研究计划 (863 计划) (2006AA03Z570), 2006.12-2009.11; 96 万元; 第二负责人
研究成果	
<p>一直从事无机功能材料、高分子材料及复合材料设计、制备及应用研究。主持国家自然科学基金项目 1 项、作为第二负责人主持 863 计划项目 1 项, 承担企业合作项目 6 项; 参与国家自然科学基金、国家“十一五”科技支撑计划、</p>	

<p>和中石化多项大型项目。迄今在国内外学术刊物发表学术论文 111 篇，SCI 收录 82 篇，其中近几年发表 ESI 高被引论文 3 篇，获授权国内外发明专利 18 项。</p>	
1.	<p>开发了碳纳米管、石墨烯等碳材料与铁氧体的复合技术，展示了优异的宽频吸波性能，相关研究成果发表在 <i>Journal of Materials Chemistry A</i> 等期刊，并且为 ESI 高被引论文。</p>
2.	<p>从材料用途出发，设计并合成特定结构和分子量的漆包线漆关键组分--连接料，制备耐高温漆包线漆、柔性漆包线漆及低摩擦系数漆包线漆。发明专利：赵芸，翟洪涛，矫庆泽，黎汉生，基于含氟聚芳醚酮共聚改性聚酰亚胺的耐高温漆包线漆组合物及其制备方法, ZL 201610121603.6 2018.06.15</p>
3.	<p>开发了石墨烯/纳米铁氧体复合材料为填料的水性丙烯酸树脂电磁屏蔽涂料技术。 发明专利：赵芸，王燕枫，矫庆泽. 石墨烯/纳米铁氧体基水性电磁屏蔽涂料及其制备方法, ZL 201510644047.6 2017.10.10</p>
4.	<p>开发了聚合物微粉化技术，可用于制备油墨涂料助剂及 3D 打印材料。 发明专利：赵芸，矫庆泽，问立宁，金玉州，徐超，球形聚乙烯微粉蜡的乳液制备方法, ZL 200610083464.9, 2008.10.22</p>
5.	<p>开发了烯烃聚合催化剂，用于乙烯、丙烯等烯烃的均聚和共聚。 发明专利：Aichun Yang, Zhulan Li, Yun Zhao et al. Catalyst for the polymerization of propylene and its use. US 6376417B1, 2002.4.23</p>
<p>代表性论文</p>	
1.	<p>Shanshan Wang, Yingchun Xu, Ruru Fu, Huanhuan Zhu, Qingze Jiao, Tongying Feng, Caihong Feng, Daxin Shi, Hansheng Li and Yun Zhao*. Rational Construction of Hierarchically Porous Fe-Co/N- doped carbon/rGO Composites for Broadband Microwave Absorption, <i>Nano-Micro Letters</i>, 2019, 11:76</p>
2.	<p>Song Yue, Shanshan Wang, Qingze Jiao, Xueting Feng, Kun Zhan, Yiqing Dai, Caihong Feng, Hansheng Li, Tongying Feng, and Yun Zhao*. Preparation of yolk-shell-structured $\text{Co}_x\text{Fe}_{1-x}\text{P}$ with enhanced OER performance, <i>ChemSusChem</i>, 2019, 12: 4461 – 4470</p>
3.	<p>Shanshan Wang, Qingze Jiao, Xiufeng Liu, Yingchun Xu, Quan Shi, Song Yue, Yun Zhao*, Hongbo Liu, Caihong Feng, and Daxin Shi*. Controllable Synthesis of $\gamma\text{-Fe}_2\text{O}_3$ Nanotube/Porous rGO Composites and Their Enhanced Microwave Absorption Properties, <i>ACS Sustainable Chemistry & Engineering</i>, 2019, 7 (7): 7004–7013</p>
4.	<p>Meimei Gao, Yun Zhao*, Shanshan Wang, Yingchun Xu, Caihong Feng, Daxin Shi and Qingze Jiao*. Preparation of pod-like 3D</p>

