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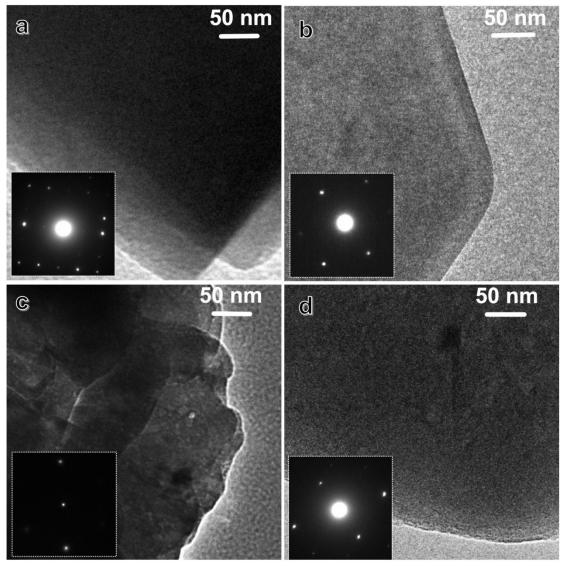


Figure S1. TEM images of as-prepared samples, a) S1, b) S2, c) S3, and d) S4.

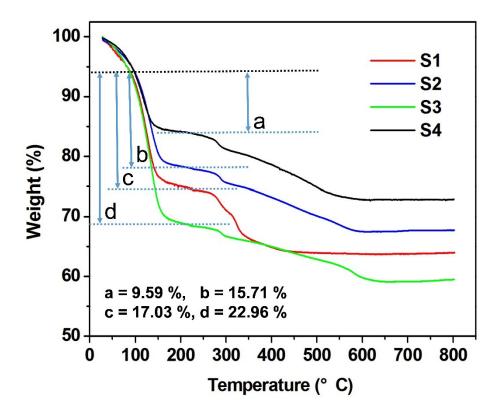


Figure S2. the thermal gravimetric analysis (TGA) measurement of as-prepared samples.

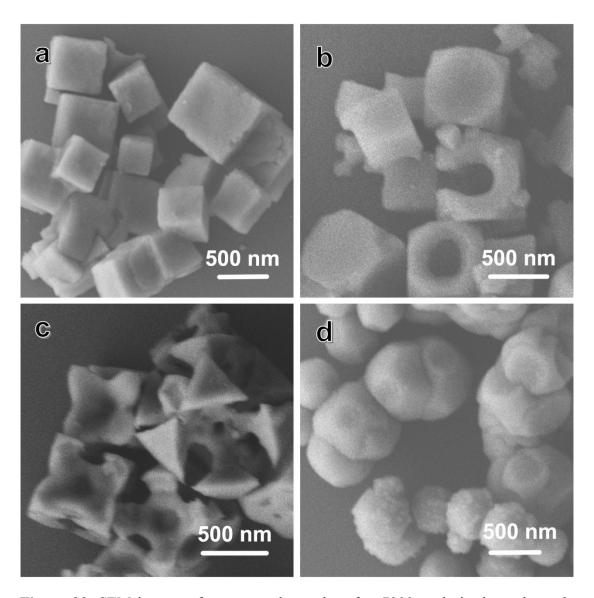


Figure S3. SEM images of as-prepared samples after 7000 cycle in three-electrode system, a) S1, b) S2, c) S3, and d) S4.

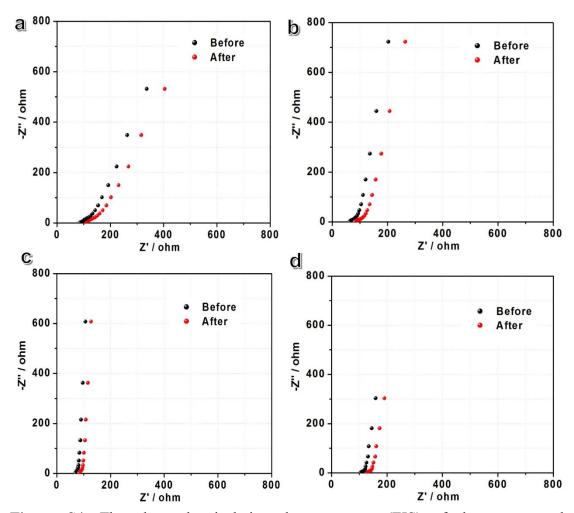


Figure S4. The electrochemical impedance spectra (EIS) of the as-prepared electrodes before and after 7000 cycle: a) S1; b) S2; c) S3; and d) S4.