

王潇

性别：女

出生年月：1995年1月

户籍：山东青岛黄岛区

政治面貌：群众

电话（微信号同）：13478697102

E-mail: wx0110@dicp.ac.cn



## 教育及工作经历

2021.6 – 至今： 博士后 中科院大连化学物理研究所 合作导师：吴忠帅 研究员/孙承林 研究员  
2016.9 – 2021.6： 硕博 中科院大连化学物理研究所 物理化学 导师：吴忠帅 研究员  
2012.9 – 2016.7： 学士 山东农业大学 材料化学

## 科研经历与研究领域

**研究领域：**二维材料、石墨烯、锌离子/钠离子等水系二次电池

## 发表论文（共 16 篇，其中一作/共一，IF>10 共 6 篇，总计 IF=120）

1. **Xiao Wang**, Yaguang Li, Sen Wang, Feng Zhou, Prateek Das, Chenglin Sun, Shuanghao Zheng, Zhong-Shuai Wu,\* 2D amorphous V<sub>2</sub>O<sub>5</sub>/Graphene heterostructures for high-safety aqueous Zn-ion batteries with unprecedented capacity and ultrahigh rate capability, *Advanced Energy Materials*, 2020, 10, 2000081. (**Back Cover IF= 29.698**)
2. **Xiao Wang**†, Yaguang Li†, Prateek Das, Shuanghao Zheng, Feng Zhou, Zhong-Shuai Wu,\* Layer by-layer stacked amorphous V<sub>2</sub>O<sub>5</sub>/Graphene 2D heterostructures with strong-coupling effect for high-capacity aqueous zinc-ion batteries with ultra-long cycle life, *Energy Storage Materials*, 2020, 31, 156–163. (**IF= 20.831**)
3. **Xiao Wang**, Shuanghao Zheng, Feng Zhou, Jieqiong Qin, Xiaoyu Shi, Sen Wang, Chenglin Sun, Xinhe Bao, Zhong-Shuai Wu,\* Scalable fabrication of printed Zn//MnO<sub>2</sub> planar micro-batteries with high volumetric energy density and exceptional safety, *National Science Review*, 2020, 7, 64–72. (**Cover IF= 23.178**)
4. **Xiao Wang**, Huijuan Huang, Feng Zhou, Prateek Das, Pengchao Wen, Shuanghao Zheng, Pengfei Lu, Yan Yu,\* Zhong-Shuai Wu,\* High-voltage aqueous planar symmetric sodium ion micro-batteries with superior performance at low-temperature of -40 °C, *Nano Energy*, 2021, 82, 105688. (**IF= 19.069**)
5. **Xiao Wang**, Zhong-Shuai Wu,\* Zinc based micro-electrochemical energy storage devices: Present status and future perspective, *EcoMat*, 2020, 2, e12042. (**IF =12.213, Inside Front Cover**).
6. **Xiao Wang**†, Jieqiong Qin†, Qi Hu, Prateek Das, Pengchao Wen, Shuanghao Zheng, Feng Zhou, Liang Feng,\* and Zhong-Shuai Wu\*, Multifunctional mesoporous polyaniline/graphene nanosheets for flexible planar integrated microsystem of zinc ion microbattery and gas sensor, *Small*, 2022, 18, 2200678. (**IF =15.153**)
7. **Xiao Wang**, Chenglin Sun, Zhong-Shuai Wu,\* Recent progress of dendrite-free stable zinc anodes for advanced zinc-based rechargeable batteries: fundamentals, challenges and perspectives. *SusMat*, 2023, Accepted.
8. Shuanghao Zheng, Zhong-Shuai Wu,\* Feng Zhou, **Xiao Wang**, Jiaming Ma, Cheng Liu, Yan-Bing He, Xinhe

