

Supporting Information

In-situ growth of ZIF-8-derived ternary ZnO/ZnCo₂O₄/NiO for high performance asymmetric supercapacitors

Chengxiang Huang, Chen Hao*, Zhaochun Ye, Saisai Zhou, Xiaohong Wang*, Linli Zhu and Jingbo Wu

School of Chemistry and Chemical Engineering, Jiangsu University, Zhenjiang, Jiangsu 212013, China

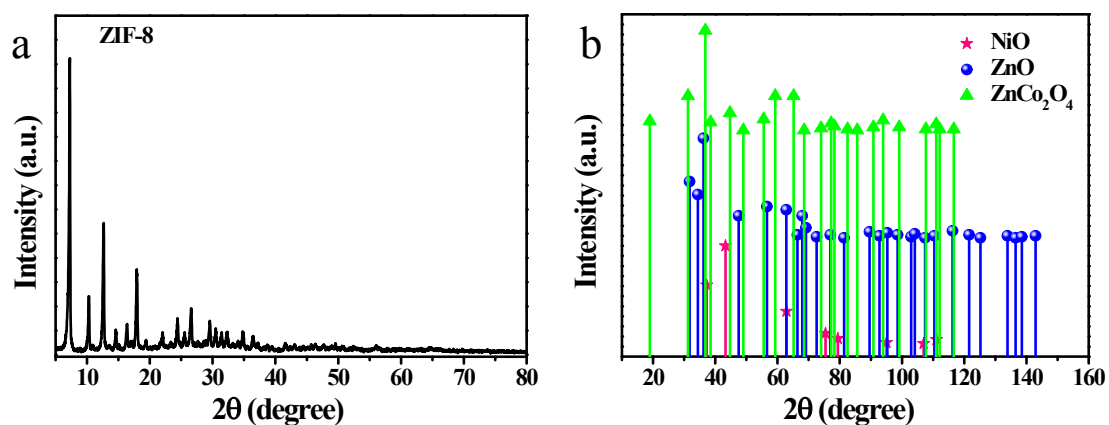


Fig. S1 (a) XRD patterns of the as-prepared ZIF-8; (b) The standard XRD patterns of NiO, ZnO, ZnCo₂O₄.

*Corresponding author. Tel.: +86 511 88791800; fax: +86 511 88791800.

E-mail addresses: xhwang@ujs.edu.cn (X.H. Wang); chhao@ujs.edu.cn (C. Hao).

