

MIL-88A Derived CoFe-Layered Double Hydroxide with Optimized Composition for the Enhanced Electrocatalytic Oxygen Evolution Reaction

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Table of Contents

| | |
|---|---|
| Figure S1. XRD patterns of CoFe-LDH_1, CoFe-LDH_2, CoFe-LDH_4, and CoFe-LDH_5..... | 2 |
| Figure S2. CV curves of MIL-88A and CoFe-LDHs in the nonfaradaic potential window..... | 3 |
| Figure S3. ECSA-normalized LSV curves | 4 |
| Figure S4. Post-electrolysis FE-SEM images of CoFe-LDH_3 | 4 |

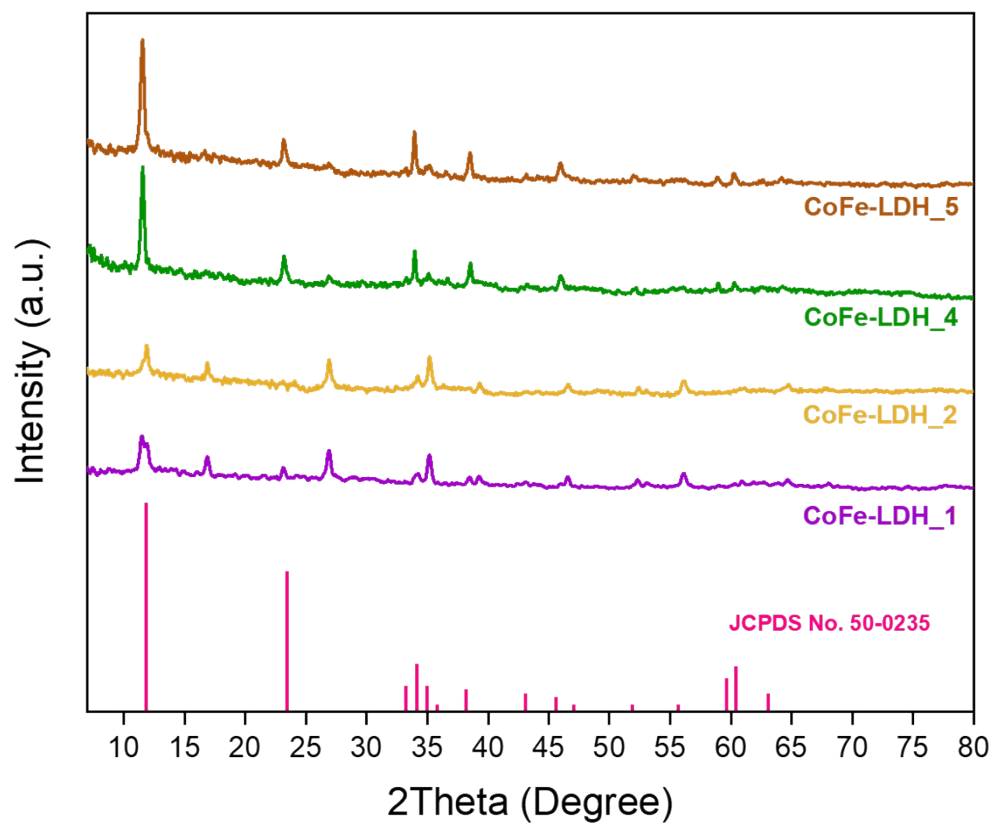


Figure S1. XRD patterns of the as-synthesized CoFe-LDH_1, CoFe-LDH_2, CoFe-LDH_4, and CoFe-LDH_5.

