

NiS-Ni₃S₂ 树状异质结阵列在析氧反应中的应用

罗盼, 孙芳, 邓菊, 许海涛, 张慧娟*, 王煜*

重庆大学化学化工学院, 输配电装备及系统安全与新技术国家重点实验室, 重庆 400044

Tree-Like NiS-Ni₃S₂/NF Heterostructure Array and Its Enhanced Application in Oxygen Evolution Reaction

LUO Pan, SUN Fang, DENG Ju, XU Haitao, ZHANG Huijuan *, WANG Yu *

The State Key Laboratory of Power Transmission Equipment and System Security, School of Chemistry and Chemical Engineering, Chongqing University, Chongqing 400044, P. R. China.

*Corresponding authors. Email: wangy@cqu.edu.cn (W.Y.); zhanghj@cqu.edu.cn (Z.H.)

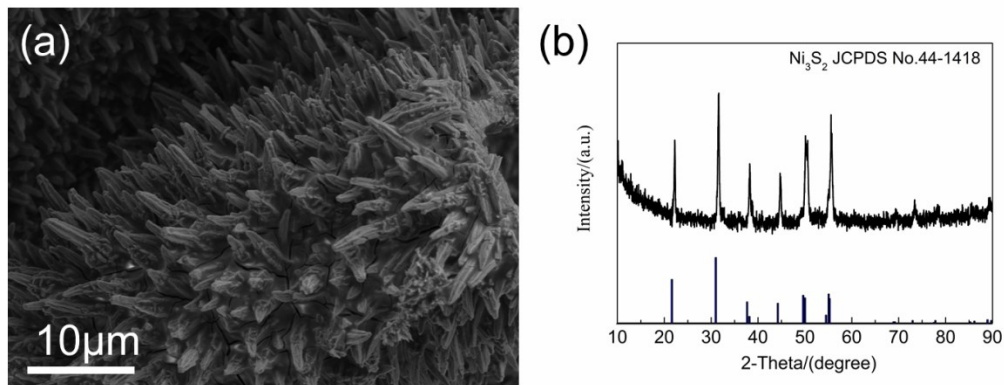


Fig. S1 (a) FESEM image of $\text{Ni}_3\text{S}_2/\text{NF}$ nanorods array. (b) The corresponding XRD pattern of Ni_3S_2 nanorods array.

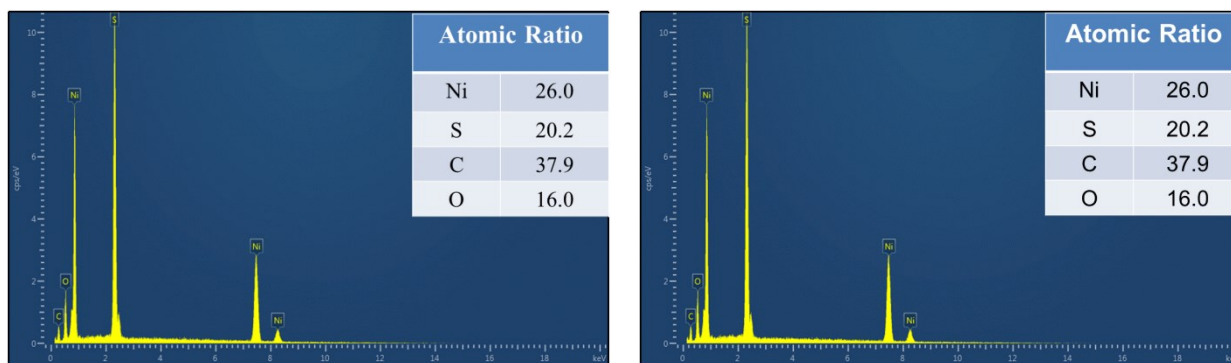


Fig. S2 The EDX spectra of tree-like $\text{NiS-Ni}_3\text{S}_2$ heterostructure array.

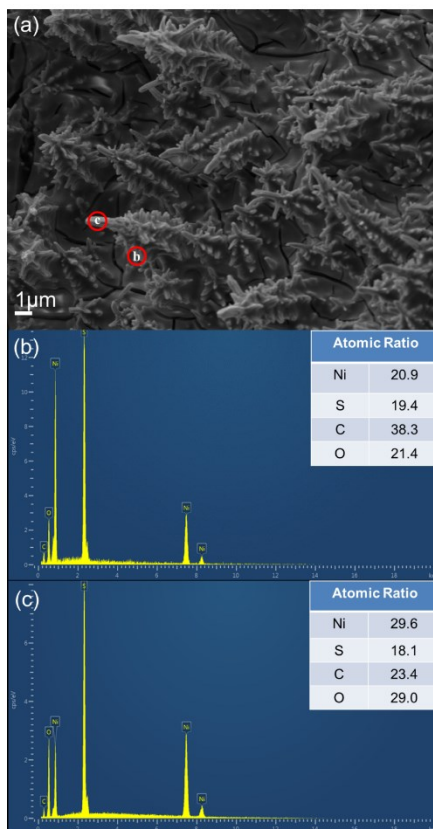


Fig. S3 (a) FESEM image of the intermediate state of the tree-like $\text{NiS-Ni}_3\text{S}_2$ heterostructure array. (b) The EDX spectra of brached NiS nanosheets. (c) The EDX data of backboned Ni_3S_2 nanorods.

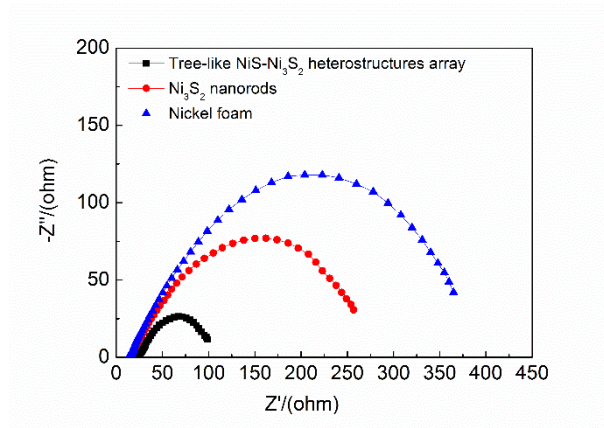


Fig. S4 Nyquist plots of Nickel foam (blue), Ni₃S₂ nanorods array (red) and tree-like NiS-Ni₃S₂ heterostructure array (black).

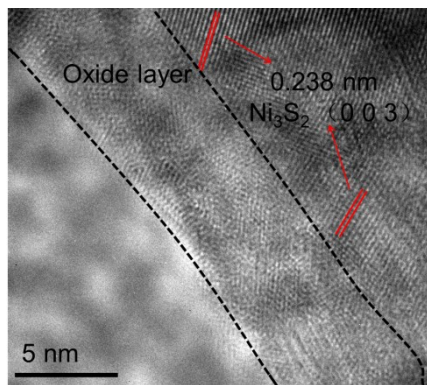


Fig. S5 HRTEM image of tree-like NiS-Ni₃S₂ heterostructure array after OER.