

Supporting Information

Zn-facilitated surface reconstruction of Ni-MOF for enhanced oxygen evolution reaction

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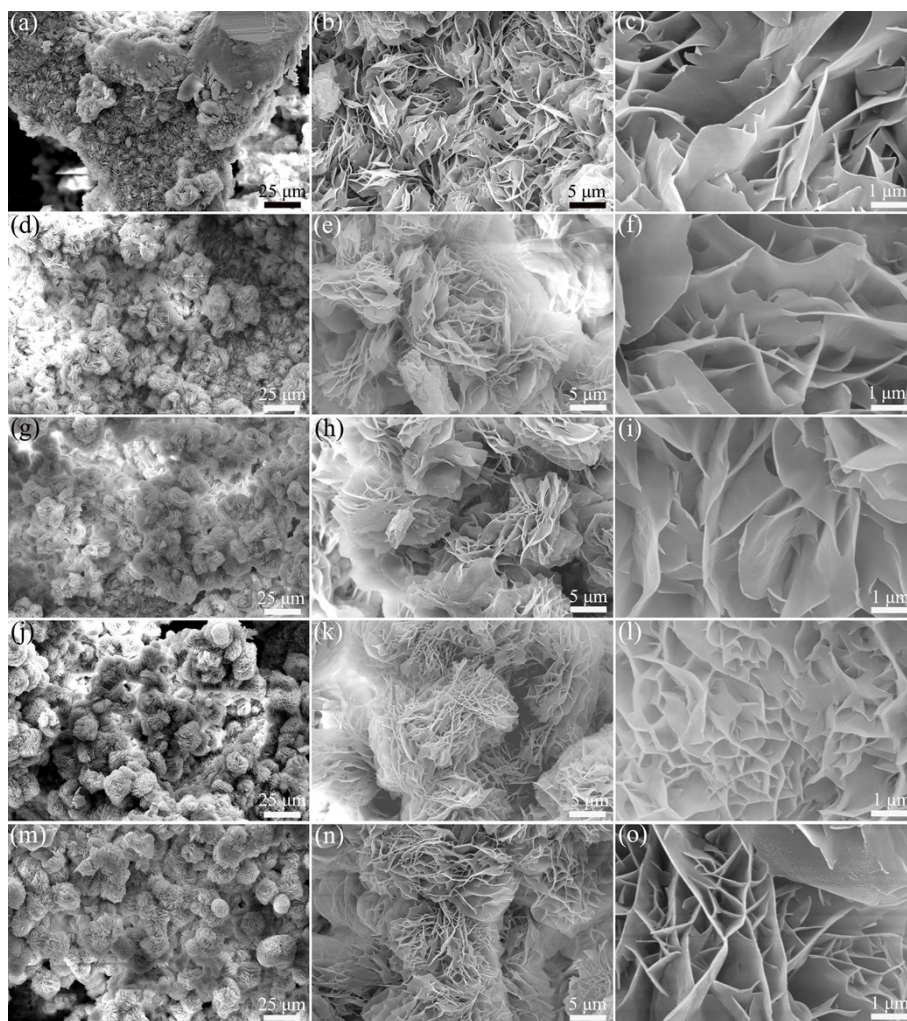


Fig. S1 SEM images of (a-c) $\text{Ni}_{10}\text{Zn-MOF/NF}$, (d-f) $\text{Ni}_3\text{Zn-MOF/NF}$, (g-i) $\text{Ni}_3\text{Zn}_2\text{-MOF/NF}$, (j-l) NiZn-MOF/NF , (m-o) Ni-MOF/NF .

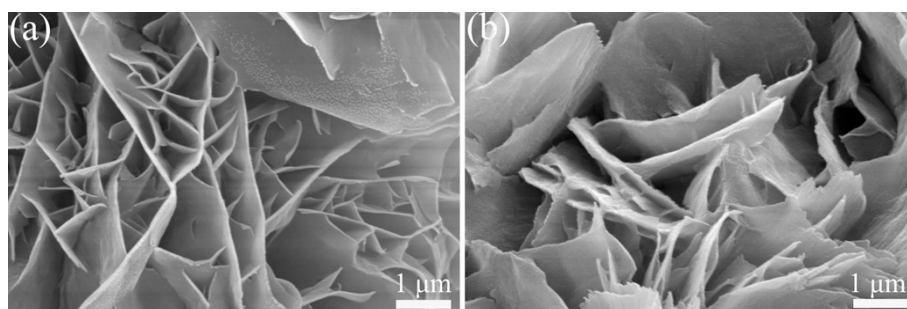


Fig. S2 SEM images of (a) Ni-MOF/NF , (b) Ni-MOF/NF-OH .

