

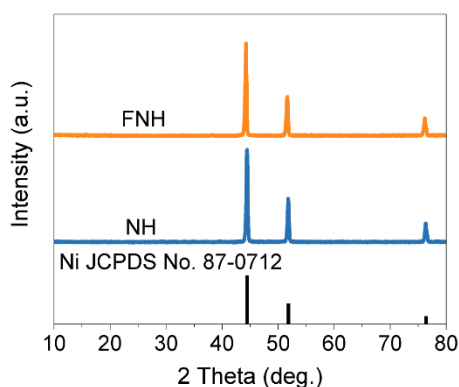
# Construction of NiFe-Layered Double Hydroxides Arrays as Robust Electrocatalyst for Oxygen Evolution Reaction

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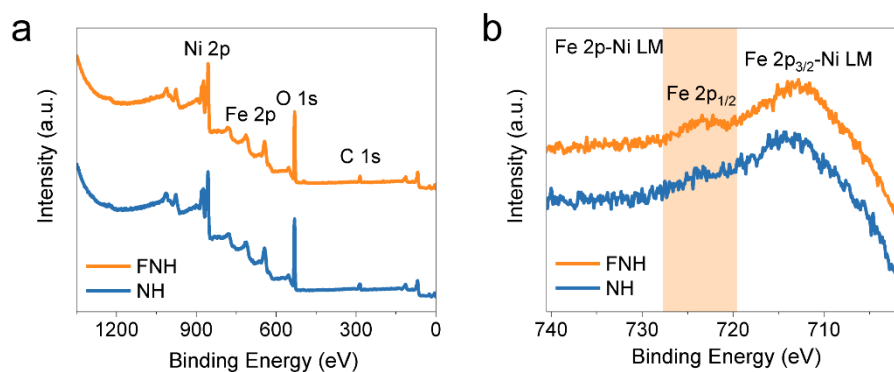
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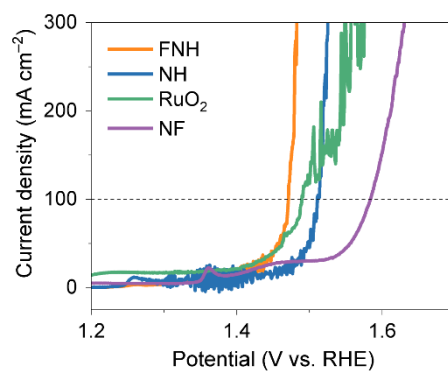
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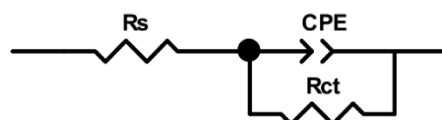
**Figure S1.** XRD patterns NH and FNH catalyst on NF substrate.



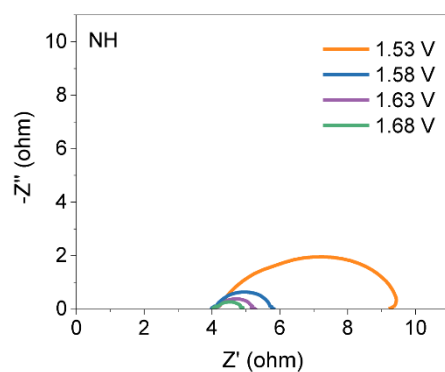
**Figure S2.** (a) XPS survey spectra and (b) Fe 2p-Ni LM spectra of NH and FNH on NF substrate.



