

Supporting Information for

Three-dimensional NiMoO₄@CoWO₄ core-shell nanorod arrays for electrochemical energy storage application

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Table S1: Comparison of the capacity results of NiMoO₄@CoWO₄, NiMoO₄ and CoWO₄

Samples	5 mA cm ⁻²	6 mA cm ⁻²	7 mA cm ⁻²	8 mA cm ⁻²	9 mA cm ⁻²	10 mA cm ⁻²	20 mA cm ⁻²	30 mA cm ⁻²
NiMoO ₄ @ CoWO ₄	0.61	0.60	0.58	0.56	0.55	0.53	0.42	0.35
NiMoO ₄	0.40	0.35	0.32	0.29	0.27	0.25	0.19	0.16
CoWO ₄	0.18	0.17	0.16	0.15	0.14	0.13	0.11	0.10

Table S2: Summary of EIS data fitted

Samples	R _s (ohm)	R _{ct} (ohm)	W
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NiMoO₄@ CoWO₄	0.63	1.15	0.11
NiMoO₄	1.62	0.55	5.61
CoWO₄	1.76	1.02	19.2

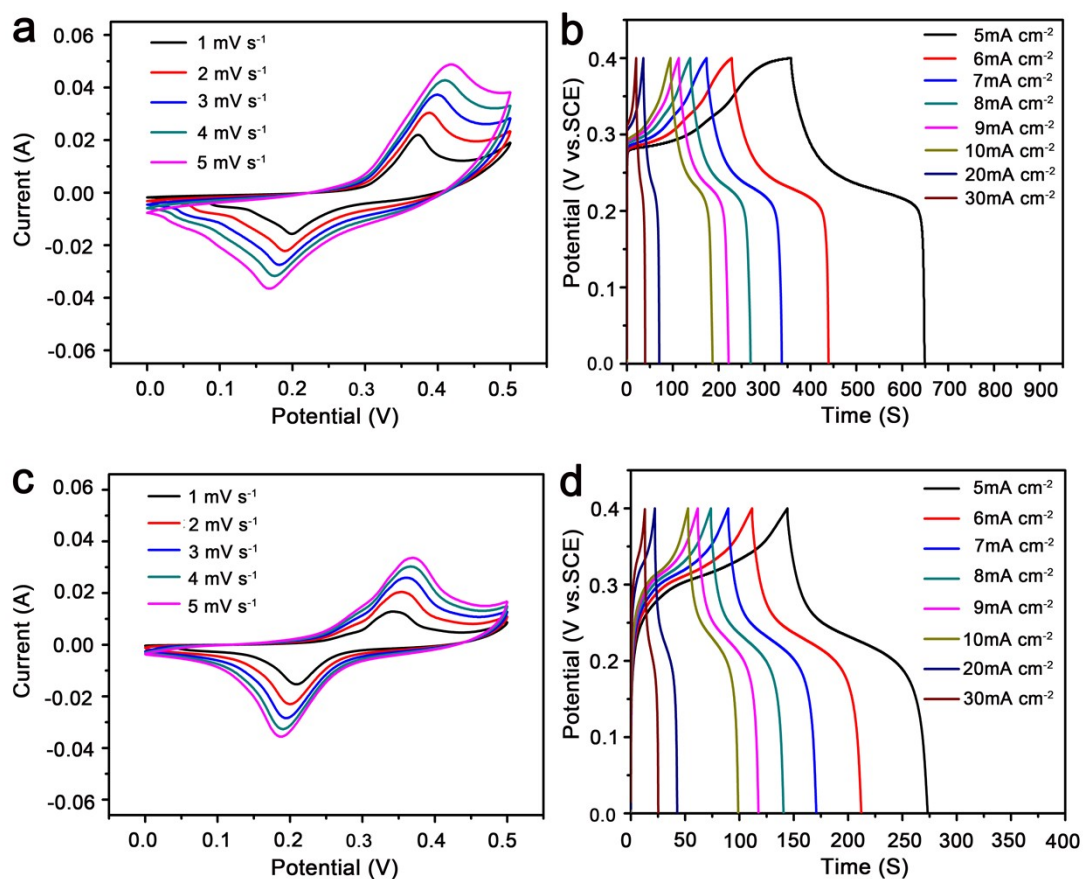


Fig. S1. (a) CV curves of the NiMoO₄ electrode at various scan rates. (b) CD curves of the NiMoO₄ electrode at different current densities. (c) CV curves of the CoWO₄ electrode at various scan rates. (d) CD curves of the CoWO₄ electrode at different current densities.

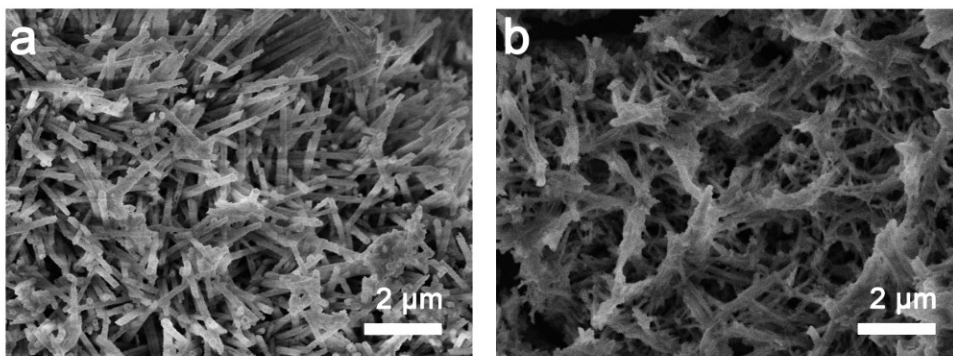


Fig. S2 (a) SEM images of NiMoO₄@CoWO₄ after long cycle. (b) SEM images of NiMoO₄ after long cycle.