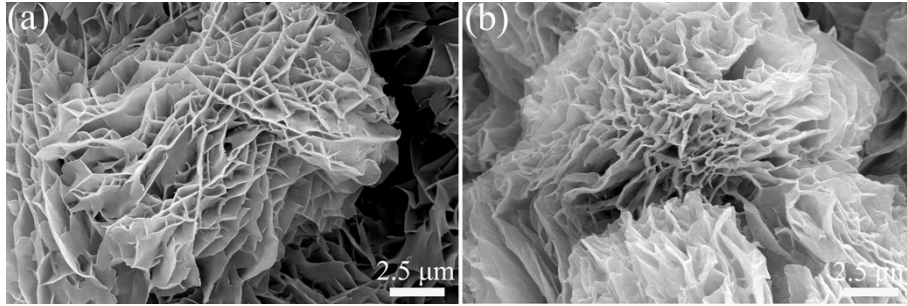


Fig. S3 SEM images of (a) NiZn-MOF/NF, (b) NiZn-MOF/NF-OH.

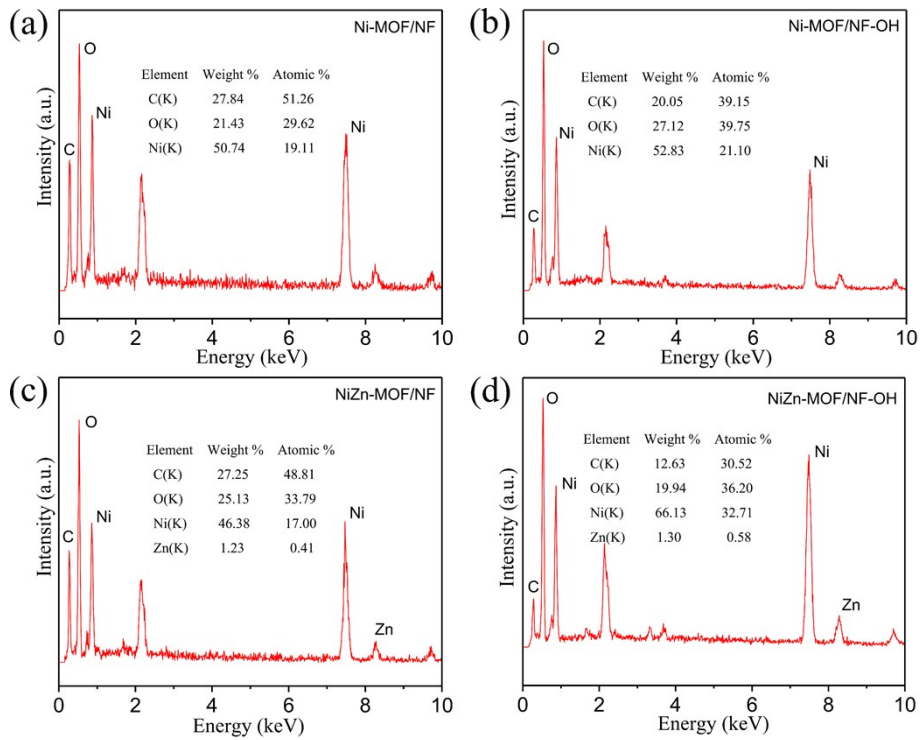


Fig. S4 SEM-EDX spectra of (a) Ni-MOF/NF, (b) Ni-MOF/NF-OH, (c) NiZn-MOF/NF, (d) NiZn-MOF/NF-OH.

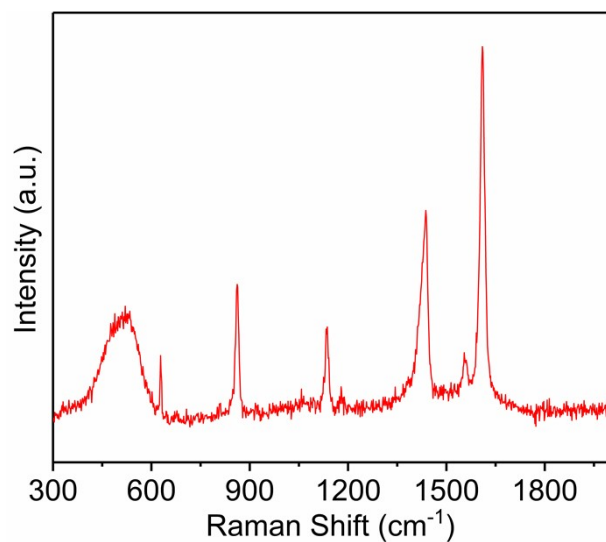


Fig. S5 Raman spectrum of NiZn-MOF/NF-OH.

