

宋艳艳

博士、讲师

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学习与工作经历:

2013年9月-2017年6月, 工学学士, 青岛大学

2017年9月-2020年6月, 理学硕士, 青岛大学

2020年9月-2024年6月, 工学博士, 中国海洋大学

2024年8月-至今, 讲师, 鲁东大学 物理与光电工程学院

主要研究方向:

主要从事纳米材料和能源电催化研究。1) 电解(海)水制氢研究; 2) 电催化氮还原研究;

代表性成果:

- [1] **Yanyan Song**, Mingzi Sun, Shucong Zhang, Xiaoyan Zhang,* Peng Yi, Junzhe Liu, Bolong Huang,* Minghua Huang,* Lixue Zhang,* Alleviating the work function of vin-like Co_xP by Cr doping for enhanced seawater electrolysis. *Adv. Funct. Mater.* 2023, 33, 2214081. (EIS 高

被引论文)

- [2] **Yanyan Song**, Xiaoyan Zhang,* Zhengyi Xiao, Yue Wang, Peng Yi, Minghua Huang,* Lixue Zhang,* Coupled amorphous NiFeP/crystalline Ni₃S₂ nanosheets enables accelerated reaction kinetics for high current density seawater electrolysis. *Appl. Catal. B: Environ.* 2024, 352, 124028.
- [3] **Yanyan Song**, Wenjie Shi, Qingyu Li, Xi-ao Wang, Xiaoyan Zhang,* Minghua Huang, Lixue Zhang,* Ni(OH)₂ nanosheet array modified with Fe-phytate complex layer as corrosion resistant catalyst for seawater electrolysis at ampere-level current density, *Green Chem.* 2025, 27, 464-472.
- [4] **Yanyan Song**, Ting Wang, Junwei Sun, Zhichao Wang, Yonglan Luo, Lixue Zhang,* Hejiang Ye,* Xuping Sun,* Enhanced electrochemical N₂ reduction to NH₃ on reduced graphene oxide by tannic acid modification. *ACS Sustain. Chem. Eng.* 2019, 7, 14368-14372.
- [5] Qianqian Wang, **Yanyan Song**,* Deshuai Sun,* Lixue Zhang,* MOF-derived Fe-doped Ni@NC hierarchical hollow microspheres as an efficient electrocatalyst for alkaline oxygen evolution reaction, *ACS omega* 2021, 6, 11077-11082.