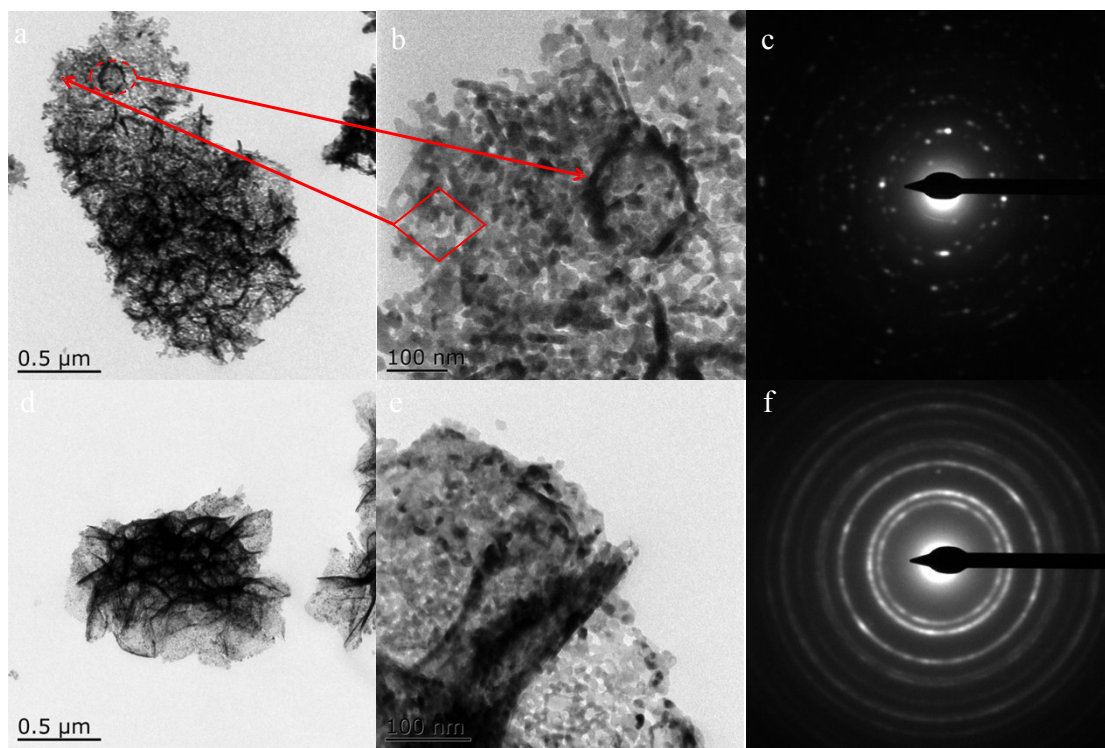


Fig. S2 TEM images of (a,b) ZZ and (d,e) ZN, and the corresponding SAED image (c) ZZ, (f) ZN.

