

邱博诚/教授

院系：化学系

性别：男

从事专业：材料化学、环境化学

学位：博士

学位：研究生

毕业院校：华东理工大学

职称：教授

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研究方向：1. 光催化环境污染物处理；2. 光/电催化分解水；3. 光催化 CO₂ 还原；4. 光/电化学固氮。

个人简介

邱博诚，教授，博士生导师。2017 年取得工学博士学位（华东理工大学应用化学专业），师从欧洲科学院院士张金龙教授。随后在香港理工大学应用物理系从事博士后研究，2020 年作为高层次引进人才加入南京农业大学理学院。主要研究以“碳达峰、碳中和”为目标，合成具有高效光电转化效率的析氢及 CO₂ 还原催化剂。迄今为止，共发表 SCI 论文 40 余篇，被引 3400 余次，“h-index”为 27。其中，以第一作者/通讯作者身份在 Chem. Soc. Rev., J. Am. Chem. Soc., Angew. Chem. Int. Ed., Adv. Funct. Mater., ACS Catal., Adv. Sci., Appl. Catal. B: Environ., Small, J. Mater. Chem. A 等国际期刊上发表 SCI 论文 20 余篇，影响因子 > 10.0 论文 13 篇，8 篇入选“ESI 高被引论文”，2 篇入选“0.1% 热点文章”。

本课题组常年招收研究生、并欢迎本科生来组进行毕业设计 & SRT 项目研究，详情邮件联系。

学习工作经历

2008-2012	南京农业大学，理学院，本科
2012-2017	华东理工大学，化学与分子工程学院，博士研究生，导师：张金龙教授
2017-2019	香港理工大学，应用物理系，博士后研究员，合作导师：柴扬教授
2019-2020	香港理工大学，应用物理系，助理研究员，合作导师：柴扬教授
2020-	南京农业大学，理学院，教授，博士生导师

发表论文

1. **Bocheng Qiu**,* Pan Huang, Cheng Lian,* Yingxin Ma, Mingyang Xing, Honglai Liu, Jinlong Zhang.* Realization of All-in-One Hydrogen-Evolving Photocatalysts via Selective Atomic Substitution. *Applied Catalysis B: Environmental*, 2021, 298, 120518. (IF: 19.503)
2. Qiaohong Zhu, Zehong Xu, **Bocheng Qiu***, Mingyang Xing, and Jinlong Zhang*, Emerging co-catalysts on g-C₃N₄ for photocatalytic hydrogen evolution. *Small*, 2021, DOI:

10.1002/sml.202101070. (IF: 13.281)

3. **Bocheng Qiu**, Lejuan Cai, Ning Zhang, Xiaoming Tao, and Yang Chai*, A Ternary Dumbbell Structure with Spatially Separated Catalytic Sites for Photocatalytic Overall Water Splitting. *Advanced Science*, 2020, 1903568. (IF: 16.806)
4. **Bocheng Qiu**, Cong Wang, Ning Zhang, Lejuan Cai, Yujie Xiong and Yang Chai*. CeO₂ Induced Interfacial Co²⁺ Octahedral Sites and Oxygen Vacancies for Water Oxidation. *ACS Catalysis*, 2019, 9, 6484-6490. (IF: 13.084) (ESI 高被引论文)
5. **Bocheng Qiu**, Lejuan Cai, Yang Wang, Xuyun Guo, Sainan Ma, Ye Zhu, Yuen Hong Tsang, Zijian Zheng, Renkui Zheng, and Yang Chai*. Phosphorus Incorporation into Co₉S₈ Nanocages for Highly Efficient Oxygen Evolution Catalysis. *Small*, 2019, 15, 1904507. (IF: 13.281)
6. **Bocheng Qiu**, Lejuan Cai, Yang Wang, Ziyuan Lin, Yunpeng Zuo, Mengye Wang, Yang Chai*. Fabrication of Nickel-Cobalt Bimetal Phosphide Nanocages for Enhanced Oxygen Evolution Catalysis. *Advanced Functional Materials*, 2018, 28, 201706008. (IF: 18.808) (ESI 高被引论文)
7. **Bocheng Qiu**, Mingyang Xing* and Jinlong Zhang*. Recent advances in three-dimensional graphene based materials for catalysis applications. *Chemical Society Reviews*, 2018, 47, 2165-2216. (IF: 54.564) (ESI 高被引论文和 0.1%热点论文)
8. **Bocheng Qiu**, Qiaohong Zhu, Mengmeng Du, Linggang Fan, Mingyang Xing* and Jinlong Zhang*. Efficient Solar Light Harvesting CdS/Co₉S₈ Hollow Cubes for Z-Scheme Photocatalytic Water Splitting. *Angewandte Chemie International Edition*, 2017, 56, 2684-2688. (IF: 15.336) (ESI 高被引论文)
9. **Bocheng Qiu**, Mingyang Xing*, Qiuying Yi and Jinlong Zhang*. Chiral Carbonaceous Nanotubes Modified with Titania Nanocrystals: Plasmon-Free and Recyclable SERS Sensitivity. *Angewandte Chemie International Edition*, 2015, 54, 10643-10647. (IF: 15.336)
10. **Bocheng Qiu**, Mingyang Xing* and Jinlong Zhang*. Mesoporous TiO₂ nanocrystals grown in situ on graphene aerogels for high photocatalysis and lithium-ion batteries. *Journal of the American Chemical Society*, 2014, 136, 5852-5855. (IF: 15.419) (ESI 高被引论文和 0.1%热点论文)
11. Mingyang Xing, **Bocheng Qiu***, Qiaohong Zhu, Mengmeng Du, Linggang Fan, and Jinlong Zhang*. Spatially Separated CdS Shells Exposed with Reduction Surfaces for Enhancing Photocatalytic Hydrogen Evolution. *Advanced Functional Materials*, 2017, 27, 1702624. (IF: 18.808) (ESI 高被引论文)
12. **Bocheng Qiu**, Qiaoying Li, Bin Shen, Mingyang Xing* and Jinlong Zhang*. Stöber-like method to synthesize ultradispersed Fe₃O₄ nanoparticles on graphene with excellent Photo-Fenton reaction and high-performance lithium storage. *Applied Catalysis B: Environmental*, 2016, 183, 216-223. (IF: 19.503) (ESI 高被引论文)
13. **Bocheng Qiu**, Mingyang Xing* and Jinlong Zhang*. Stöber-like method to synthesize ultralight, porous, stretchable Fe₂O₃/graphene aerogels for excellent performance in Photo-Fenton reaction and electrochemical capacitors. *Journal of Materials Chemistry A*,