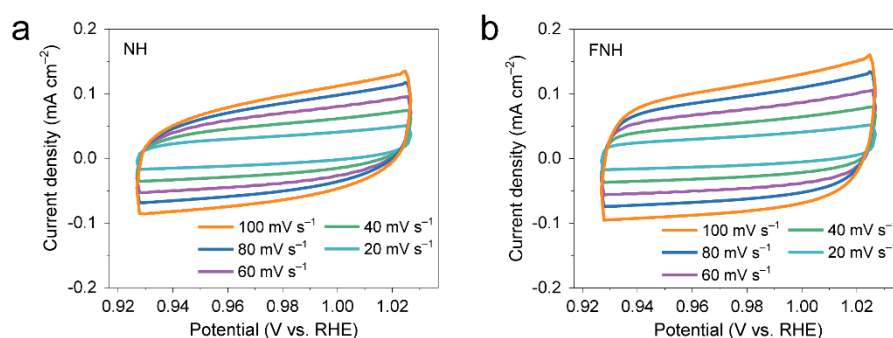
**Figure S3.** LSV polarization curves at 5 mV s<sup>-1</sup> with iR-correction of the as-prepared catalysts.



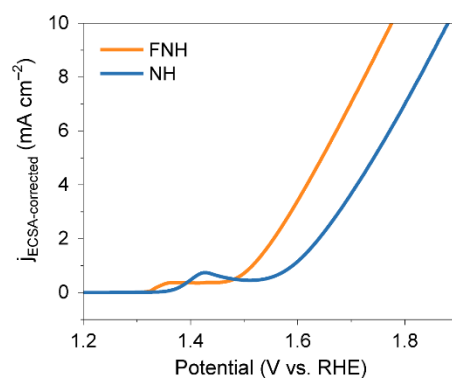
**Figure S4.** The equivalent circuit for modeling the measured electrochemical response.



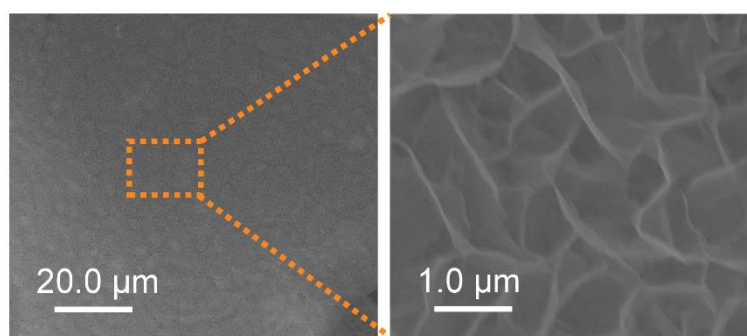
**Figure S5.** Nyquist plots of NH at different applied potentials.



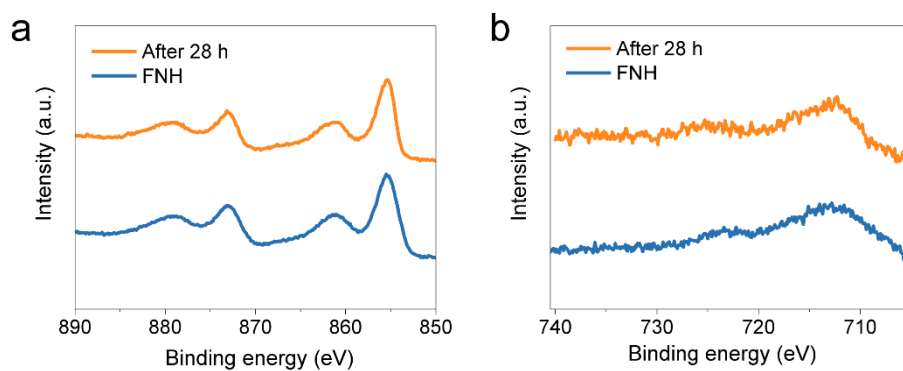
**Figure S6.** The CV curves of NH and FNH at the scan rates of 20-100 mV s<sup>-1</sup>.



**Figure S7.** The ECSA-corrected LSV curves of NH and FNH catalysts.



**Figure S8.** SEM images of FNH catalyst after continuous operation for 28 h.



**Figure S9.** (a) Ni 2p and (b) Fe 2p-Ni LM spectra of FNH catalyst before and after continuous operation for 28 h.