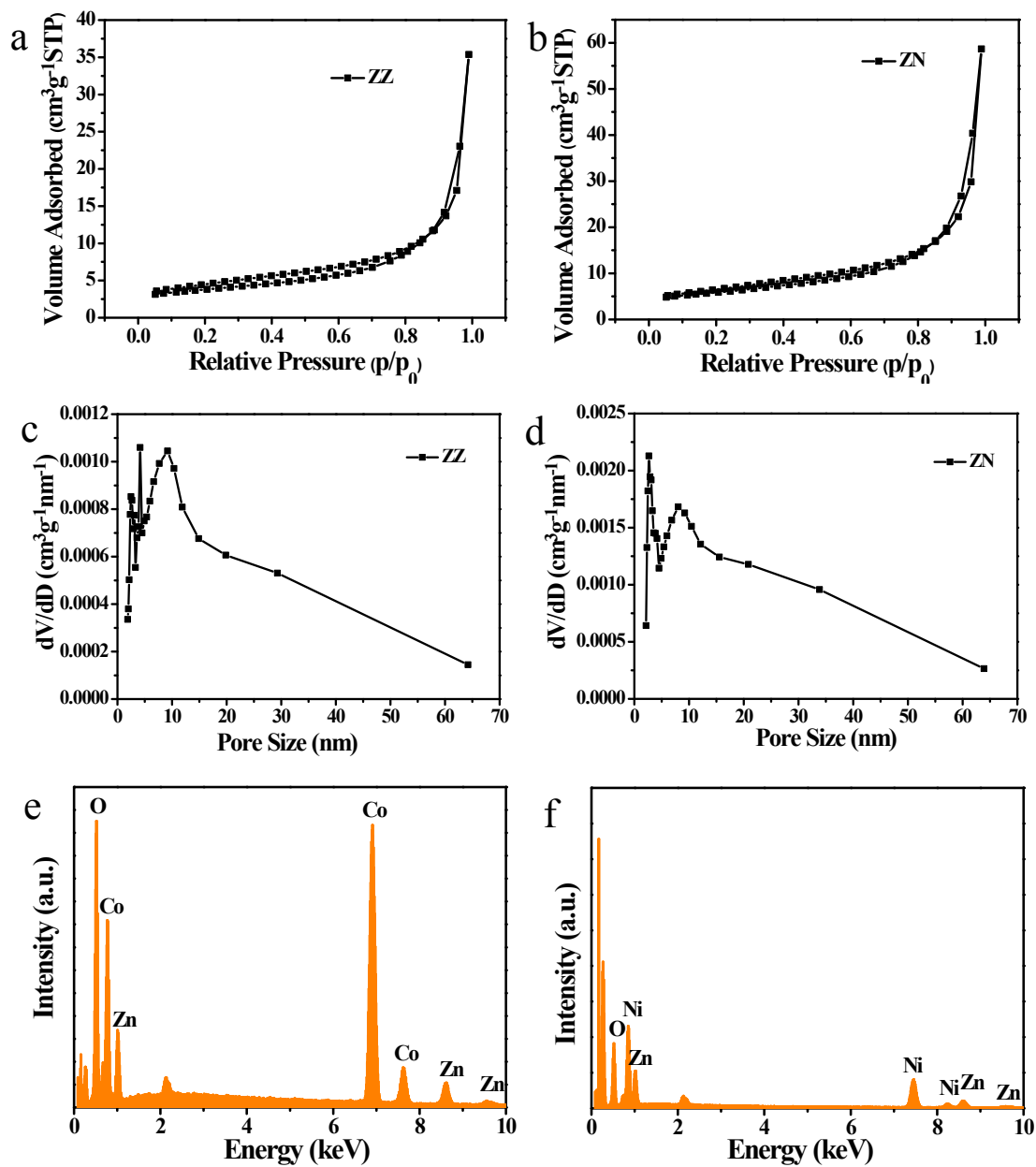


Fig. S3 N₂ adsorption-desorption isotherm curves of (a) ZZ and (b) ZN, the pore size distribution curves of (c) ZZ and (d) ZN, Energy-dispersive spectroscopy (EDS) of (e) ZZ and (f) ZN.

