
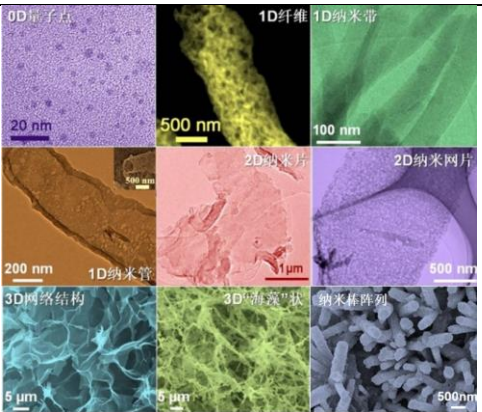
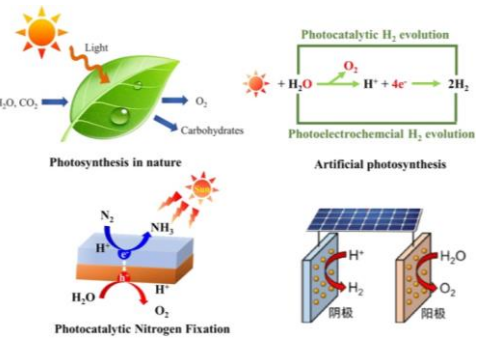


基本信息	
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教育背景	
2013.09-2017.06	北京理工大学，化学专业，博士
工作经历	
2017.07-至今	北京理工大学化学与化工学院，副研究员
2019.03-2020.03	英国伦敦大学学院，访问学者
研究方向	
1.	<p>先进碳纳米材料的控制合成</p> <p>通过气相、液相、固相三种途径，开发了多种合成多尺度结构材料的普适方法，实现了新一代碳基纳微结构材料的可控制备：(1) 通过控制分子自组装过程，实现了对碳基材料形貌和微结构的有效控制；(2) 将原位生长技术与限域组装相结合，在碳基表界面异质纳微结构控制方面取得了突破进展。</p> 
2.	<p>能源转化材料与器件</p> <p>能源危机和环境污染是当今世界面临的两大难题，探索可以提高能源利用效率和绿色可再生的能源技术是解决能源和环境问题的重要途径。新材料的发展、结构优化及其器件化成为推动这些新技术发展到使用的关键。本研究室主要从事先进碳纳米材料的设计与性能的构效关系研究，在太阳能化学利用、电化学传感器等方面取得了突破性进展。</p> 
荣誉奖励	
1.	<i>Nano-Micro Letters</i> 杰出青年科学家奖 (2018)

2	北京市优秀毕业生、北京理工大学优秀博士毕业论文（2017）
3	<i>Chinese Chemical Letters</i> 优秀审稿贡献奖（2020）
研究成果	
<p>主持国家自然科学基金项目 2 项、北京市自然科学基金项目 1 项、北京理工大学创新人才专项 1 项。迄今在 <i>Adv. Mater.</i>, <i>Angew. Chem. Int. Ed.</i>, <i>Nat. Commun.</i> 等国际知名期刊发表 SCI 学术论文 40 余篇，其中以第一或通讯作者发表 SCI 论文 25 篇，影响因子 10.0 以上 14 篇，5.0 以上 22 篇，他引 2000 余次。ESI 高被引论文 2 篇，ESI 1% 热点论文 1 篇，<i>Angew. Chem.</i> 等 VIP 论文 3 篇，单篇引用次数超过 100 次共 7 篇（其中单篇最高引用 580 余次）。</p>	
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3	Q. Han , B. Wang, Y. Zhao, C. G. Hu, L. T. Qu*. A Graphitic-C ₃ N ₄ “Seaweed” Architecture for Enhanced Hydrogen Evolution. <i>Angew. Chem. Int. Ed.</i> 2015, 54, 11433–11437. (IF: 12.959)
4	Q. Han* , Z. H. Cheng, B. Wang, H. M. Zhang, L. T. Qu*. Significant Enhancement of Visible-Light-Driven Hydrogen Evolution by Structure Regulation of Carbon Nitrides. <i>ACS Nano</i> 2018, 12, 5221–5227. (IF: 14.588)
5	Q. Han , B. Wang, J. Gao, Z. H. Cheng, L. T. Qu*. Atomically Thin Mesoporous Nanomesh of Graphitic-C ₃ N ₄ for High-Efficiency Photocatalytic Hydrogen Evolution. <i>ACS Nano</i> 2016, 10, 2745–2751. (IF: 14.588)
6	Q. Han , Z. H. Cheng, J. Gao, Y. Zhao, L. M. Dai, L. T. Qu*. Mesh-on-Mesh Graphitic-C ₃ N ₄ @Graphene for Highly Efficient Hydrogen Evolution. <i>Adv. Funct. Mater.</i> 2017, 27, 1606352. (IF: 16.836)
7	Z. F. Zhang, C. T. Qiu, Q. Han , K. P. Loh, C. L. Su*, Semiconductor Photocatalysis to Engineering Deuterated N-alkyl Pharmaceuticals Enabled by Synergistic Activation of Water and Alkanols, <i>Nat. Commun.</i> 2020, 11, 4722. (IF: 12.121)
8	B. Lu, X. T. Jin, Q. Han* , L. T. Qu*, Planar Graphene-based Micro-supercapacitors. <i>Small</i> 2021, 2006827. (IF: 11.459)
9	C. B. Wu, G. H. Yu, Y. Yin, Z. Y. Wang, L. Chen, Q. Han* , J. W. Tang, B. Wang*. Mesoporous Polymeric Cyanamide-Triazole-Heptazine Photocatalysts for Highly-Efficient Water Splitting. <i>Small</i> 2020, 2003162. (IF: 11.459)
10	Y. Liang, F. Liu, Z. H. Cheng, Q. Han* , H. B. Shao,* L. T. Qu*. A Cut-Resistant and Highly Restorable Graphene Foam. <i>Small</i> 2018, 1801916. (IF: 11.459)

