



师资队伍

环境材料系

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### 1. 工作经历:

2017/09-至今，青岛大学，环境科学与工程学院，副教授

### 2. 科研领域:

- (1) 二次碱金属离子电池电极材料的制备与性能研究
- (2) 全固态离子电池隔膜材料的制备与性能研究
- (3) 缺陷结构在二次电池与燃料电池电极材料中的构建

### 3. 科研项目:

- (1) 国家自然科学基金青年基金项目，双功能电催化剂焦磷酸钴钠/碳气凝胶可控缺陷构筑与机理研究，22005165，2021.01-2023.12，负责人
- (2) 山东省自然科学基金项目，基于海藻酸钠生物质钠离子电池正极材料的制备及应用，ZR2018BEM002，2018.03-2020.12，负责人

(3) 青岛市人才发展专项，基于海藻酸纤维蛋盒结构的 $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ 钠离子电池正极材料的优化合成及其储钠性能研究，19-6-2-83-cg, 2019.08—2021.08，负责人

(4) 生物多糖纤维成形与生态纺织国家重点实验室自主课题（自主课题），2020.8-2021/12，负责人

#### 4. 教学工作：

讲授《环境催化前沿》、《环境与催化》、《新型高分子材料合成》

#### 5. 代表性成果：

(1) Yihui Zou, Yu Gu, Bin Hui, Xianfeng Yang, Hongwei Liu, Shuai Chen, Rongsheng Cai, Jin Sun, Xiaoli Zhang, Dongjiang Yang\*, Nitrogen and Sulfur Vacancies in Carbon Shell to Tune Charge Distribution of  $\text{Co}_6\text{Ni}_3\text{S}_8$  Core and Boost Sodium Storage. *Advanced Energy Materials*, 2020, 10, 1904147.

(2) Yihui Zou, Wei Zhang, Ning Chen, Shuai Chen, Wenjia Xu, Rongsheng Cai, Brown Christopher L, Dongjiang Yang\*, Xiangdong Yao\*, Generating Oxygen Vacancies in MnO Hexagonal Sheets for Ultralong Life Lithium Storage with High Capacity. *ACS Nano*, 2019, 13(2), 2062-2071.

(3) Yihui Zou, Guojing Chang, Yi (Alec) Jia, Rongsheng Cai, Shuai Chen, Yanzhi Xia, Theis Wolfgang, Dongjiang Yang\*, Xiangdong Yao\*, Generating lithium vacancies through delithiation of  $\text{Li}(\text{Ni}_x\text{Co}_y\text{Mn}_z)\text{O}_2$  towards bifunctional electrocatalysts for rechargeable zinc-air batteries. *Energy Storage Materials*, 2018, 15, 202-208.

(4) Yihui Zou, Shuai Chen, Xianfeng Yang, Na Ma, Yanzhi Xia, Dongjiang Yang\*, Shaojun Guo\*, Suppressing Fe-Li Antisite Defects in  $\text{LiFePO}_4$ /Carbon Hybrid Microtube to Enhance the Lithium Ion Storage. *Advanced Energy Materials*, 2016, 6(24), 1601549.

(5) Yihui Zou, Xianfeng Yang, Chunxiao Lv, Tongchao Liu, Yanzhi Xia, Shang Lu, Waterhouse Geoffrey I. N., Dongjiang Yang\*, Tierui Zhang\*, Multishelled Ni-Rich  $\text{Li}(\text{Ni}_x\text{Co}_y\text{Mn}_z)\text{O}_2$  Hollow Fibers with Low Cation Mixing as High-Performance Cathode

Materials for Li-Ion Batteries. *Advanced Science*, 2016, 4(1), 1600262.

(6) Yihui Zou, Shuai Chen, Jin Sun, Jingquan Liu, Yanke Che, Xianghong Liu, Jun Zhang\*, Dongjiang Yang\*, Highly Efficient Gas Sensor Using a Hollow SnO<sub>2</sub> Microfiber for Triethylamine Detection. *ACS Sensors*, 2017, 2(7), 897–902.

(7) Yihui Zou, Guojing Chang, Shuai Chen, Tongchao Liu, Yanzhi Xia, Chengmeng Chen, Dongjiang Yang\*, Alginate/r-GO assisted synthesis of ultrathin LiFePO<sub>4</sub> nanosheets with oriented (010) facet and ultralow antisite defect. *Chemical Engineering Journal*, 2018, 351, 340–347.

(8) Fanyou Zeng, Yuanyuan Sun, Bin Hui, Yanzhi Xia, Yihui Zou\*, Xiaoli Zhang, Dongjiang Yang\*, Three-Dimensional Porous Alginate Fiber Membrane Reinforced PEO-Based Solid Polymer Electrolyte for Safe and High-Performance Lithium Ion Batteries. *ACS Applied Material Interfaces*, 2020, 12, 43805–4381.

(9) Wei Zhang<sup>1</sup>, Yihui Zou<sup>1</sup>, Hongli Liu, Shuai Chen, Xin Wang, Huawei Zhang, Xilin She\*, Dongjiang Yang\*, Single-crystalline (Fe<sub>x</sub>Ni<sub>1-x</sub>)<sub>2</sub>P nanosheets with dominant {011<sup>-1</sup>} facets: Efficient electrocatalysts for hydrogen evolution reaction at all pH values. *Nano Energy*, 2019, 56, 813–822.

(10) Bohan Liu<sup>1</sup>, Yihui Zou<sup>1</sup>, Shuai Chen, Huawei Zhang, Jin Sun, Xilin She, Dongjiang Yang\*, Seaweed-derived synthesis of Na<sub>3.12</sub>Fe<sub>2.44</sub>(P<sub>2</sub>O<sub>7</sub>)<sub>2</sub>/r-GO aerogels as air stable cathode materials for sodium-ion batteries. *Chemical Engineering Journal*, 2019, 365, 325–333.

(11) Tingting Yan<sup>1</sup>, Yihui Zou<sup>1</sup>, Xiaohui Zhang, Daohao Li, Xiangxin Guo, Dongjiang Yang\*, Hydrogen Bond Interpenetrated Agarose/PVA Network: Highly Ionic Conductive and Flame-Retardant Gel Polymer Electrolyte. *ACS Applied Material Interfaces*, 2021, DOI:10.1021/acsami.0c20702.

(12) Tingting Ye<sup>1</sup>, Yihui Zou<sup>1</sup>, Wenjia Xu, Tianrong Zhan, Jin Sun, Yanzhi Xia, Xiaoli Zhang, Dongjiang Yang\*, Poorly-Crystallized Poly(vinylalcohol)/Carrageenan Matrix: Highly Ionic

Conductive and Flame-Retardant Gel Polymer Electrolytes for Safe and Flexible Solid-State Supercapacitors. Journal of Power Sources, 2020, 475, 228688.

已授权发明专利

(1) 杨东江; 邹译慧; 王克伟; 余希林 一种棒状CoP/CoP<sub>2</sub>纳米复合物电催化剂的制备方法, 2020.12.29, 中国, ZL201810396469.X

(2) 柳荣展; 张宾; 邹译慧; 潘颖; 石宝龙; 于梦楠 一种高浓度黑色印花废液污染物提取及资源化利用方法, 2020.02.14, 中国, ZL201610902350.6

(3) 柳荣展; 张宾; 邹译慧; 潘颖; 张晓东; 于梦楠 一种印花废液同步脱色与氮回收方法及装置, 2019.1.25, 中国, ZL201610032718.8

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