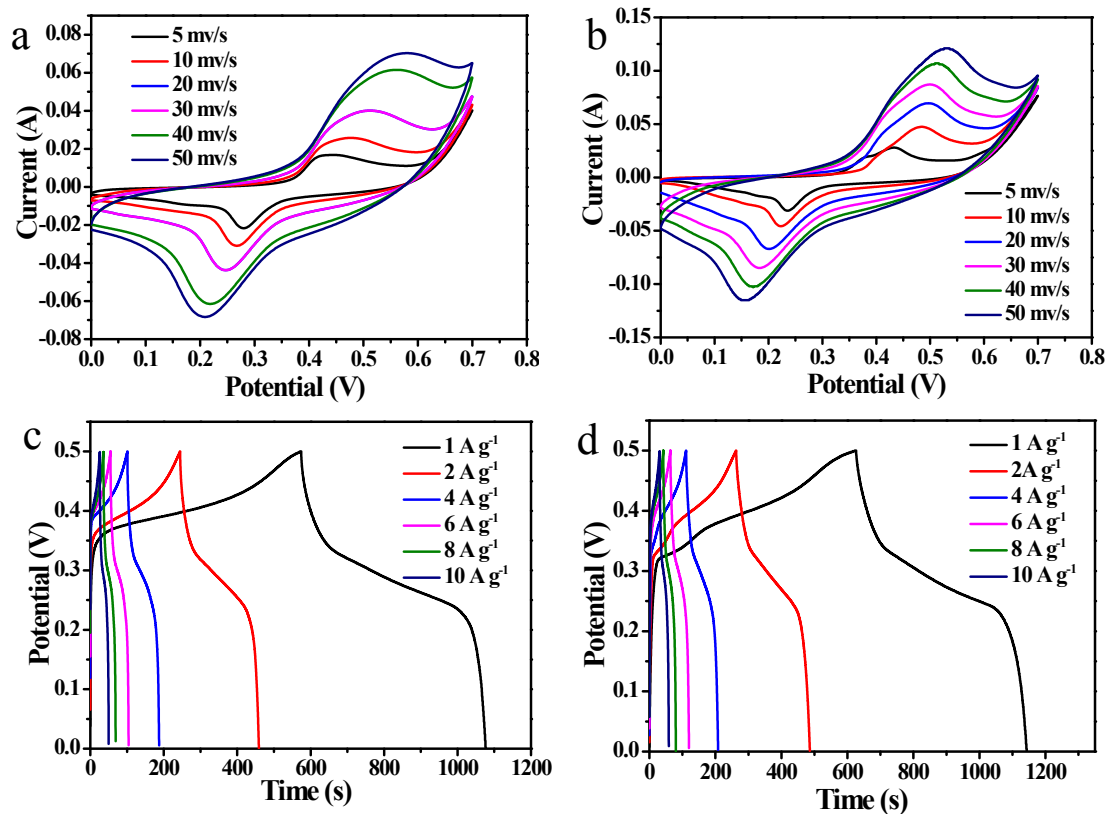


Fig. S4 (a) CV curves of ZZN-1 at different scan rates; (b) CV curves of ZZN-3 at different scan rates; (c) GCD curves of ZZN-1 at different current densities; (d) GCD curves of ZZN-3 at different current densities.

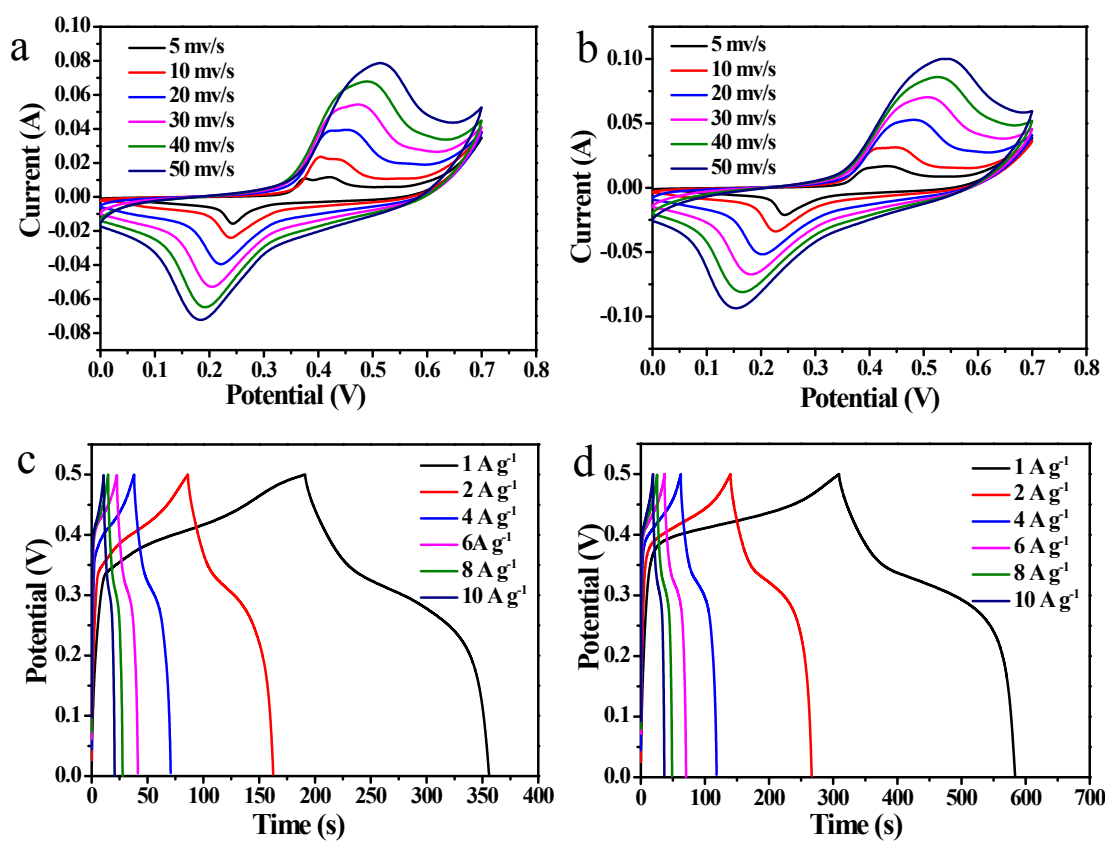


Fig. S5 (a) CV curves of ZZ at different scan rates; (b) CV curves of ZN at different scan rates; (c) GCD curves of ZZ at different current densities; (d) GCD curves of ZN at different current densities.

