

Supplemental Information:

Fig.S1 the elemental mapping images from a single ZnO/ZnFe₂O₄ nanotube

Fig.S2 the IPCE plot in the range of 350–650 nm measured at 1.23 V vs RHE of ZnO and ZnO/ZnFe₂O₄

Fig.S3 Element distribution mapping of ZnO/ZnFe₂O₄/NiOOH

Fig.S4 the IPCE plot in the range of 350–650 nm measured at 1.23 V vs RHE of ZnO/ZnFe₂O₄ and ZnO/ZnFe₂O₄/NiOOH

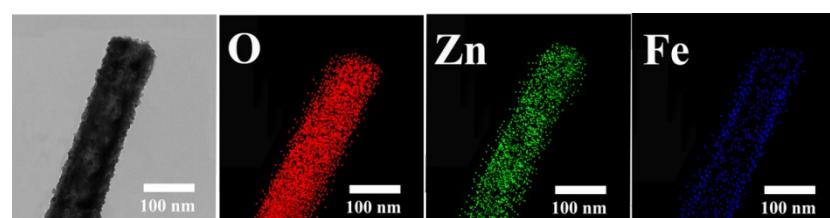


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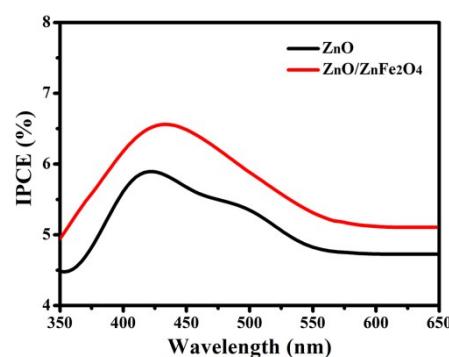


Fig.S2 the IPCE plot in the range of 350–650 nm measured at 1.23 V vs RHE of ZnO and ZnO/ZnFe₂O₄

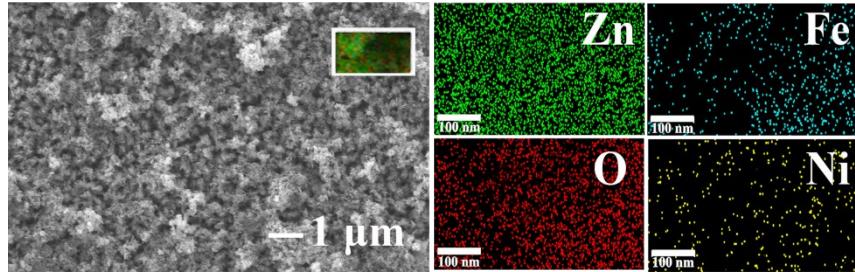


Fig.S3 Element distribution mapping of $\text{ZnO}/\text{ZnFe}_2\text{O}_4/\text{NiOOH}$

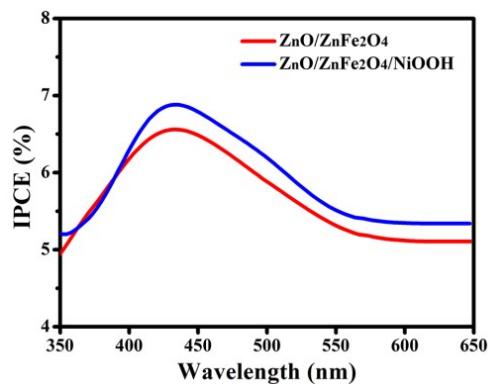


Fig.S4 the IPCE plot in the range of 350–650 nm measured at 1.23 V vs RHE of $\text{ZnO}/\text{ZnFe}_2\text{O}_4$ and $\text{ZnO}/\text{ZnFe}_2\text{O}_4/\text{NiOOH}$