Supporting Information

MOF-derived self-sacrificing route to hollow NiS₂/ZnS nanospheres for high performance supercapacitors

Guo-Chang Li,¹ Minmin Liu,² Meng-Ke Wu,¹ Peng-Fei Liu,¹ Ziwei Zhou,² Shuai-Ru

Zhu,¹ Rui Liu,*² and Lei Han*^{1,3}

¹ State Key Laboratory Base of Novel Functional Materials and Preparation Science, School of Materials Science & Chemical Engineering, Ningbo University, Ningbo, Zhejiang 315211, China
² Ministry of Education Key Laboratory of Advanced Civil Engineering Material, College of Materials Science and Engineering, and Institute for Advanced Study, Tongji University, Shanghai 201804, China

³ Key Laboratory of Photoelectric Materials and Devices of Zhejiang Province, Ningbo University, Ningbo, Zhejiang 315211, China



Figure S1. FT-IR spectrum (a) and XRD pattern (b) of the Ni/Zn-BDC MOF spheres.



Figure S2. EDS pattern of the Ni/Zn-BDC MOF spheres.



Figure S3. XRD (a) and XPS (b-c) patterns of the NiS₂/ZnS hollow nanospheres



Figure S4. EDS pattern of the NiS₂/ZnS hollow nanospheres.



Figure S5. N_2 adsorption-desorption isotherms and pore size distribution (inset) of the NiS_2/ZnS hollow nanospheres.



Figure S6. CV curves of AC electrode at different scan rates; (b) GCD curves of AC electrode at different current densities; (c) The corresponding specific capacitance calculated by the GCD curves; (d) CV curves of the ASC at different voltage windows at a scan rate of 30 mV s⁻¹.