



师资力量

概况

教师名录

招贤纳士

教授

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陈浩

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陈浩, 中共党员, 男, 1963年10月出生, 华中农业大学二级岗教授, 博士生导师, 理学院院长。邮箱: hchenhao@mail.hzau.edu.cn。近五年, 以第一作者或通讯作者身份在《Nature Communications》、《Advanced Materials》、《Advanced Functional Materials》等国际知名学术期刊上发表SCI收录论文50余篇, 其中影响因子大于9.0的近20篇, ESI高被引论文3篇; 在《环境化学》、《食品科学》等CSCD期刊上发表研究论文10余篇。为华中农业大学化学学科及环境/生态学科ESI首次进入全球排名前1%重要贡献学者之一。在科学出版社和中国农业出版社主编出版《仪器分析》、《基础化学实验》等规划教材3部; 曾获华中农业大学教学成果一等奖、二等奖等教学研究奖项。担任《Advanced Functional Materials》、《Applied Catalysis B: Environmental》、《ACS Applied Materials & Interfaces》等多个国际学术期刊审稿人。已培养博士、硕士研究生40余人。培养的研究生中7人次获国家奖学金、2人获评湖北省优秀硕士学位论文、多人获评华中农业大学优秀博士或硕士学位论文等。

教育工作背景

- 1999.12-至今 讲师、副教授、教授, 华中农业大学理学院
- 2009.03-2014.04 华中农业大学期刊社社长, 《华中农业大学学报》副主编, 《华中农业大学学报(社会科学版)》执行主编
- 1988.07-1999.12 讲师, 武汉大学化学系
- 2003.09-2007.01 华中农业大学, 食品科学, 博士, 导师: 吴谋成教授
- 1985.09-1988.07 武汉大学, 分析化学, 硕士, 导师: 曾云鹏教授和汪祖成教授
- 1981.09-1985.07 武汉大学, 分析化学, 学士

研究领域

能源环境材料及光催化技术、环境与食品分析化学。长期从事能源与环境光催化和有害物质的分析和降解等领域的研究工作。

科研项目

1. 国家自然科学基金委员会, 面上项目, 52073110, 基于超分子自组装二维共价有机框架的构建及其光催化CO₂还原性能研究, 2021-01至2024-12, 58万元, 在研, 主持
2. 国家自然科学基金委员会, 面上项目, 51872107, 卤素诱导Aurivillius结构Bi基材料氧空位的可控构筑及其可见光再生行为机制研究, 2019-01至2022-12, 60万元, 在研, 主持
3. 国家自然科学基金委员会, 面上项目, 51572101, 助催化剂选择性负载钼酸盐基材料及其光催化降解农药药效关系, 2016-01至2019-12, 64万元, 结题, 主持

