

Electronic Supporting Information

One-step dissolution-precipitation route synthesis of the multidimensional hierarchical Ni₃S₂ for aqueous asymmetric supercapacitors

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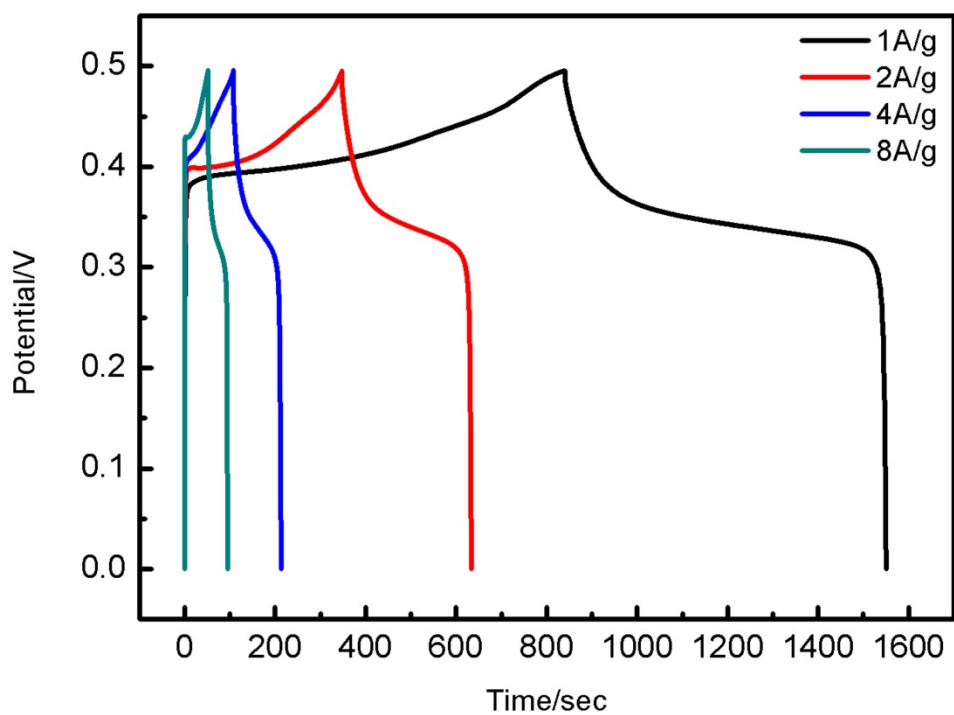


Fig. S1: charge-discharge curves of nanorods Ni_3S_2 arrays at different current densities.

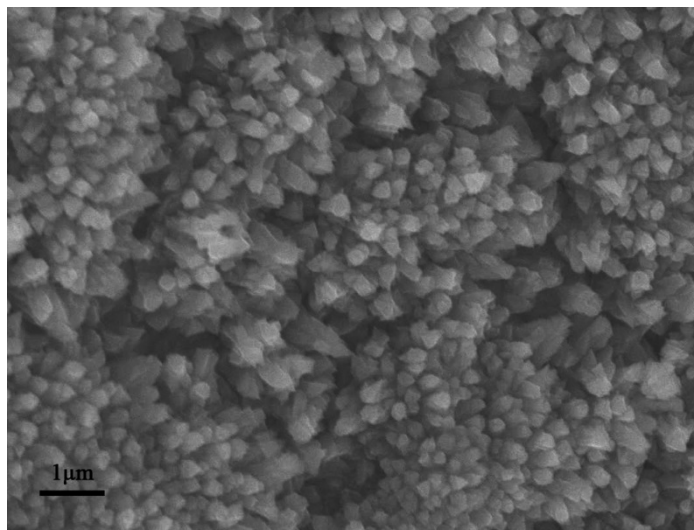


Fig. S2: SEM image of the mushroom-like Ni₃S₂ electrode after 5000 cycles.

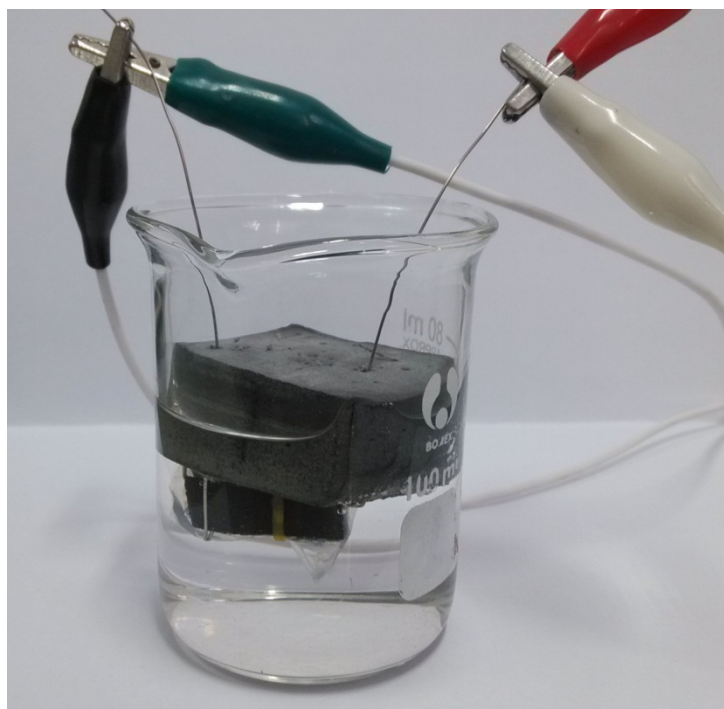


Fig.S3: the photography of the asymmetric supercapacitor.

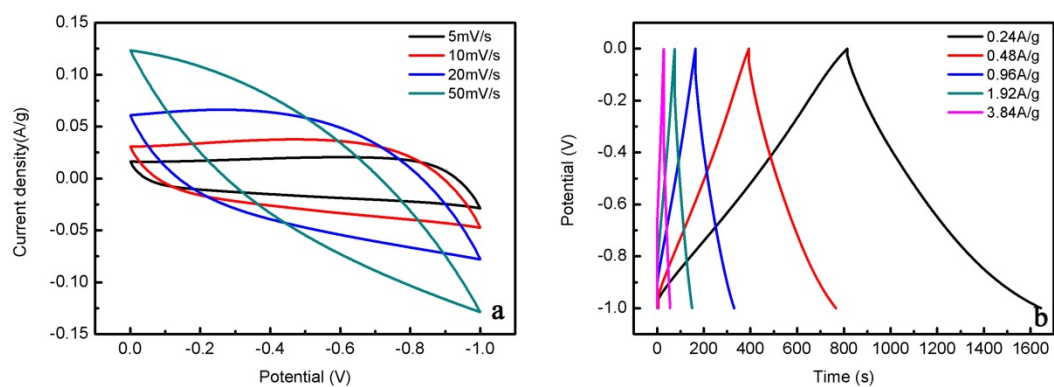


Fig. S4: (a) CV curves of AC electrode at different scan rate, (b) charge-discharge curves of AC electrode at different current densities.

	$R_s(\Omega)$	$C_{DL}(F)$	$R_{ct}(\Omega)$	$Z_w(\Omega)$	$C_L(F)$
Nanorods Ni_3S_2	1.299	0.01273	3.803	4.122	0.4402
Mushroom-like Ni_3S_2	0.9745	0.01698	3.121	2.763	0.449

Table S1. Calculated Values of R_s , C_{DL} , R_{ct} , Z_w and C_L through CNLS Fitting of the Experimental Impedance Spectra Based on the Proposed Equivalent Circuit in Figure 6.