

Supplementary information

Ni/NiO/C hollow microspheres fabricated by Mist-CVD process with assistance of ethanolamine: An efficient OER catalyst

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Supplementary Figures and Table

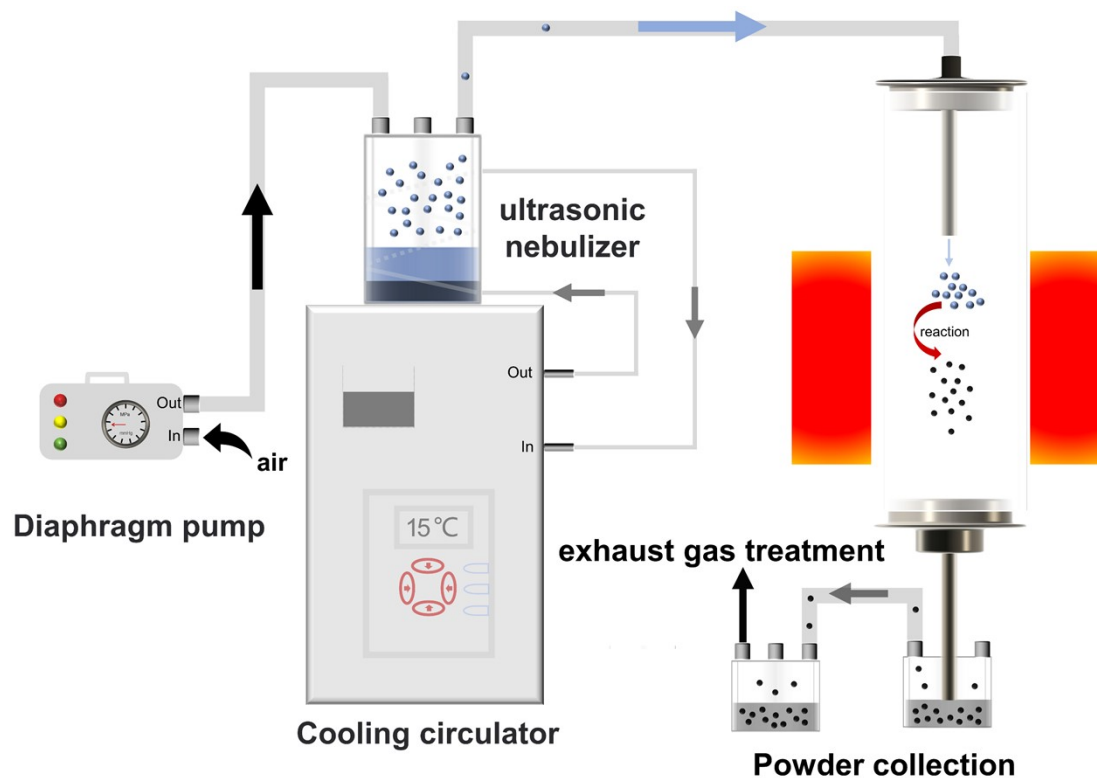


Fig. S1 The schematic illustration of Mist-CVD for the fabrication of electrocatalysts.

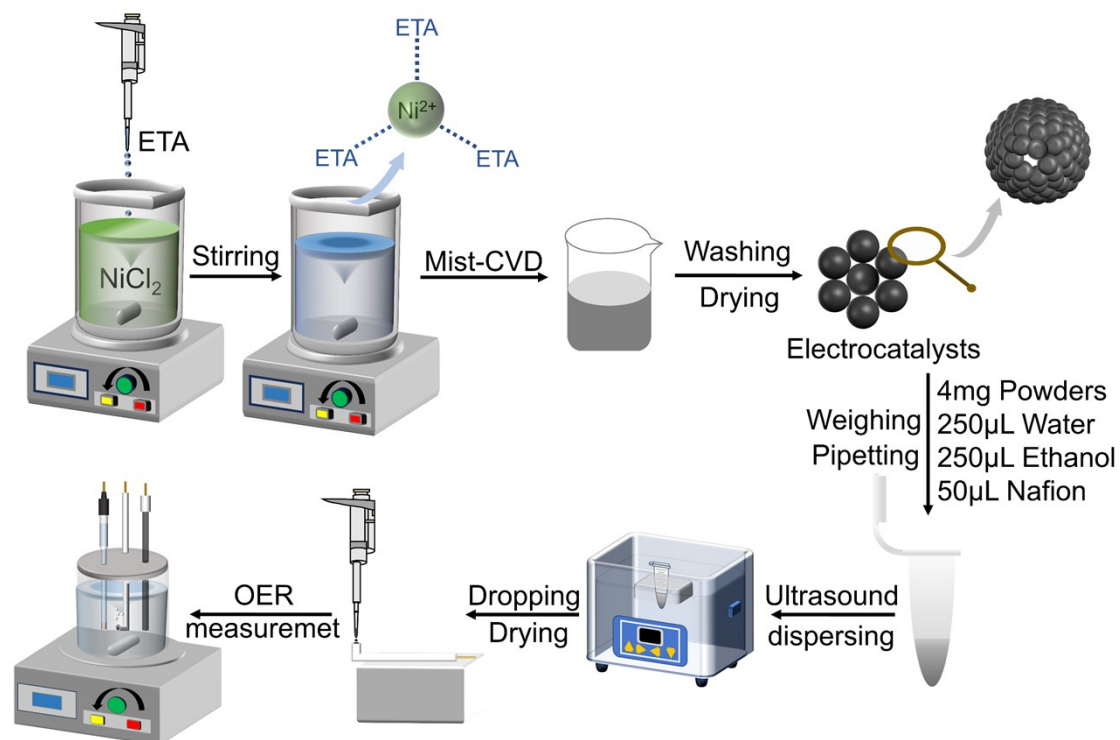


Fig. S2 Flowchart of fabrication and OER measurement of electrocatalysts.

