

Supporting Information

NiCo₂O₄ nanoframes with nanosheet surface as efficient electrocatalysts for oxygen evolution reaction

Zhen Chen,^{a, b} Bo Zhao,^a Ya-Chuan He,^{a, b} Hao-Ran Wen,^a Xian-Zhu Fu,^{*, a, c} Rong Sun,^{*, a} Ching-Ping Wong^{d, e}

^a Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen 518055, China.

^b Institute of Nano Science and Technology, University of Science and Technology of China, Suzhou 215123, China.

^c College of Materials Science and Engineering, Shenzhen University, Shenzhen 518055, China.

^d School of Materials Science and Engineering, Georgia Institute of Technology, Atlanta, GA 30332, United States.

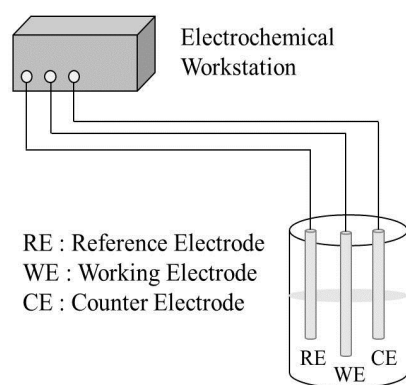
^e Department of Electronics Engineering, The Chinese University of Hong Kong, Hong Kong, China.

*Corresponding author:

Xian-Zhu Fu, E-mail address: xz.fu@szu.edu.cn;

Rong Sun, E-mail address: rong.sun@siat.ac.cn;

Tel: +86-755-86392151; Fax: +86-755-86392299



Scheme S1 Schematic representation of electrochemical characterization for OER.

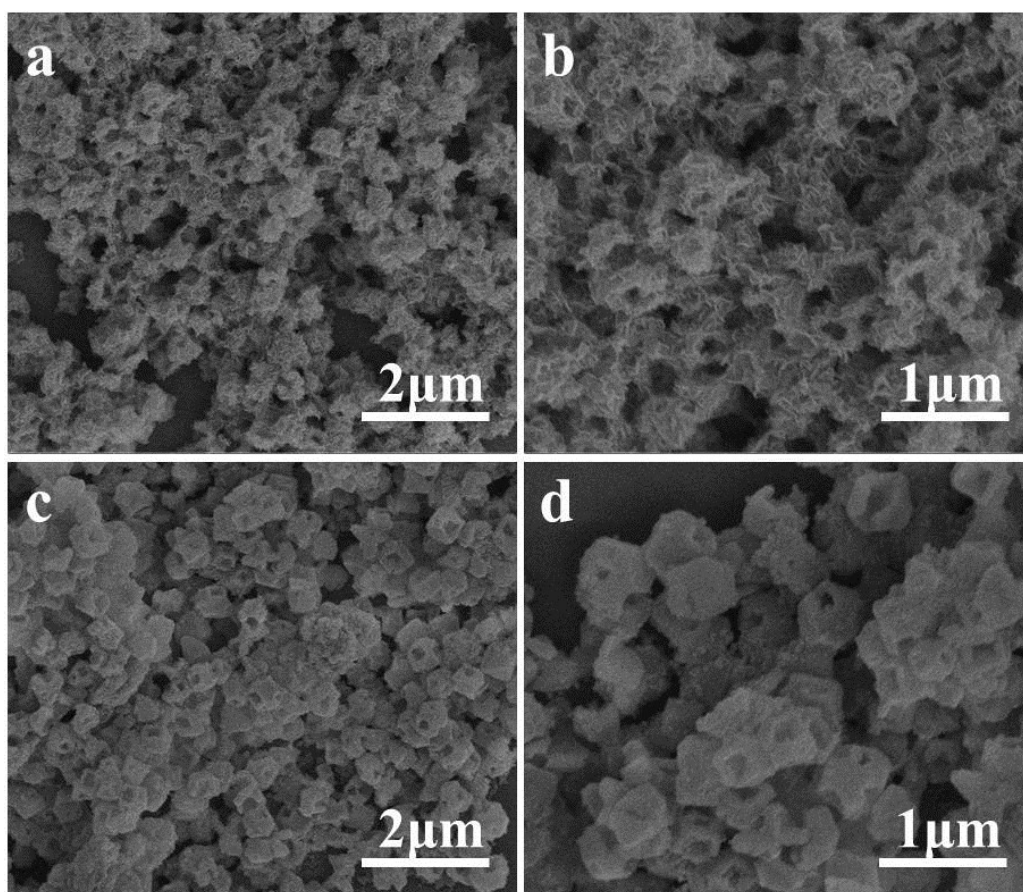


Fig. S1 SEM images of Co_3O_4 nanoframe (a-b) and NiO nanoframe (c-d).

