Mesoporous Structure and N-Doped Carbon Coating Skeleton Boosting High-Performance Nickel Phosphide Nanosheet-Based Electrocatalysts for Highly Efficient Electrocatalytic Hydrogen Evolution

Yixuan Tang, Xiaowei Niu *, Zhengjun Guan *, Chengxin Wang, Xinyu Ma, Haonan Wang and Hongyuan Pan

Key Laboratory of Ecological Restoration of Regional Contaminated Environment, Ministry of Education, College of Environment, Shenyang University, Shenyang 110044, China; tangyixuan1217@163.com (Y.T.); 15566310929@163.com (C.W.); mm_xxyy@163.com (X.M.); 15940388586@163.com (H.W.); 19853508768@163.com (H.P.)

* Correspondence: niuxiaowei@syu.edu.cn (X.N.); 15504025702@163.com (Z.G.)

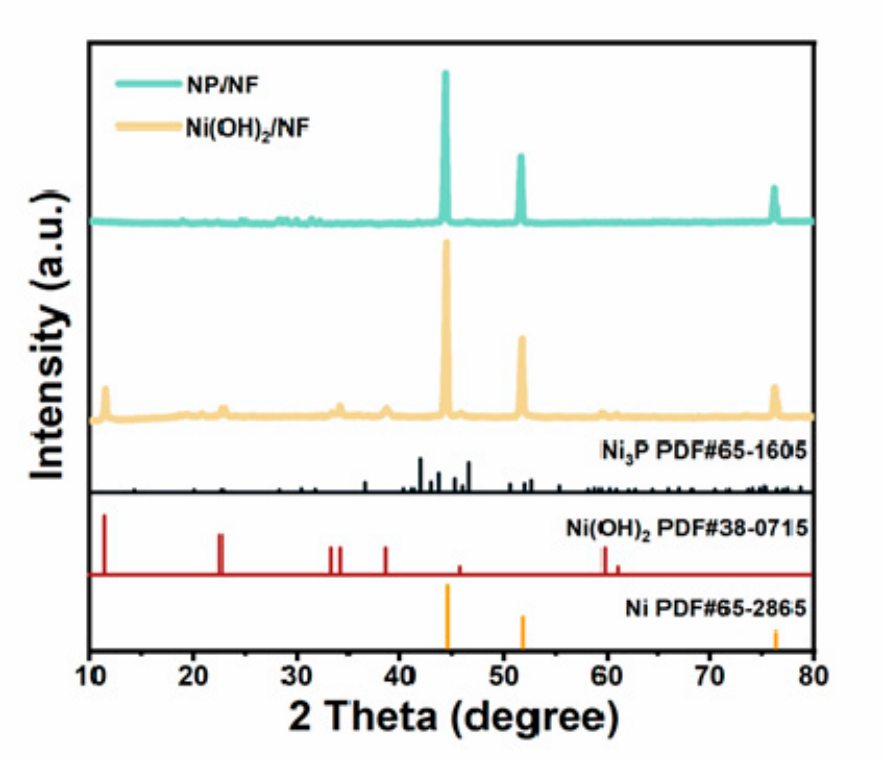


Figure S1. XRD patterns of the prepared NiOH nanosheet (red curve), NiP (yellow curve), and N-C coating- NiP compounds (blue curve), respectively.

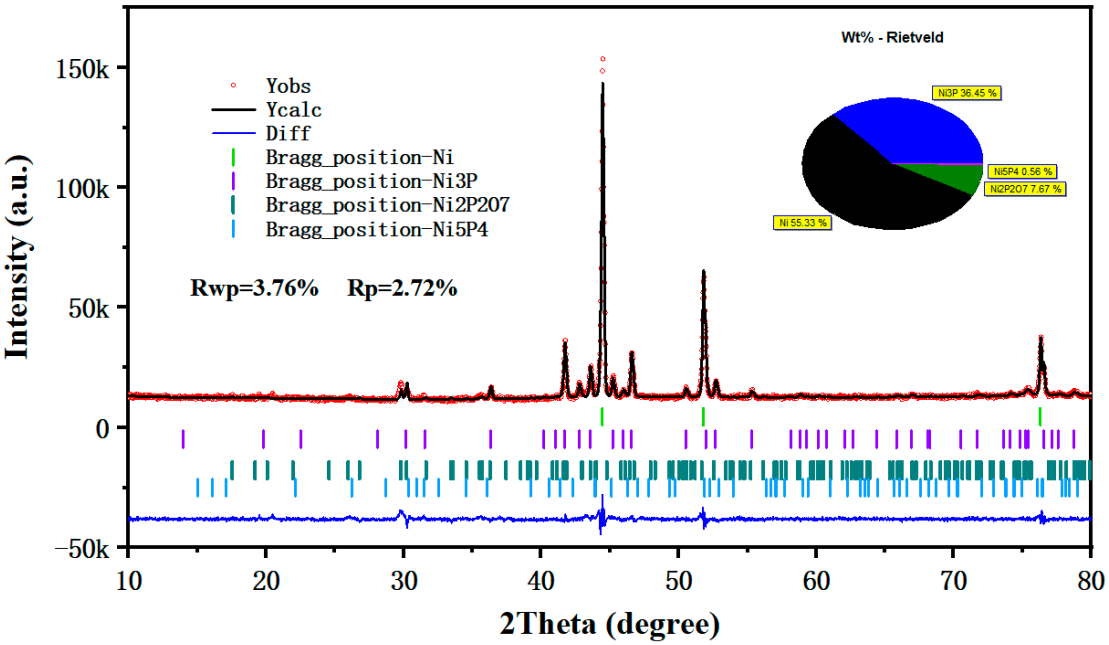


Figure S2. LeBail fitting of the XRD pattern for the NCNPNF-2 catalyst.

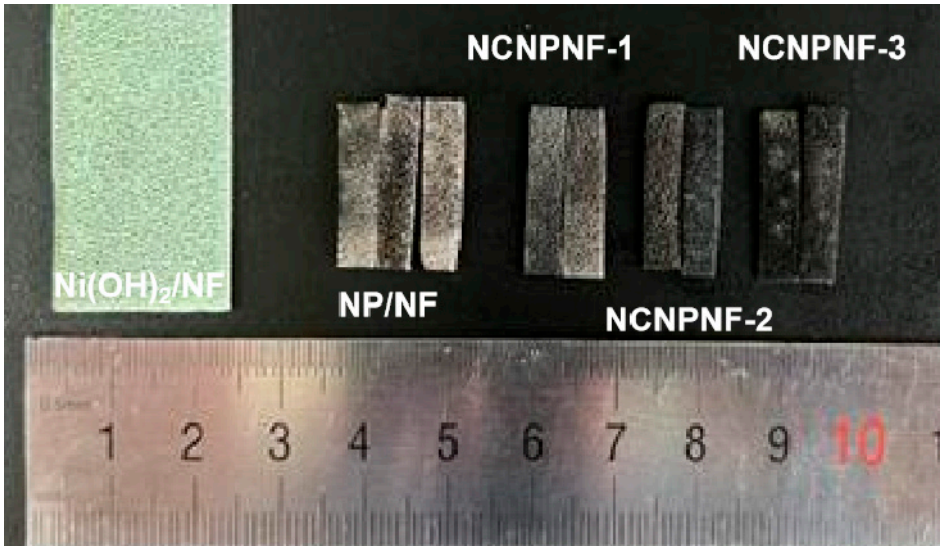


Figure S3. Digital photos of the resulting samples.