

Associate Professor HOU Jianhua

College	College of Environmental Science & Engineering
Current Position	Associate Professor
Types of Tutor	Doctoral Tutor
Language	Chinese/English
Education	09/2011~07/2015: Ph.D. in Materials Science and Engineering, Beijing Institute of Technology
Research Interests	<ol style="list-style-type: none">1. Development and application of environmental functional materials;2. The microscopic design of photocatalytic materials and degradation of pollutants.3. Advanced electrode materials for green energy conversion and storage applications.
Selected Publications	<ol style="list-style-type: none">1. Jianhua Hou, Chuanbao Cao*, Faryal Idrees, and Xilan Ma, Hierarchical Porous Nitrogen-Doped Carbon Nanosheets Derived from Silk for Ultrahigh-Capacity Battery Anodes and Supercapacitors, <i>ACS Nano</i>. 2015, 9, 2556-2564 (美国化学会 (ACS) 新闻亮点报道, IF: 13.334, 高引用论文, ESI 前 0.1%, 热点论文, 被引用 700 余次, Article Views: 14287 Times 入选 2015 年工程技术领域中国作者发表的高被引研究论文 Top 5).2. Jianhua Hou, Chuanbao Cao*, Xilan Ma, Faryal Idrees, Bin Xu, Xin Hao and Wei Lin. From Rice Bran to High Energy Density Supercapacitors: A New Route to Control Porous Structure of 3D Carbon, <i>Scientific Reports</i>. 2014,4,7260-7265 (Nature 子刊, IF: 5.578, 被引用 100 余次).3. Jianhua Hou, Tai Cao , Faryal Idrees, Chuanbao Cao*, A co-sol-emulsion-gel synthesis of tunable and uniform hollow

	<p>carbon nanospheres with interconnected mesoporous structure. <i>Nanoscale</i>, 2016,8, 451-457 (SCI 一区, IF: 7.760, 被引用 35 余次).</p> <p>4. Jianhua Hou,* Kun Jiang, Rui Wei, Muhammad Tahir, Xiaoge Wu,* Ming Shen, Xiaozhi Wang, Chuanbao Cao*, Popcorn-Derived Porous Carbon Flakes with an Ultrahigh Specific Surface Area for Superior Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> 2017, 9, 30626-30634 (SCI 一区, IF: 8.097, 美国化学会 C&EN 报道, 中国科学报, 中国教育报, 扬州晚报, 被引用 75 余次).</p> <p>5. Jianhua Hou,* Kun Jiang, Muhammad Tahir, Xiaoge Wu, Faryal Idrees, Ming Shen, and Chuanbao Cao*, Tunable porous structure of carbon nanosheets derived from puffed rice for high energy density supercapacitors. <i>Journal of Power Sources</i> 2017, 371, 148-155 (SCI 一区, IF: 6.395, 被引用 30 余次)</p> <p>6. Jianhua Hou, Kun Jiang, Ming Shen*, Rui Wei, Xiaoge Wu, Faryal Idrees and Chuanbao Cao, Micro and nano hierarchical structures of BiOI/activated carbon for efficient visible-light-photocatalytic reactions. <i>Scientific Reports</i>. 2017, 7, 11665-11674. (IF: 4.578, 被引用 10 余次).</p> <p>7. Jianhua Hou* , Rui Wei, Xiaoge Wu,* , Muhammad Tahir, Xiaozhi Wang, Faheem K. Butt, Chuanbao Cao* , Lantern-like bismuth oxyhalides embedded typha-based carbon via in-situ self-template and ion exchange-recrystallization for high-performance photocatalysis. <i>Dalton Transactions</i> , 2018,47, 6692-6701, (IF: 4.099, Top 期刊, 封面论文).</p> <p>8. Weiqin Yin, Dian Dai, Jianhua Hou * , Shengsen Wang, Xiaoge Wu, Xiaozhi Wang* , Hierarchical porous biochar-based functional materials derived from biowaste for Pb(II) removal <i>Applied Surface Science</i>, 465 (2018) 297–302. (SCI 二区, Top 期刊, IF:</p>
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5.155)

9. **Jianhua Hou***, Dian Dai, Rui Wei Xiaoge Wu, Xiaozhi Wang *, Muhammad Tahir, and Ji-Jun Zou*, Narrowing Band Gap of BiOCl for the Hydroxyl Radicals Generation of Photocatalysis under Visible Light, ACS Sustainable Chemistry & Engineering, ACS Sustainable Chem. Eng.2019, 7,1916569-16576.(Top 期刊, IF: 6.97)
10. Ting Jiang, Jing Jin, **Jianhua Hou*** , Muhammad Tahir, Faryal Idrees, Bi₄O₅I₂/nitrogen-doped hierarchical carbon (NHC) composites with tremella-like structure for high photocatalytic performance , Chemosphere 229 (2019) 426-433 (SCI 二区, Top 期刊, IF: 5.108).
11. **Jianhua Hou*** , Ting Jiang, Rui Wei, Faryal Idrees and Detlef W. Bahnemann, Ultrathin-layer structure of BiOI microspheres decorated on N-doped biochar with efficient photocatalytic activity. **Frontiers in Chemistry**, 2019,7,378-387 (SCI 二区, Top 期刊, IF: 4.155。Front. Chem.).
12. Maryam Qasim, **Jianhua Hou***, M. A. Qadeer, Sajid Butt, M. Hassan Farooq, M. Qasim Farooq, Faryal Idrees, M. Tanveer, Jijun Zou* and Muhammad Tahir* , Nitrogen-Doped Carbon Nanosheets Decorated With Mn₂O₃ Nanoparticles for Excellent Oxygen Reduction Reaction , **Frontiers in Chemistry**, 2019,7, 741-746 (SCI 二区, Top 期刊, IF: 4.155。Front. Chem.). (07 November 2019 , doi: 10.3389/fchem.2019.00741)
13. Jianhua Hou *, Jian Tang, Ke Feng, Faryal Idrees, Muhammad Tahir, Xianbin Sun,* Xiaozhi Wang* , The chemical precipitation synthesis of nanorose-shaped Bi₄O₅I₂ with highly visible light photocatalytic performance. Materials Letters, 2019, 252, 106-109。 (SCI 三区 IF: 3.019).
14. **HOU Jian-Hua** CAI Rui SHEN Ming JIANG Kun , Preparation and visible light photocatalytic study of porous ultrathin

	<p>graphitic carbon nitride, Chinese Journal of Inorganic Chemistry, 2018,34, 467-474. 侯建华, 蔡瑞, 沈明, 蒋坤, 多孔纳米片状石墨相氮化碳的制备及其可见光催化, 无机化学学报 2018,34, 467-474. (SCI 四区, IF: 0.797).</p> <p>15. 一种超声-微波法制备具有开放结构的功能化介孔空心纳米碳球, ZL201610574730.1, 2018-12-04, 侯建华, 蒋坤, 阮雪静, 李想, 蒋铤, 沈明。(已授权)</p>
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