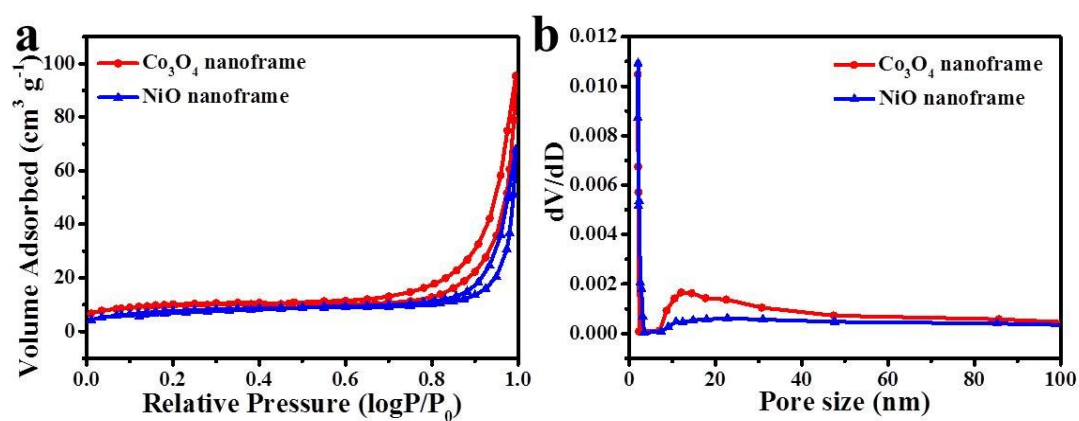


Fig. S2 N₂ adsorption-desorption isotherm (a) and corresponding pore size distribution (b) for Co₃O₄ nanoframe and NiO nanoframe.

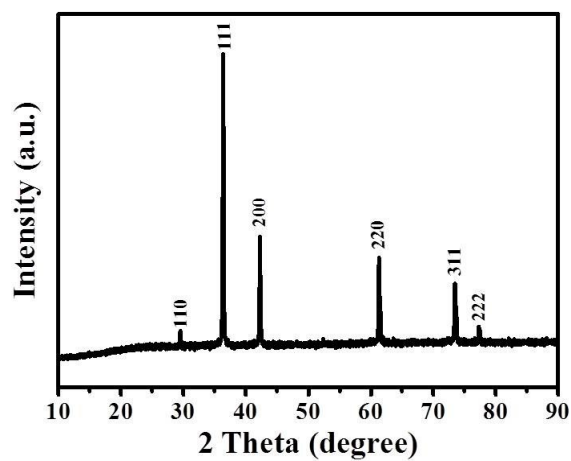


Fig. S3 XRD pattern of Cu₂O nanoframe.

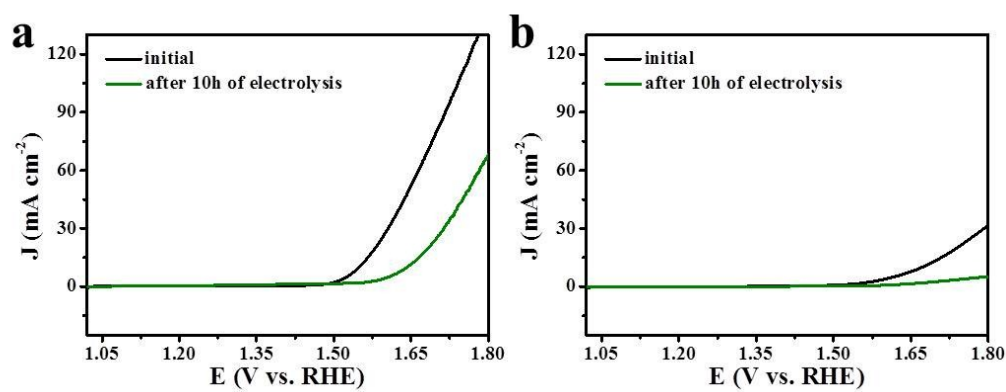


Fig. S4 LSV curves of Co₃O₄ nanoframe (a) and NiO nanoframe (b) before and after 10 h of stability tests in 1 M KOH.

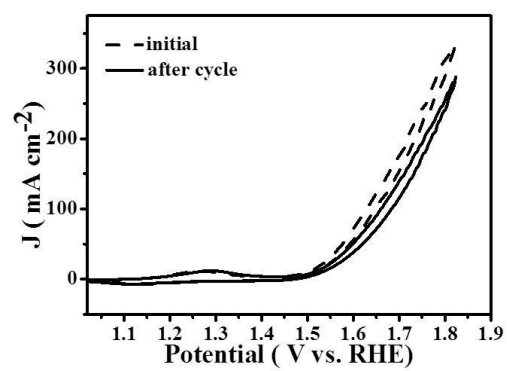


Fig. S5 Cyclic voltammetry curves of NiCo_2O_4 nanoframes before and after 50 CV cycles at a scan rate of 20 mV s^{-1} in 1 M KOH.