2015, 3, 12820-12827. (IF: 12.732)

14. Yingxin Ma, **Bocheng Qiu**,* Jinlong Zhang, Mingyang Xing,* Vacancy Engineering of Ultrathin 2D Materials for Photocatalytic CO₂ Reduction, *ChemNanoMat*, 2021, 7, 368-379. **Invited Review (IF:3.154)**
15. **Bocheng Qiu**, Cong Wang, Jingli Wang, Ziyuan Lin, Ning Zhang, Lejuan Cai, Xiaoming Tao, Yang Chai,* Metal-free tellurene cocatalyst with tunable bandgap for enhanced photocatalytic hydrogen production. *Materials Today Energy*, 2021, 21, 100720. (IF: 7.311)
16. Qiaohong Zhu, Zehong Xu, Qiuying Yi, Muhammad Nasir, Mingyang Xing, **Bocheng Qiu*** and Jinlong Zhang* Prolonged electron lifetime in sulfur vacancy-rich ZnCdS nanocages by interstitial phosphorus doping for photocatalytic water reduction. *Materials Chemistry Frontiers*, 2020, 4, 3234-3239. (IF: 6.482)
17. **Bocheng Qiu**, Lejuan Cai, Yang Wang, Sainan Ma, Yuen Hong Tsang*, and Yang Chai*, Accelerated oxygen evolution kinetics on nickel-iron diselenide nanotubes by modulating electronic structure. *Materials Today Energy*, 2019, 11, 89-96. (IF: 7.311)
18. **Bocheng Qiu**, Qiaohong Zhu, Mingyang Xing* and Jinlong Zhang*. A robust and efficient catalyst of Cd_xZn_{1-x}Se motivated by the CoP for the photocatalytic hydrogen evolution under the sunlight irradiation. *Chemical Communications*, 2016, 53, 897-900. (IF: 6.222)
19. **Bocheng Qiu**, Yi Zhou, Yunfei Ma, Xiaolong Yang, Mingyang Xing* and Jinlong Zhang*. Facile synthesis of the Ti³⁺ self-doped TiO₂-graphene nanosheet composites with enhanced photocatalysis. *Scientific Reports*, 2015, 5, 8591-8596. (IF: 4.379) (ESI 高被引论文)
20. **Bocheng Qiu**, Yuanxin Deng, Qiaoying Li, Bin Shen, Mingyang Xing* and Jinlong Zhang*. Rational Design of a Unique Ternary Structure for Highly Photocatalytic Nitrobenzene Reduction. *The Journal of Physical Chemistry C*, 2016, 120, 12125-12131. (IF: 4.126)
21. **Bocheng Qiu**, Yuanxin Deng, Mengmeng Du, Mingyang Xing* and Jinlong Zhang*. Ultradispersed Cobalt Ferrite Nanoparticles Assembled in Graphene Aerogel for Continuous Photo-Fenton Reaction and Enhanced Lithium Storage Performance. *Scientific Reports*, 2016, 6, 29099-29108. (IF: 4.379)
22. **Bocheng Qiu**, Chengchao Zhong, Mingyang Xing* and Jinlong Zhang*. Facile preparation of C-modified TiO₂ supported on MCF for high visible-light-driven photocatalysis. *RSC Advances*, 2015, 5, 17802-17808. (IF: 3.361)
23. Wahee Iqbal[†], **Bocheng Qiu**[†], Juying Lei, Lingzhi Wang, Jinlong Zhang*, Masakazu Anpo*. One-step large-scale highly active g-C₃N₄ nanosheets for efficient sunlight-driven photocatalytic hydrogen production. *Dalton Transactions*. 2017, 46, 10678-10684. (IF: 4.390)
24. Waheed Iqbal[†], **Bocheng Qiu**[†], Qiaohong Zhu[†], Mingyang Xing, Jinlong Zhang*, Self-modified breaking hydrogen bonds to highly crystalline graphitic carbon nitrides nanosheets for drastically enhanced hydrogen production. *Applied Catalysis B: Environmental*. 2018, 232,

306-313. (IF: 19.503)

25. Qiaohong Zhu⁺, **Bocheng Qiu⁺**, Mengmeng Du, Jiahui Ji, Muhammad Nasir, Mingyang Xing,* and Jinlong Zhang*, Dopant-Induced Edge and Basal Plane Catalytic Sites on Ultrathin C₃N₄ Nanosheets for Photocatalytic Water Reduction. *ACS Sustainable Chemistry & Engineering* 2020, 8, 19, 7497–7502. (IF: 8.198)