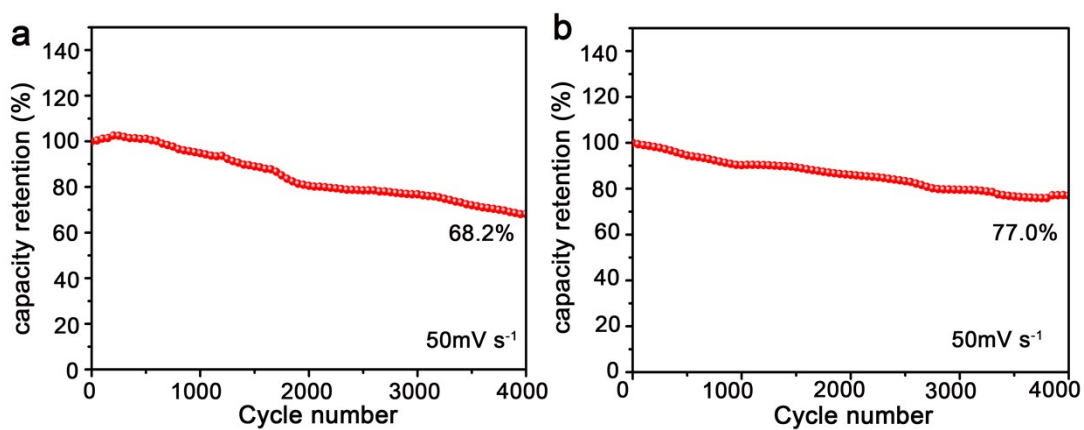


Fig. S3 (a) Cycling performance of the NiMoO₄ electrode at 50 mV s⁻¹. (b) Cycling performance of the CoWO₄ electrode at 50 mV s⁻¹.

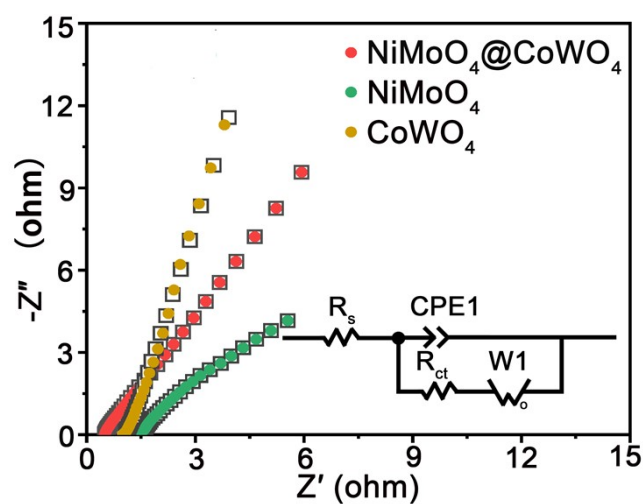


Fig. S4 Nyquist plots and the fitting results of the as-prepared composites.

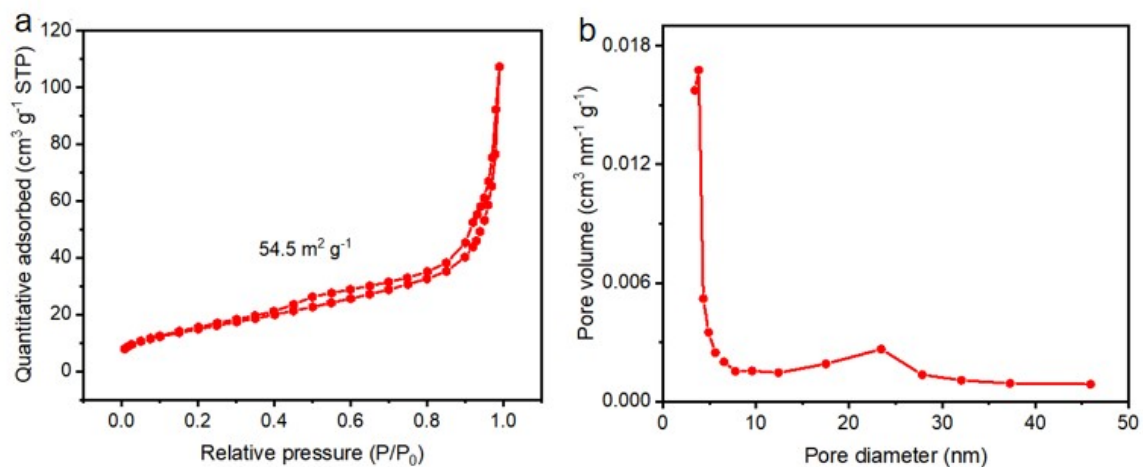


Fig. S5 (a) N_2 adsorption/desorption isotherm and (b) pore-size distribution curve of the $\text{NiMoO}_4@ \text{CoWO}_4$ sample.