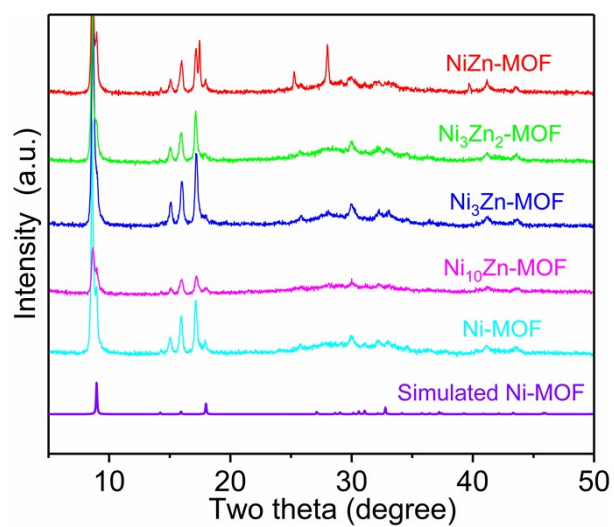


Fig. S6 XRD patterns of NiZn-MOF, Ni₃Zn₂-MOF, Ni₃Zn-MOF, Ni₁₀Zn-MOF and Ni-MOF powder.

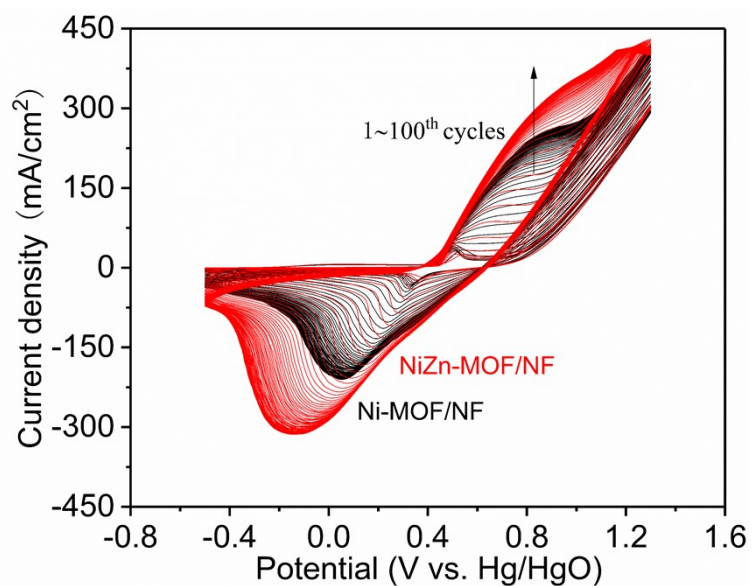


Fig. S7 The evolution of CV curves for Ni-MOF/NF (black curve) and NiZn-MOF/NF (red curve).