	Ni _{0.33} Co _{0.67} Fe ₂ O ₄ @rGO composites and their microwave absorbing properties, <i>Ceramics International</i> , 2019, 45(6): 7188–7195
5.	Wang Xinhua, Jiao Qingze, Gao Meimei, Feng Caihong, Li Hansheng, Zhao Yun*, Xiang Aimin. Controllable preparation of polyamide 12@SiO ₂ composite powders. <i>Polymer Composites</i> , 2019, 40(3):1251–1257
6.	Shanshan Wang, Yun Zhao,* Meimei Gao, Haoliang Xue, Yingchun Xu, Caihong Feng, Daxin Shi, Kaihui Liu, and Qingze Jiao*. Green Synthesis of Porous Cocoon-like rGO for Enhanced Microwave-Absorbing Performances, <i>ACS Applied Materials & Interfaces</i> , 2018, 10(49): 42865–42874
7.	Jinhuan Wang, Xiaozhi Xu, Ruixi Qiao, Jing Liang, Can Liu, Bohao Zheng, Lei Liu, Peng Gao, Qingze Jiao, Dapeng Yu, Yun Zhao*, and Kaihui Liu*. Visualizing grain boundaries in monolayer MoSe ₂ using mild H ₂ O vapor etching, <i>Nano Research</i> , 2018, 11(8): 4082- 4089
8.	Haoliang Xue, Jie Wang, Shanshan Wang, Sohail Muhammad, Caihong Feng, Qin Wu, Hansheng Li, Daxin Shi, Qingze Jiao* and Yun Zhao*. Core–shell MoS ₂ @graphene composite microspheres as stable anodes for Li-ion batteries, <i>New Journal of Chemistry</i> , 2018, 42: 15340 - 15345
9.	Shanshan Wang, Yun Zhao*, Haoliang Xue, Junrui Xie, Caihong Feng, Hansheng Li, Daxin Shi, Sohail Muhammad, Qingze Jiao*. Preparation of flower-like CoFe ₂ O ₄ @graphene composites and their microwave absorbing properties, <i>Materials Letters</i> , 2018, 223: 186-189
10.	Zhuangzhang He, Qingze Jiao, Zhuqing Fang, Taotao Li, Caihong Feng, Hansheng Li, Yun Zhao*. Light olefin production from catalytic pyrolysis of waste tires using nano-HZSM-5/γ-Al ₂ O ₃ catalysts. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 129: 66-71
11.	Muhammad Sohail, Haoliang Xue, Qingze Jiao, Hansheng Li, Khakemin Khanc, Shanshan Wang, Caihong Feng, Yun Zhao*. Synthesis of well-dispersed TiO ₂ /CNTs@CoFe ₂ O ₄ nanocomposites and their photocatalytic properties. <i>Materials Research Bulletin</i> , 2018, 101:83-89
12.	Muhammad Sohail, Haoliang Xue, Qingze Jiao, Hansheng Li, Khakemin Khan, Shanshan Wang, Yun Zhao*. Synthesis of well-dispersed TiO ₂ @reduced graphene oxide (rGO) nanocomposites and their photocatalytic properties, <i>Materials Research Bulletin</i> , 2017, 90: 125-130 ESI 高被引
13.	Shenli Zhang, Zhengwu Qi, Yun Zhao*, Qingze Jiao, Xiang Ni, Yajiao Wang, Yuan Chang, Chang Ding. Core/shell structured composites of hollow spherical CoFe ₂ O ₄ and CNTs as absorbing materials, <i>Journal of Alloys and Compounds</i> , 2017, 694: 309-312
14.	Xiang Ni, Zhuangzhang He, Xi Liu, Qingze Jiao, Hansheng Li, Caihong Feng, Yun Zhao*. Ionic liquid-assisted solvothermal synthesis of hollow CoFe ₂ O ₄ microspheres and their absorbing performances. <i>Materials Letters</i> , 2017, 193: 232-235
15.	Caihong Feng, Xianpu Meng, Xiaolu Song, Xueting Feng, Yun Zhao* and Gao Liu*. Controllable synthesis of hierarchical CuS/ZnS hetero-nanowires

	as high-performance visiblelight photocatalysts, RSC Advances, 2016, 6: 110266- 110273
16.	Shenli Zhang, Qingze Jiao, Chaoxiang Wang, Hui Yu, Yun Zhao*, Hansheng Li, Qin Wu. In situ synthesis of Mg/Fe LDO/carbon nanohelix composites as absorbing materials, Journal of Alloys and Compounds, 2016, 658: 505-512
17.	Shenli Zhang, Qingze Jiao, Ju Hu, Jingjing Li, Yun Zhao, * Hansheng Li, Qin Wu. Vapor diffusion synthesis of rugby-shaped CoFe ₂ O ₄ /graphene composites as absorbing materials, Journal of Alloys and Compounds, 2015, 630: 195–201
18.	Shenli Zhang, Qingze Jiao, Yun Zhao,* Hansheng Li and Qin Wu. Preparation of rugby-shaped CoFe ₂ O ₄ and their microwave absorbing properties, Journal of Materials Chemistry A, 2014, 2 (42): 18033 – 18039
19.	Min Fu, Qingze Jiao and Yun Zhao*. One-step vapor diffusion synthesis of uniform CdS quantum dots/reduced graphene oxide composites as efficient visible-light photocatalysts, RSC Advances, 2014, 4: 23242–23250
20.	Jinhuan Wang, Qingze Jiao, Hansheng Li, Yun Zhao.* In situ preparation of polyimide/amino-functionalized carbon nanotube composites and their properties. Polymer Composites. 2014, 35(10):1952-1959
21.	Min Fu, Qingze Jiao, Yun Zhao* and Hansheng Li. Vapor diffusion synthesis of CoFe ₂ O ₄ hollow sphere/graphene composites as absorbing Materials, Journal of Materials Chemistry A, 2014, 2 (3):735 – 744 ESI 高被引
22.	Min Fu, Qingze Jiao and Yun Zhao*. Preparation of NiFe ₂ O ₄ nanorod–graphene composites via an ionic liquid assisted one-step hydrothermal approach and their microwave absorbing properties, Journal of Materials Chemistry A, 2013, 1 (18): 5577 – 5586 ESI 高被引
23.	Qingze Jiao, Liang Hao, Qingyan Shao, Yun Zhao*. In situ synthesis of iron-filled nitrogen-doped carbon nanotubes and their magnetic properties, Carbon, 2013, 61: 647-649
24.	Yun Zhao, Clive Eley, Jingping Hu, John S Foord, Lin Ye, Heyong He, and Shik Chi Edman Tsang. Shape-Dependent Acidity and Photocatalytic Activity of Nb ₂ O ₅ Nanocrystals with an Active TT (001) Surface, Angewandte Chemie International Edition, 2012, 51(16): 3846 –3849
25	Yun Zhao, Qingze Jiao, Chunhua Li, Ji Liang. Catalytic synthesis of carbon nanostructures using layered double hydroxides as catalyst precursors, Carbon, 2007, 45(11): 2159–2163