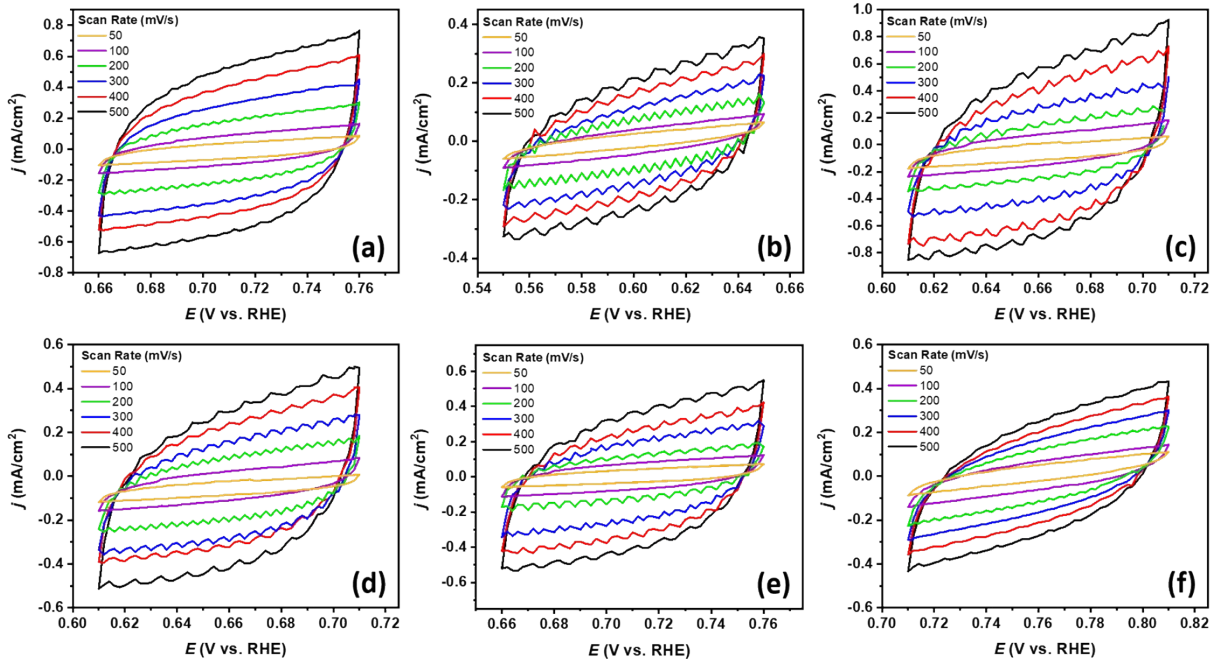


Figure S2. CV curves of (a) CoFe-LDH_1, (b) CoFe-LDH_2, (c) CoFe-LDH_3, (d) CoFe-LDH_4, (e) CoFe-LDH_5, and (f) MIL88-A obtained in the nonfaradaic potential window at different scan rates in 1.0 M KOH.

