

Supporting Information

Hydrogen-Etched CoS_2 to Produce $\text{Co}_9\text{S}_8@\text{CoS}_2$ Heterostructure Electrocatalyst for Highly Efficient Oxygen Evolution Reaction

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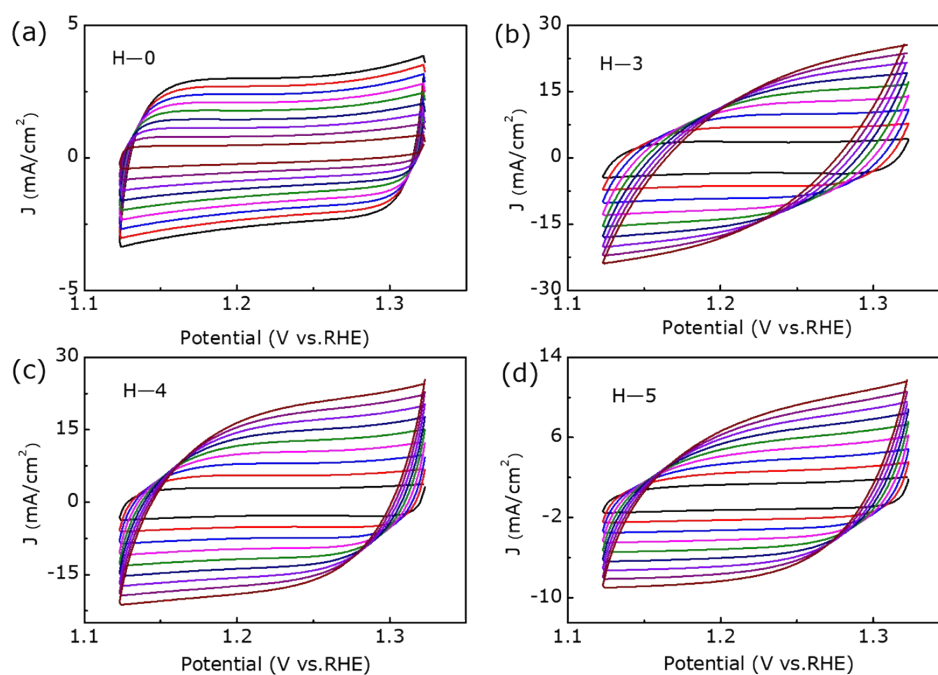


Fig S1. the cyclic voltammetry (CV) curve of (a) H-0, (b) H-3, (c) H-4 and (d) H-5.

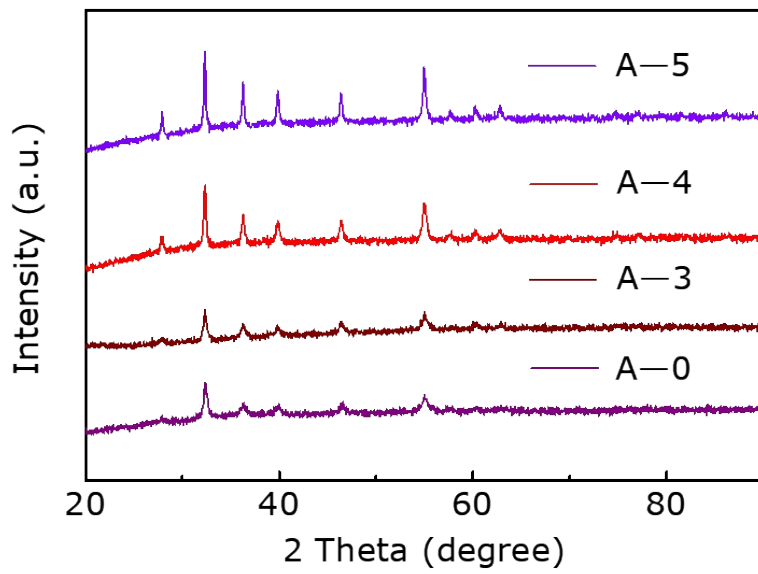


Fig S2. XRD patterns of A-0, A-3, A-4 and A-5.

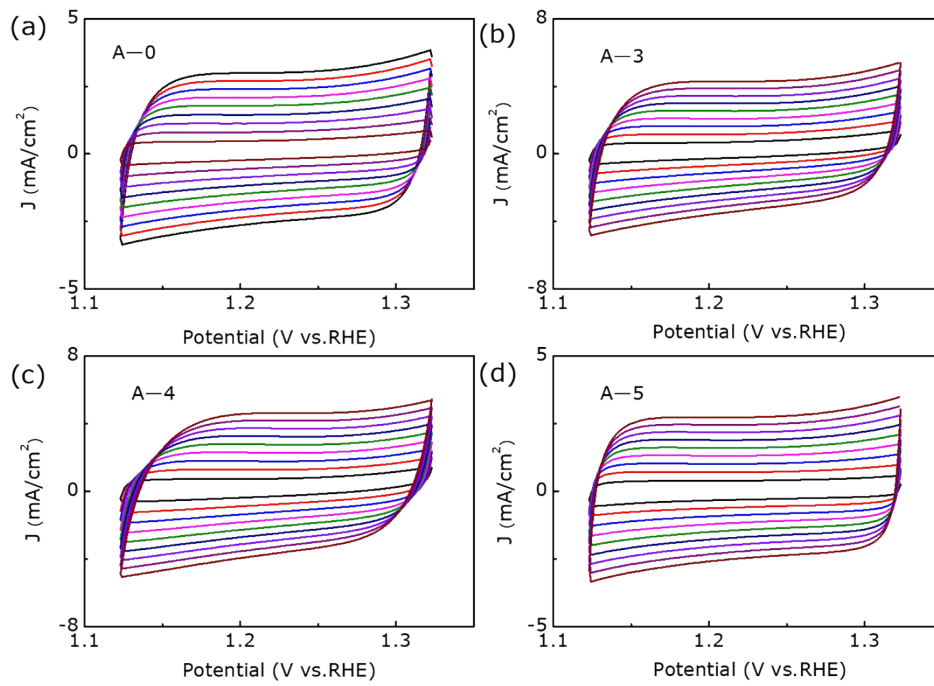


Fig S3. the cyclic voltammetry (CV) curve of (a) A-0, (b) A-3, (c) A-4 and (d) A-5.

Table S1. Comparison of electrocatalytic performance of Co₉S₈-CoS₂ with existing OER catalysts.

Catalyst	Electrolyte	j (mA cm ⁻²)	□η ₁ (mV)	Reference
Co₉S₈@CoS₂	1 M KOH	50	396	This work
CoP-N/Co foam	1 M KOH	50	260	1
S-NiCoFe	1 M KOH	100	258	2
Co ₃ O ₄ @GF_O ₃	1 M KOH	10	450	3
Co ₃ O ₄ nanocubes/graphene	1 M KOH	10	400	4
Co ₉ S ₈ /G	0.1 M KOH	10	441	5
Co@Co ₃ O ₄ /NC	0.1 M KOH	10	410	6
Ni _{0.3} Co _{0.7} O	1 M KOH	10	450	7
Ni-Co-S/CF	1 M KOH	100	363	8

Reference

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