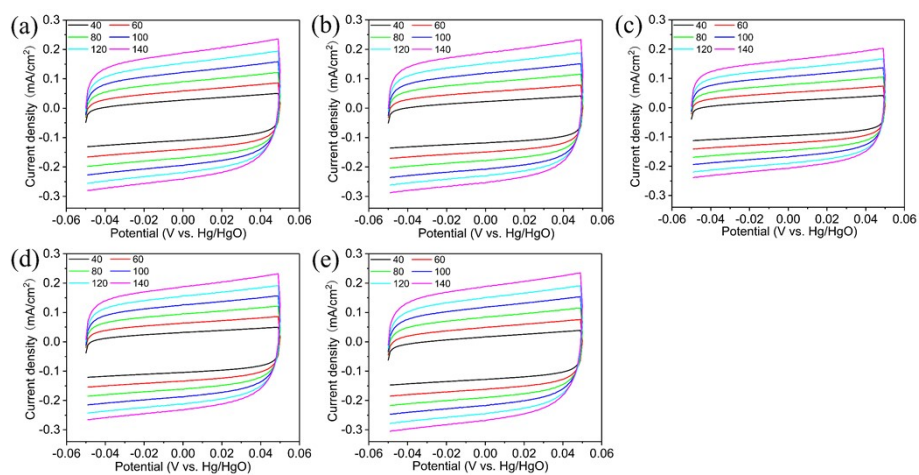


Fig. S8 CV curves of (a) Ni-MOF/OH, (b) Ni₁₀Zn-MOF/NF-OH, (c) Ni₃Zn-MOF/NF-OH, (d) Ni₃Zn₂-MOF/NF-OH and (e) NiZn-MOF/NF-OH at different scan rates in the potential range of -0.05–0.05 V vs Hg/HgO.

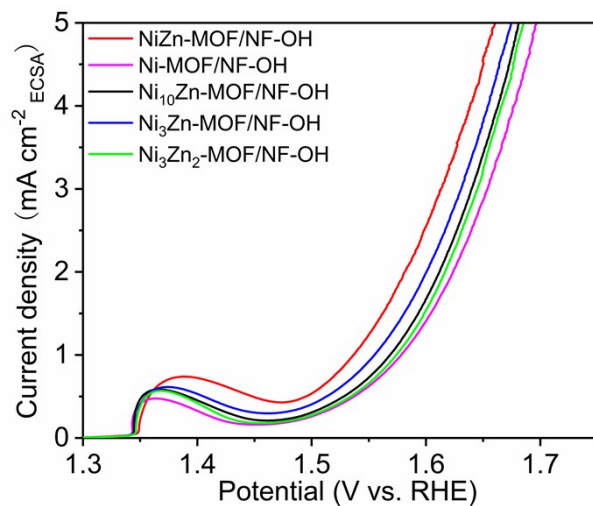


Fig. S9 ECSA-normalized polarization curves for NiZn-MOF/NF-OH, Ni-MOF/NF-OH, Ni₁₀Zn-MOF/NF-OH, Ni₃Zn₂-MOF/NF-OH, and Ni₃Zn-MOF/NF-OH.

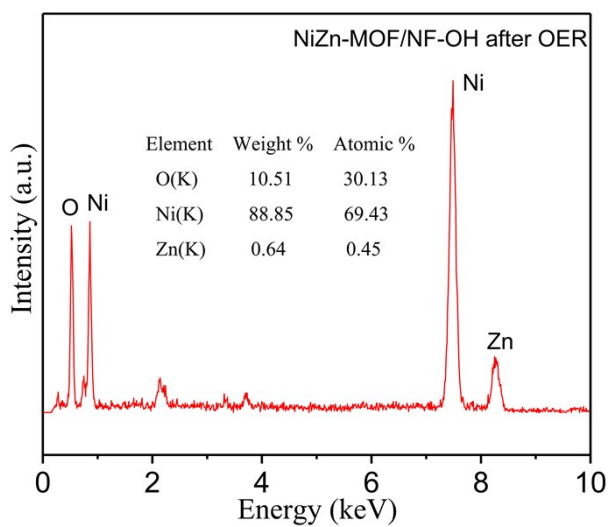


Fig. S10 SEM-EDX spectrum of NiZn-MOF/NF-OH after stability test.

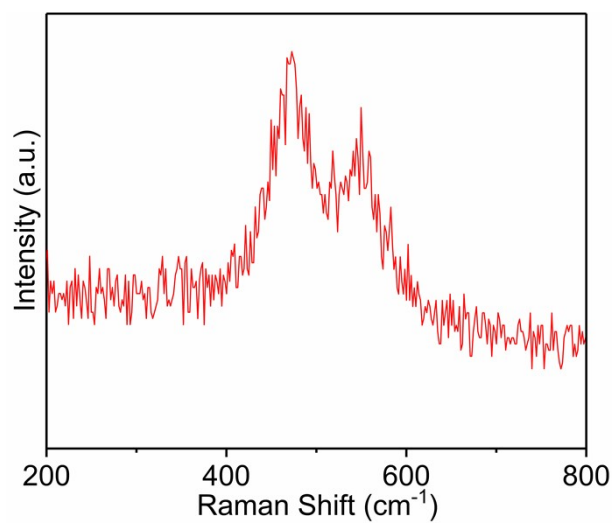


Fig. S11 Raman spectrum of NiZn-MOF/NF-OH after stability test.