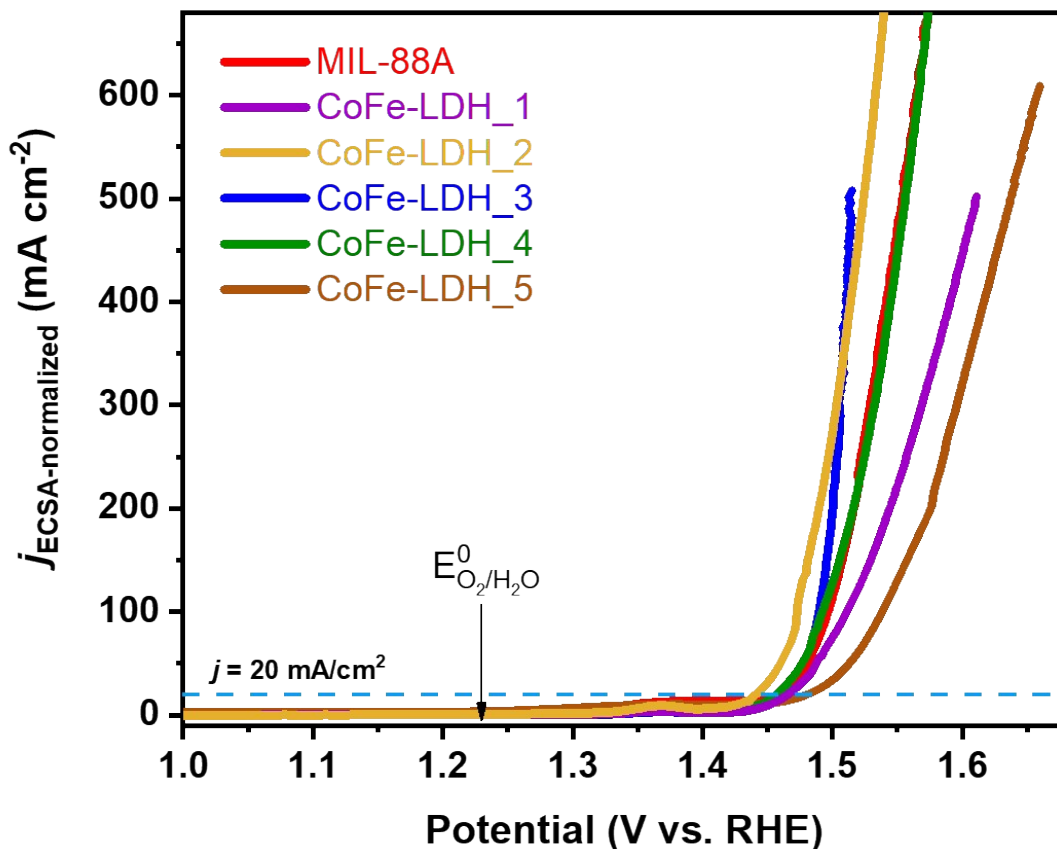


Figure S3. ECSA-normalized LSV curves of CoFe-LDH_1, CoFe-LDH_2, CoFe-LDH_3, CoFe-LDH_4, CoFe-LDH_5, and MIL-88A calculated according to the data of Figures 5a and 7.

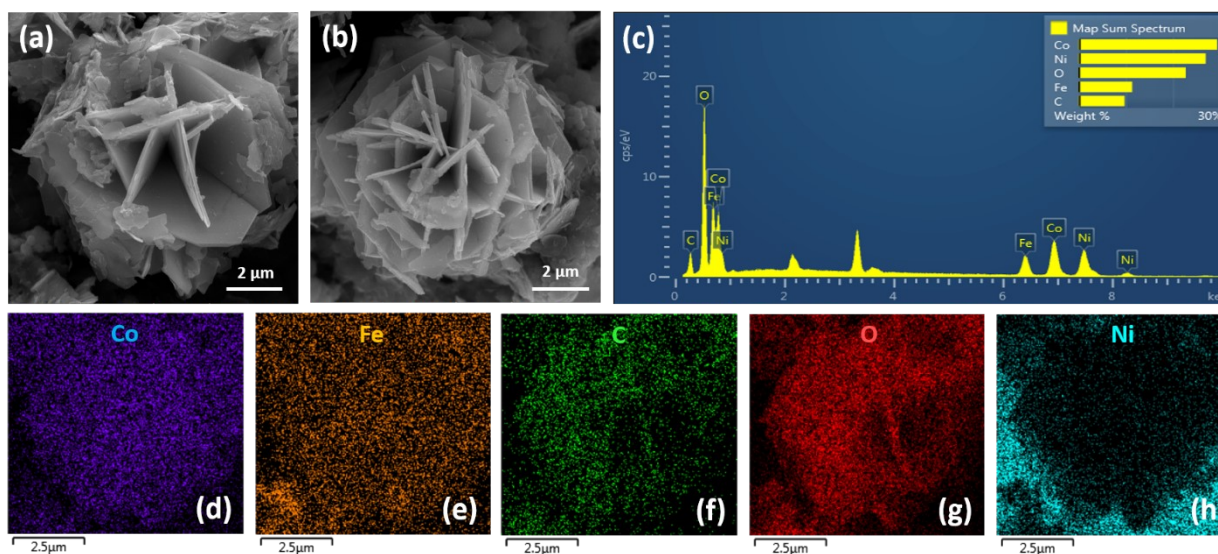


Figure S4. FESEM images (a, b), EDX spectrum (c), and elemental mapping images (d-h) of the CoFe-LDH_3/NF after 10 h of electrolysis in 1.0 M KOH solution at the constant potential of 1.47 V (vs. RHE). The EDX spectrum and elemental mapping images correspond to the SEM image of the panel (a).