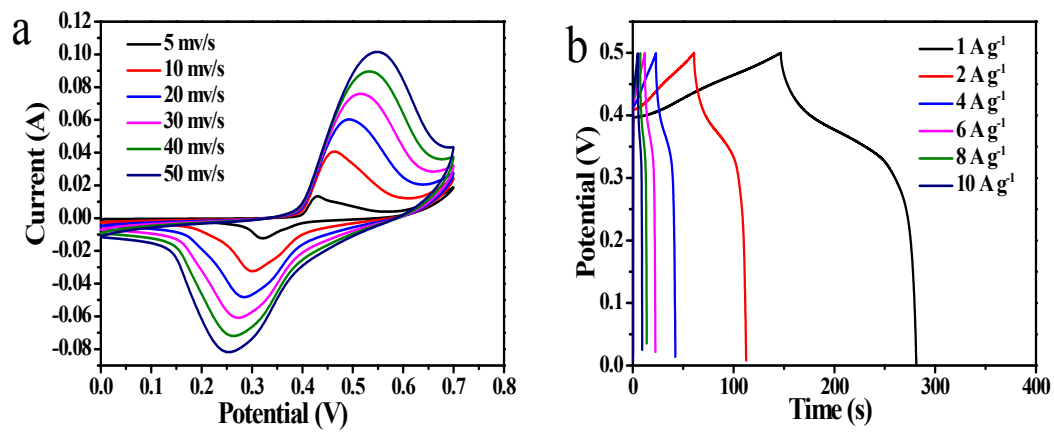


Fig. S6 (a) CV curves of ZIF-8 at different scan rates; (b) GCD curves of ZIF-8 at different current densities.

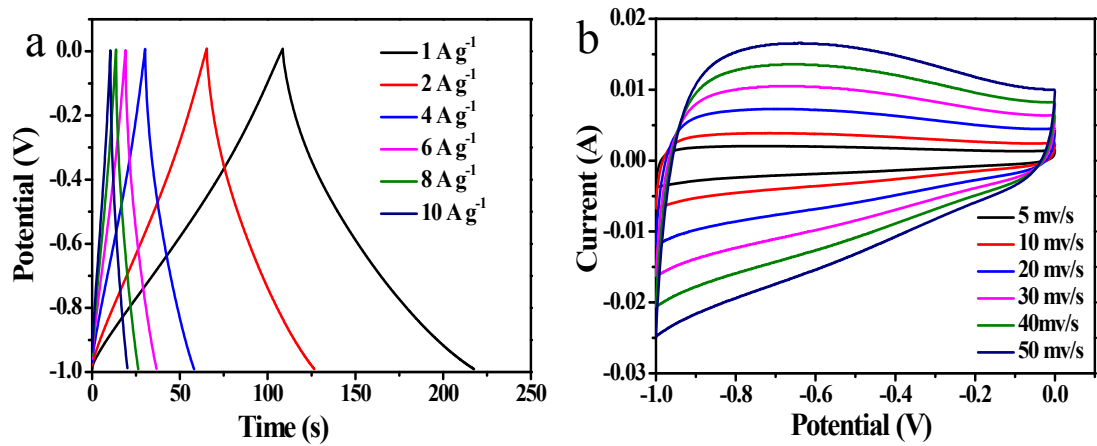


Fig. S7 (a) GCD curves of AC at different current densities; (b) CV curves of AC at different scan rates.