

Supplementary Data

MOF-Derived NiCoZn Oxide@Carbon Porous Framework/NiCo₂S₄ Composites for Hybrid Supercapacitor Applications

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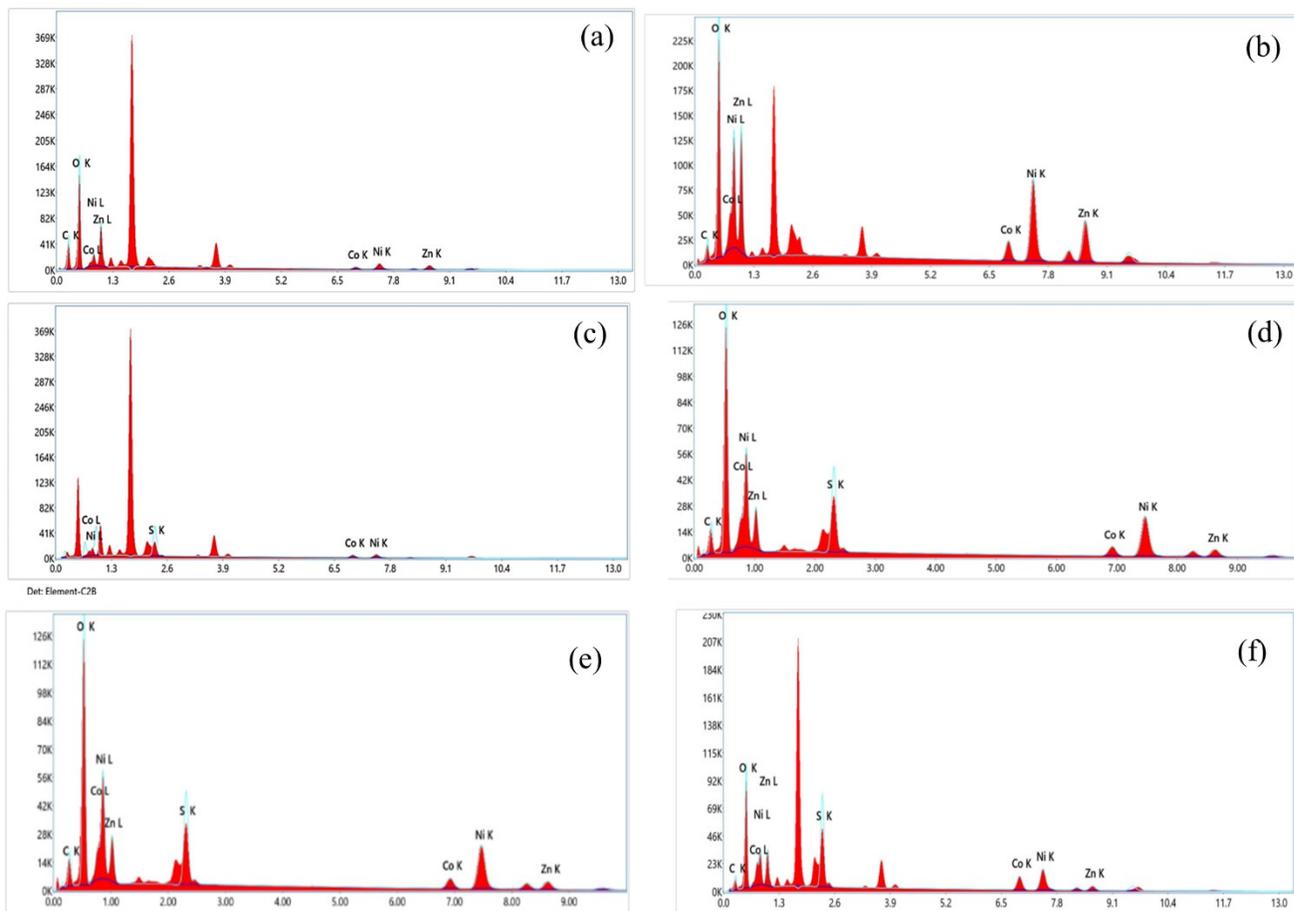


Figure S1: EDX spectra of (a) pristine NiCoZn-MOF, (b) calcined MOF, (c) NiCo₂S₄, and MOF@NiCo₂S₄ composites (d) A4, (e) A5, and (f) A6 confirming the presence of constituent elements.