Table S1 Parameters of OER performance of the electrocatalysts.

Sample	η_{10} (mV)	Tafel slope (mV dec ⁻¹)	C_{dl} ($\mu\text{F cm}^{-2}$)	ECSA (cm ⁻²)	R_{ct} (Ω)	TOF (S ⁻¹)
Ni-400	386.0	117.0	223.2	5.58	1.08	0.0022
Ni-600	286.4	54.8	277.0	6.93	0.23	0.0492
Ni-800	350.7	89.3	246.7	6.17	0.37	0.0039
Ni-1000	382.5	91.5	231.8	5.80	0.84	0.0014
RuO ₂	121.7	122.7	471.9	11.80	60.76	0.0382

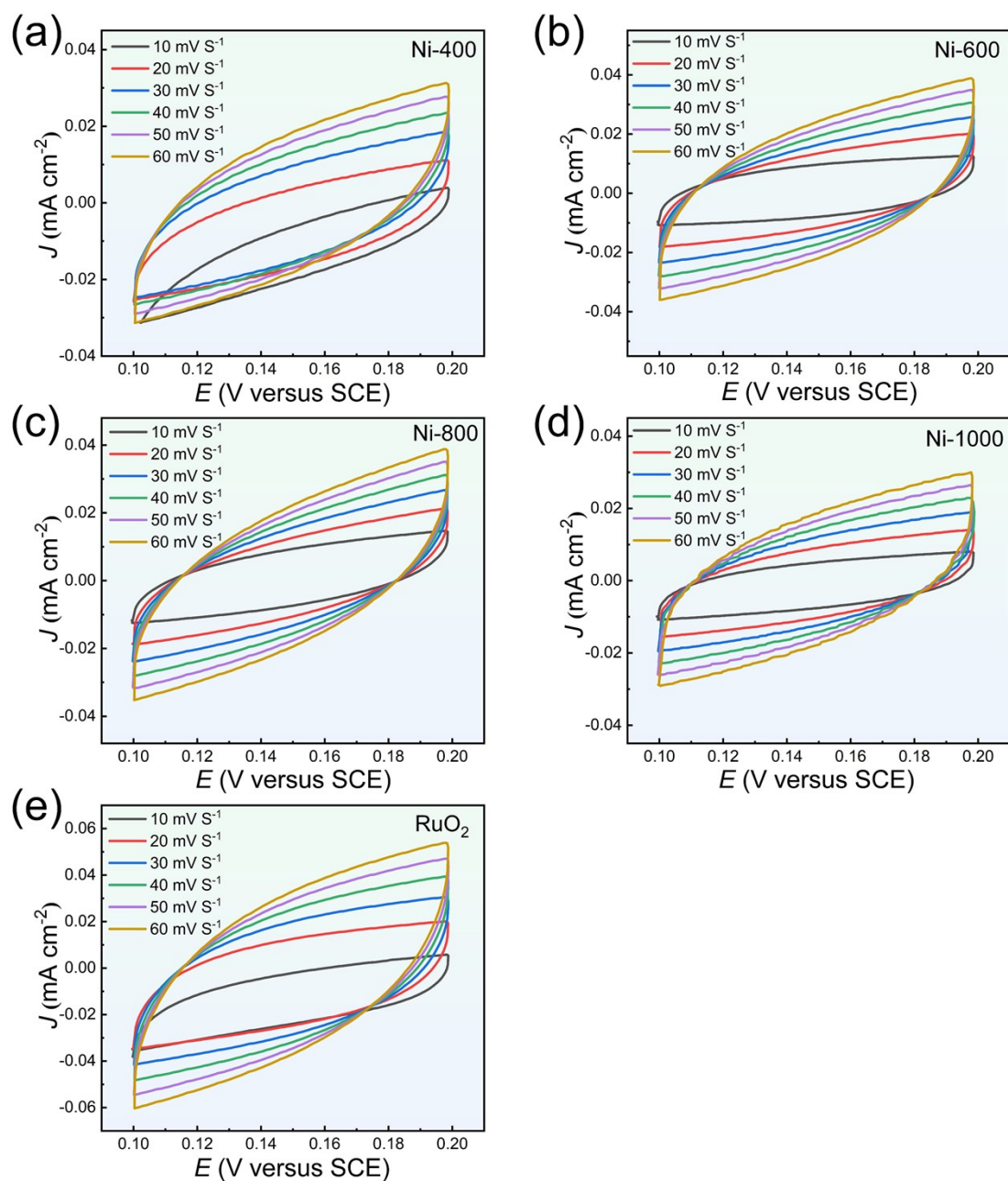


Fig. S3 CV curves of the as-prepared electrocatalysts at different scan rates without the Faradaic process.