11	T. Xu, Q. Han* , Z. H. Cheng, J. Zhang, L. T. Qu*. Interactions between Graphene-Based Materials and Water Molecules toward Actuator and Electricity-Generator Applications. <i>Small Methods</i> 2018, 1800108. (IF: 12.130)
12	Q. Han* , N. Chen, J. Zhang, L. T. Qu*. Graphene/Graphitic Carbon Nitride Hybrids for Catalysis. <i>Mater. Horiz.</i> 2017, 4, 832–850. (IF: 12.319)
13	Y. Yin, C. Wu, G. Yu, H. Z. Wang, Q. Han* , L. T. Qu. A Hierarchical Heterojunction Polymer Aerogel for Accelerating Charge Transfer and Separation. 2021, <i>J. Mater. Chem. A</i> 2021, doi:10.1039/d1ta00289a. (IF: 11.301)
14	Q. Han , C. G. Hu, F. Zhao, Y. Zhao, Z. P. Zhang, L. T. Qu*. One-Step Preparation of Iodine-Doped Graphitic Carbon Nitride Nanosheets as Efficient Photocatalysts for Visible Light Water Splitting. <i>J. Mater. Chem. A</i> 2015, 3, 4612–4619. (IF: 11.301)
15	C. Y. Xu [#] , Q. Han[#] (co-first author). Y. Zhao, L. T. Qu*. Sulfur-Doped Graphitic Carbon Nitride Decorated with Graphene Quantum Dots for an Efficient Metal-Free Electrocatalyst. <i>J. Mater. Chem. A</i> 2015, 3, 1841–1846. (IF: 11.301)
16	C.Y. Xu [#] , Q. Han[#] (co-first author). Y. Zhao, L. T. Qu*. Sulfur-Doped Graphitic Carbon Nitride Decorated with Graphene Quantum Dots for an Efficient Metal-Free Electrocatalyst. <i>J. Mater. Chem. A</i> 2015, 3, 1841–1846. (IF: 11.301)
17	L. Chen, Y. Z. Wang, C. B. Wu, G. H. Yu, C. L. Su, J. J. Xie, Q. Han* , L. T. Qu, Synergistic Oxygen Substitution and Heterostructure Construction in Polymeric Semiconductors for Efficient Water Splitting. <i>Nanoscale</i> 2020, 12, 13484–13490. (IF: 6.895)
18	Y. Z. Wang, R. Y. Xu, L. W. Chen, C. B. Wu, L. Qiu, C. D. Windle, Q. Han* , L. T. Qu, Hierarchical ZnO@Hybrid Carbon Core-Shell Nanowire Array on a Graphene Fiber Microelectrode for Ultrasensitive Detection of 2,4,6-Trinitrotoluene. <i>ACS Appl. Mater. Interfaces</i> 2020, 12, 8547–8554. (IF: 8.758)
19	J. X. Bai, B. Lu, Q. Han* , Q. S. Li,* L. T. Qu*. (111) Facets-Oriented Au-Decorated Carbon Nitride Nanoplatelets for Visible-Light-Driven Overall Water Splitting. <i>ACS Appl. Mater. Interfaces</i> 2018, 38066. (IF: 8.758)
20	L. Chen, X. Ding, J. Zeng, C. Wu, Q. Han* , L. T. Qu. A Three-Dimensional Hollow Graphene Fiber Microelectrode with Shrink-Effect-Enabled Enzyme Immobilization for Sensor Applications. <i>Sci. Bull.</i> 2019, 54, 718–722. (IF: 9.511)
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24	X.W. Nie, B. X. Ji, N. Chen*, Q. Han , L. T. Qu*, Gradient Doped Polymer Nanowire for Moistelectric Nanogenerator. <i>Nano Energy</i> 2018, 46, 297–304. (IF: 16.602)