代表性论文

1. Shengyao Wang#, Xiao Hai#, Xing Ding#, Shangbin Jin#, Yonggang Xiang, Pei Wang, Bo Jiang, Fumihiko Ichihara, Mitsutake Oshikiri, Xianguang Meng, Yunxiang Li, Wakana Matsuda, Jun Ma, Shu Seki, Xuepeng Wang, Hao Huang, Yoshiki Wada, Hao Chen*, Jinhua Ye*. Intermolecular cascaded π-conjugation channels for electron delivery powering CO₂ photoreduction. Nature Communications, 2020, 11, 0-1149.
2. Dekang Huang, Yanzhu Luo, Shu Li, Li Liao, Yunxiang Li, Hao Chen*, Jinhua Ye*. Recent advances in tuning the electronic structures of atomically dispersed M-N-C materials for efficient gas-involving electrocatalysis. Materials Horizons, 2020, 7, 970-986.
3. Shengyao Wang*, Xing Ding#, Nan Yang#, Guangming Zhan, Xuehao Zhang, Guohui Dong, Lizhi Zhang, Hao Chen*. Insight into the effect of bromine on facet-dependent surface oxygen vacancies construction and stabilization of Bi₂MoO₆ for efficient photocatalytic NO removal. Applied Catalysis B: Environmental, 2020, 265, 118585.
4. Xuehao Zhang, Dongbing Cheng, Lei Ji, Hongwei An, Dong Wang, Zixin Yang*, Hao Chen*, Zengying Qiao*, Hao Wang*. Photothermal-Promoted Morphology Transformation in Vivo Monitored by Photoacoustic Imaging. Nano Letters, 2020, 20, 1286-1295.
5. Yanzhu Luo, Dekang Huang, Chennan Liang, Pei Wang, Kang Han, Buke Wu, Feifei Cao, Liqiang Mai*, Hao Chen*. Fe₂VO₄ Hierarchical Porous Microparticles Prepared via a Facile Surface Solvation Treatment for High-Performance Lithium and Sodium Storage. Small, 2019, 15, 1804706.
6. Xianglong Yang#, Shengyao Wang#, Nan Yang#, Wei Zhou, Pei Wang, Kai Jiang, Shu Li, Hui Song, Xing Ding*, Hao Chen*, Jinhua Ye*. Oxygen vacancies induced special CO₂ adsorption modes on Bi₂MoO₆ for highly selective conversion to CH₄. Applied Catalysis B-Environmental, 2019, 259, 118088.
7. Xiao Xu#, Xing Ding#, Xianglong Yang, Pei Wang, Shu Li, Zhexue Lu, Hao Chen*. Oxygen vacancy boosted photocatalytic decomposition of ciprofloxacin over Bi₂MoO₆: Oxygen vacancy engineering, biotoxicity evaluation and mechanism study. Journal of Hazardous Materials, 2019, 364, 691-699.
8. Xiaohu Zhang, Jie Xiao, Min Hou, Yonggang Xiang, Hao Chen*. Robust visible/near-infrared light driven hydrogen generation over Z-scheme conjugated polymer/CdS hybrid. Applied Catalysis B: Environmental, 2018, 224, 871-876.
9. Yonggang Xiang, Xuepeng Wang, Li Rao, Pei Wang, Dekang Huang, Xing Ding, Xiaohu Zhang, Shengyao Wang, Hao Chen*, Yongfa Zhu*. Conjugated Polymers with Sequential Fluorination for Enhanced Photocatalytic H₂ Evolution via Proton-Coupled Electron Transfer. ACS Energy Letters, 2018, 3(10), 2544-2549.
10. Shengyao Wang, Fumihiko Ichihara, Hong Pang, Hao Chen*, Jinhua Ye*. Nitrogen Fixation Reaction Derived from Nanostructured Catalytic Materials. Advanced Functional Materials, 2018, 28(50), 1803309.
11. Huijie Hou#, Xiaohu Zhang#, Dekang Huang, Xing Ding, Shengyao Wang, Xianglong Yang, Shengqing Li, Yonggang Xiang*, Hao Chen*. Conjugated microporous poly(benzothiadiazole)/TiO₂ heterojunction for visible-light-driven H₂ production and pollutant removal. Applied Catalysis B: Environmental, 2017, 203, 563-571.
12. Shengyao Wang, Xiao Hai, Xing Ding, Kun Chang, Yonggang Xiang, Xianguang Meng, Zixin Yang, Hao Chen*, Jinhua Ye*. Light-Switchable Oxygen Vacancies in Ultrafine Bi₂O₇Br Nanotubes for Boosting Solar-Driven Nitrogen Fixation in Pure Water. Advanced Materials, 2017, 29(31), 1701774.
13. Shengyao Wang, Xing Ding, Xuehao Zhang, Hong Pang, Xiao Hai, Guangming Zhan, Wei Zhou, Hui Song, Lizhi Zhang, Hao Chen*, Jinhua Ye*. In Situ Carbon Homogeneous Doping on Ultrathin Bismuth Molybdate: A Dual-Purpose Strategy for Efficient Molecular Oxygen Activation. Advanced Functional Materials, 2017, 27(47), 1703923.
14. Shengyao Wang, Xianglong Yang, Xuehao Zhang, Xing Ding, Zixin Yang, Ke Dai, Hao Chen*. A plate-on-plate sandwiched Z-scheme heterojunction photocatalyst: BiOBr-Bi₂MoO₆ with enhanced photocatalytic performance. Applied Surface Science, 2017, 391, 194-201. (ESI高被引论文)
15. Ke Dai, Tianyou Peng*, Hao Chen*, Juan Liu, Lin Zan. Photocatalytic Degradation of Commercial Phoxim over La-Doped TiO₂ Nanoparticles in Aqueous Suspension. Environmental Science & Technology, 2009, 43(5), 1540-1545.

主持的课题组网站主页: <http://hchen.hzau.edu.cn/>

