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【概述】夏威，宁波东方理工大学（暂名）理学部助理教授（副研究员、博导），上海交通大学兼职博导。2016 年获北京大学力学（先进材料与力学）博士学位，先后在加拿大西安大略大学、南方科技大学担任博士后和副研究员职务。主要从事全固态电池和中子散射技术研究，并参与中子大科学装置建设。已在 *Chem. Rev.*, *J. Am. Chem. Soc.*, *Energy Environ. Sci.*, *Angew. Chem. Int. Ed.*, *Adv. Mater.*, *Nano Lett.* 等国际著名学术期刊发表 SCI 收录论文 50 余篇，被引用 8000 余次，H-index 为 32，有 7 篇第一作者论文入选 ESI 高引论文；申请和授权专利 6 件，主持和参与国家、省市级项目 9 项；曾就职世界五百强企业电池研发部门，具有电池研发和工程化经验；获甬江人才、深圳市海外高层次人才，入选 2023“全球前 2% 顶尖科学家”榜单。

研究领域

全固态电池、中子散射、晶体材料自动化合成与结构解析

教育背景

2011-2016：北京大学，力学（先进材料与力学），博士

2014：美国阿贡国家实验室，访问学生

2007-2011：北京科技大学，材料科学与工程实验班，学士

工作经历

2022.07-至今，宁波东方理工大学（暂名），理学部，助理教授（副研究员）

2022.02-2022.06，南方科技大学，前沿与交叉科学研究院，副研究员

2019.09-2022.02，加拿大西安大略大学，机械与材料工程系，访问学者&博士后

2019.03-2019.09，南方科技大学，前沿与交叉科学研究院，副研究员

2016.07-2019.02，世界五百强企业电池研发部门，工程师 A

获奖及荣誉

2023：全球前 2% 顶尖科学家

2023：甬江人才

2021：深圳市海外高层次人才（C 类）

2016：北京大学优秀博士学位论文

2016：北京市普通高等学校优秀毕业生

2016：北京大学优秀毕业生

2016：北京大学工学院“学术十杰”

10 篇代表作 (*通讯作者, ‡共同一作)

- [1] Pengcheng Yu, Haochang Zhang, Fiaz Hussain, Jing Luo, Wen Tang, Jiuwei Lei, Lei Gao, Denys Butenko, Changhong Wang, Jinlong Zhu, Wen Yin, Hao Zhang, Songbai Han*, Ruqiang Zou*, Wei Chen, Yusheng Zhao, **Wei Xia***, Xueliang Sun*, Lithium metal compatible antiferroite electrolytes for solid-state batteries, *Journal of the American Chemical Society*, 2024, 10.1021/jacs.4c02170.
- [2] Jin-Xiu Chen, Jin-Hao Zhang, Xiao-Zhong Fan, Fang-Fang Wang, Wen Tang, **Wei Xia***, Yusheng Zhao*, Long Kong*, *Energy & Environmental Science*, 2024, 10.1039/D3EE03809B.
- [3] Fiaz Hussain, Pengcheng Yu, Jinlong Zhu, Hui Xia*, Yusheng Zhao*, **Wei Xia***. Theoretical prediction of spinel $\text{Na}_2\text{In}_x\text{Sc}_{0.666-x}\text{Cl}_4$ and rock-salt $\text{Na}_3\text{In}_{1-x}\text{Sc}_x\text{Cl}_6$ superionic conductors for all-solid-state sodium-ion batteries. *Advanced Theory and Simulations*, 2023, 6(1): 2200569.
- [4] **Wei Xia**‡, Yang Zhao‡, Feipeng Zhao‡, Keegan Adair, Ruo Zhao, Shuai Li, Ruqiang Zou*, Yusheng Zhao*, Xueliang Sun*, Antiperovskite electrolytes for solid-state batteries, *Chemical Reviews*, 2022, 122(3): 3763-3819.
- [5] Hao Zhang‡, **Wei Xia**‡, Haoming Shen, Wenhan Guo, Zibin Liang, Kexin Zhang, Yingxiao Wu, Bingjun Zhu, Ruqiang Zou*, Antiperovskite intermetallic nanoparticles for enhanced oxygen reduction, *Angewandte Chemie International Edition*, 2020, 59(5): 1871-1877.
- [6] **Wei Xia**‡, Chong Qu‡, Zibin Liang, Bote Zhao, Shuge Dai, Bin Qiu, Yang Jiao, Qiaobao Zhang, Xinyu Huang, Wenhan Guo, Dai Dang, Ruqiang Zou*, Dingguo Xia*, Qiang Xu*, Meilin Liu*, High-performance energy storage and conversion materials derived from a single metal-organic framework/graphene aerogel composite, *Nano Letters*, 2017, 17(5): 2788-2795.
- [7] Qi-Long Zhu‡, **Wei Xia**‡, Tomoki Akita, Ruqiang Zou*, Qiang Xu*, Metal-organic framework-derived honeycomb-like open porous nanostructures as precious-metal-free catalysts for highly efficient oxygen electroreduction, *Advanced Materials*, 2016, 28(30), 6391-6398.
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- [9] **Wei Xia**‡, Asif Mahmood‡, Ruqiang Zou*, Qiang Xu*, Metal-organic frameworks and their derived nanostructures for electrochemical energy storage and conversion, *Energy & Environmental Science*, 2015, 8(7): 1837-1866.
- [10] **Wei Xia**, Ruqiang Zou*, Li An, Dingguo Xia, Shaojun Guo*, A metal-organic framework route to in situ encapsulation of $\text{Co}@\text{Co}_3\text{O}_4@\text{C}$ core@shell nanoparticles into a highly ordered porous carbon matrix for oxygen reduction, *Energy & Environmental Science*, 2015, 8(2): 568-576.

