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Supplemental Information:

Fig.S1 the elemental mapping images from a single $ZnO/ZnFe_2O_4$ nanotube Fig.S2 the IPCE plot in the range of 350–650 nm measured at 1.23 V vs RHE of ZnO and $ZnO/ZnFe_2O_4$ Fig.S3 Element distribution mapping of $ZnO/ZnFe_2O_4/NiOOH$

Fig.S4 the IPCE plot in the range of 350–650 nm measured at 1.23 V vs RHE of $ZnO/ZnFe_2O_4$ and $ZnO/ZnFe_2O_4/NiOOH$



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 $ZnO/ZnFe_2O_4$ and $ZnO/ZnFe_2O_4/NiOOH$