

Synergistic effect of composition gradient and morphology on catalytic activity of amorphous FeCoNi-LDH

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Table S1. Summary of the OER performance of the as-prepared Fe-Co-Ni-LDH with another reported LDH-based electrocatalysts.

Catalyst	Current density /mA cm ⁻²	Overpotential vs. RHE/mV	Electrolyte	Tafel slope /mV dec ⁻¹	Reference
Fe-Co-Ni-LDH	50	246	1.0 M KOH	77.8	This work
Cu3P@CoFe-LDH/CF	100	293	1.0 M KOH	45.08	ACS Appl. Energy Mater., 2023, 6, 5548–5557
Ni-NCN/CoFe-LDH	10	280	1.0 M KOH	42	J. Colloid Inter. Sci., 2023, 150, 816-824
FeCoNi LDH/CuO/Cu	50	243	1.0 M KOH	63.8	J. Mater. Chem. A, 2022,10(22):11938-11947.
NiFe-LDH@NiFeBi/CC	50	294	1.0 M KOH	96	Chem. Eur., 2017, 23, 11499-11503
NiFe LDHs	50	348	1.0 M KOH	67	Nat. Commun., 2020, 11, 2522
NiCo2O4@NiFe LDH/NF	50	290	1.0 M KOH	53	ACS Appl. Mater. Interfaces, 2017, 9, 1488-1495
Graphdiyne@NiFe LDH composite	10	260	1.0 M KOH	95	ACS Appl. Mater. Interfaces, 2019, 11, 2662-2669
Ni-Fe LDH hollow nanoprism	10	280	1.0 M KOH	49.4	Angew. Chem. Int. Ed. Engl., 2018, 57, 172-176
Rh-doped CoFe-ZLDH	100	245	1.0 M KOH	-	Adv. Funct. Mater., 2020, 30, 2003556
CoNiFe-LDH	10	257	1.0 M KOH	56.8	Adv. Funct. Mater., 2023, 2300808
Co@NiFe-LDH	10	253	1.0 M KOH	44	J. Mater. Chem. A, 2022,10, 5244-5254
V-Ni3S2@CoFe-LDH	50	240	1.0 M KOH	26.8	Int. J. Hydrogen Energ., 2021, 46, 39636-39644.