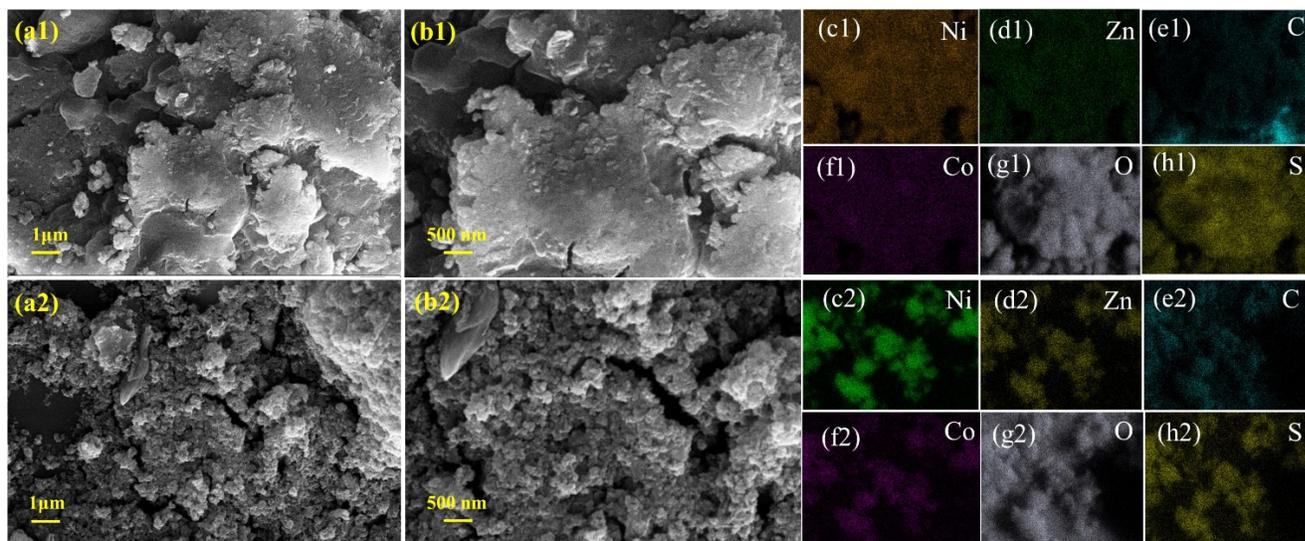


Figure S2: SEM images of composites A4 (a1–h1) and A6 (a2–h2), along with their corresponding EDX elemental mappings.

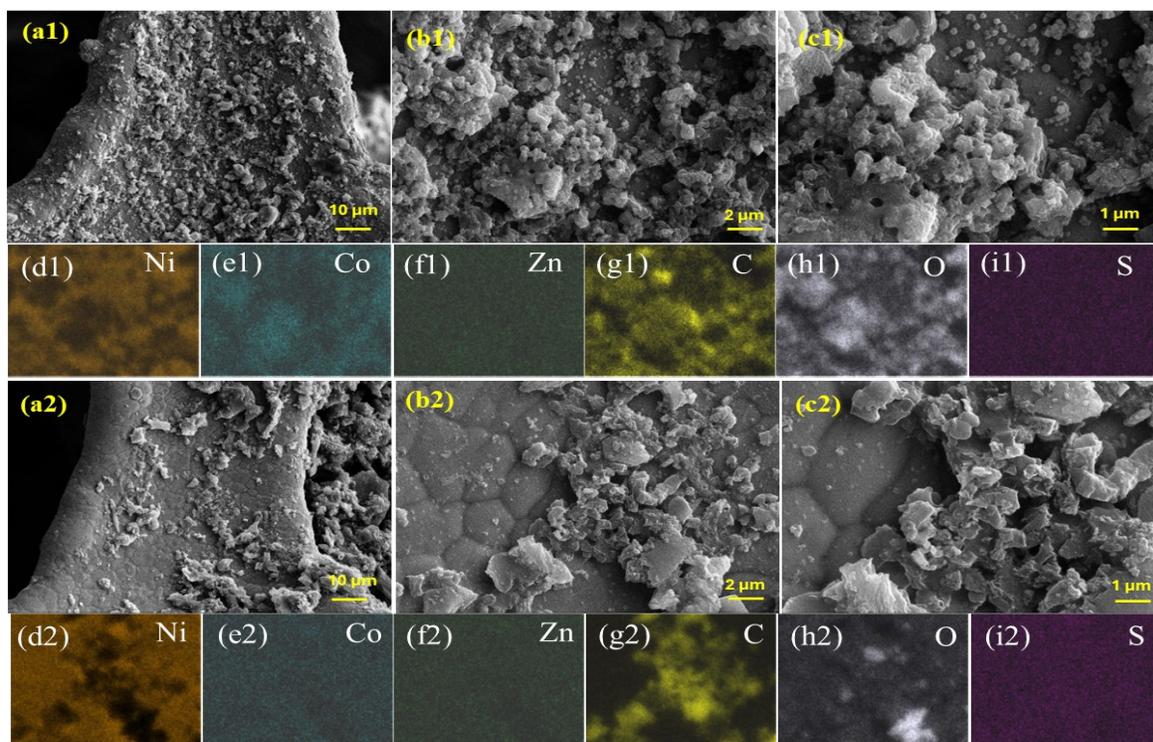


Figure S3: Figure 1: SEM images along with EDX elemental area mapping for NiCo₂S₄@Calcined MOFs composite (a1-i1) before stability and (a2-i2) after cycling stability analysis.