论文专著列表 (‡共同一作, *通讯作者)

- [54] Pengcheng Yu, Haochang Zhang, Fiaz Hussain, Jing Luo, Wen Tang, Jiuwei Lei, Lei Gao, Denys Butenko, Changhong Wang, Jinlong Zhu, Wen Yin, Hao Zhang, Songbai Han*, Ruqiang Zou*, Wei Chen, Yusheng Zhao, **Wei Xia***, Xueliang Sun*, Lithium metal compatible antiferroite electrolytes for solid-state batteries, *Journal of the American Chemical Society*, 2024, 10.1021/jacs.4c02170.
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- of CrN based on rietveld refinement method, *Phys. Status Solidi B*, 2024, 261(3), 2300195.
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- [49] Fiaz Hussain, Jinlong Zhu*, Yusheng Zhao, **Wei Xia***, Vacancy mediated fast sodium-conduction in halide sodalites: a theoretical study, *Materials Today Chemistry*, 2023, 33, 101746.
- [48] Jia-Yue Duan, Jin-Xiu Chen, Fang-Fang Wang, Jin-Hao Zhang, Xiao-Zhong Fan, Liping Wang, Yingze Song, **Wei Xia***, Yusheng Zhao*, Long Kong*, Ambiently fostering solid electrolyte interphase for low-temperature lithium metal batteries, *Journal of Energy Chemistry*, 2023, 87, 473-478.
- [47] Wen Tang, **Wei Xia***, Fiaz Hussain, Jinlong Zhu, Songbai Han, Wen Yin, Pengcheng Yu, Jiuwei Lei, Denys S Butenko, Liping Wang, Yusheng Zhao, A dual-halogen electrolyte for protective-layer-free all-solid-state lithium batteries, *Journal of Power Sources*, 2023, 568, 232992.
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近五年获资助科研项目

(1) 国家自然科学基金青年科学基金项目，功能多孔骨架材料核心位点修饰及锂离子传导机理研究，2020-01 至 2022-12，主持

(2) 国家自然科学基金联合基金项目，基于卤化物超离子导体的全固态钠离子电池关键材料与界面研究，2023-01 至 2026-12，参与

(3) 浙江省自然科学基金项目，基于中子散射的卤化物固态电解质材料结构和离子传输机制研究，2023-01 至 2025-12，主持

(4) 甬江人才工程科技创新领域青年创新人才项目，新型全固态电池关键材料和器件研究，2024-01 至 2028-12，主持

(5) 宁波市自然科学基金项目，基于中子全散射的锂离子导体无序结构及离子输运机制研究，2023-06 至 2026-05，主持

(6) 宁波市“科创甬江 2035”关键技术突破计划，下一代高比能磷酸盐正极材料的开发，2024-01 至 2026-12，参与

(7) 深圳市科技创新委员会深圳市高层次人才团队项目，新型固态离子导体的晶体场设计与储能器件研发，2021-05 至 2026-04，参与

(8) 深圳市发改委-重大科技基础设施关键技术和设备研发项目，材料基因组大科学装置平台重大科技基础设施，高压中子谱仪，2020-01 至 2023-12，参与

(9) 深圳市合纵清洁能源研究院低碳能源与氢能关键技术研究，锂电池固态电解质研究与开发，2019-04 至 2020-03，参与