- Bao, All-Solid-State planar integrated lithium ion micro-batteries with extraordinary flexibility and high-temperature performance, *Nano Energy*, 2018, 51, 613-620. (IF= 19.069)
9. Yaguang Li, Zhong-Shuai Wu,\* Pengfei Lu, **Xiao Wang**, Wei Liu, Zhibo Liu, Jingyuan Ma, Wencai Ren, Zheng Jiang,\* Xinhe Bao, High-Valence Nickel Single-Atom Catalysts Coordinated to Oxygen Sites for Extraordinarily Activating Oxygen Evolution Reaction, *Advanced Science*, 2020, 7, 1903089. (IF= 17.521)
10. Yao Li, Tong Qiu, Pengfei Lu, Ping Shang, Lisha Wu, **Xiao Wang**, Yanfeng Dong \*, Ronghuan He, Zhong-Shuai Wu,\* Pyridinic nitrogen enriched porous carbon derived from bimetal organic frameworks for high capacity zinc ion hybrid capacitors with remarkable rate capability, *Journal of Energy Chemistry* , 2021, 56, 404-411. (IF=13.599)
11. Shuanghao Zheng, Sen Wang, Yanfeng Dong, Feng Zhou, Jieqiong Qin, **Xiao Wang**, Feng Su, Chenglin Sun, Zhong-Shuai Wu,\* Hui-Ming Cheng, and Xinhe Bao, All-Solid-State Planar Sodium Ion Micro-Capacitors with Multi-Directional Fast Ion Diffusion Pathways, *Advanced Science*, 2019, 6(23), 1902147. (IF= 17.521)
12. Haibo Huang, Haodong Shi, Prateek Das, Jieqiong Qin, Yaguang Li, **Xiao Wang**, Feng Su, Pengchao Wen, Suyuan Li, Pengfei Lu, Fangyan Liu, Yuejiao Li, Ying Zhang, Yi Wang, Zhong-Shuai Wu,\* Hui-Ming Cheng,\* The Chemistry and Promising Applications of Graphene and Porous Graphene Materials, *Advanced Functional Materials*, 2020, 1909035. (IF= 19.924)
13. Jin Cao, Dongdong Zhang, Yilei Yue, **Xiao Wang**, Teerachote Pakornchote, Thiti Bovornratanaraks, Xinyu Zhang,\* Zhong-Shuai Wu\*\*, Jiaqian Qin\*, Oxygen defect enriched  $(\text{NH}_4)_2\text{V}_{10}\text{O}_{25}\cdot 8\text{H}_2\text{O}$  nanosheets for superior aqueous zinc-ion batteries, *Nano Energy*, 2021, 84, 105876. (IF= 19.069)
14. Jin Cao, Dongdong Zhang, Chao Gu, **Xiao Wang**, Shanmin Wang, Xinyu Zhang,\* Jiaqian Qin,\* and Zhong-Shuai Wu\*, Manipulating Crystallographic Orientation of Zinc Deposition for Dendrite-free Zinc Ion Batteries, *Advanced Energy Materials*, 2021, 11, 2101299.( IF= 29.698)
15. Jieqiong Qin, Jianmei Gao, Xiaoyu Shi, Junyu Chang, Yanfeng Dong, Shuanghao Zheng, **Xiao Wang**, Liang Feng,\* Zhong-Shuai Wu,\* Hierarchical ordered dual-mesoporous polypyrrole/ graphene nanosheets as bi-functional active materials for high-performance planar integrated system of micro-supercapacitor and gas sensor, *Advanced Functional Materials*, 2020, 30, 1909756. (IF= 19.924)
16. Sen Wang, **Xiao Wang**, Chenglin Sun,\* Zhong-Shuai Wu,\* Room-temperature Fast Assembly of 3D Macroscopically Porous Graphene Frameworks for Binder-free Compact Supercapacitors with High Gravimetric and Volumetric Capacitances, *Journal of Energy Chemistry*, 2021,63, 23-28. (IF= 13.599)

## 授权及申请专利

1. 吴忠帅, **王潇**, 郑双好; 一种平面电池及其制备方法和应用, 已授权, ZL 201911269488.7
2. 吴忠帅, **王潇**; 一种平面钠离子电池及其制备方法, 申请号: 202111545408.3
3. 吴忠帅, **王潇**, 李亚光; 钒基二维异质结材料的制备方法及其作为正极材料在锌离子电池中的应用, 申请号: 202011452982.X
4. 吴忠帅, **王潇**; 一种微流控辅助构建平面微型超级电容器的制备方法, 申请号: 202211161901.X

## 主持或参与基金项目

1. 全 3D 打印高能量密度锌离子微型电池及其储能机理研究, 青年科学基金, 主持
2. 二维有序介孔材料的可控制备及其高面载量高稳定无枝晶锌负极的构筑, 中国博士后科学基金, 二等资助, 主持
3. 3D 打印全固态锌离子微型电池, 辽宁省自然科学基金计划 (博士科研启动计划), 主持
4. 可打印平面微型电池的构建及其储能机制原位研究, 面上项目, 参与
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6. 石墨烯基高比能超级电容器关键材料与器件性能研究, 面上项目, 参与

## 荣誉与奖励

中国科学院院长优秀奖	2021 年
渤海化工奖学金三等奖	2021 年
中国科学院大学三好学生标兵	2021 年
中科院大连化学物理研究所“三好学生”	2020 年
山东农业大学 “优秀学生二等奖学金”	2013 年-2016 年