

Supporting Information

Three-dimensional interconnected network GeO_x/multi-walled
CNTs composite spheres as high-performance anodes for
lithium ion batteries

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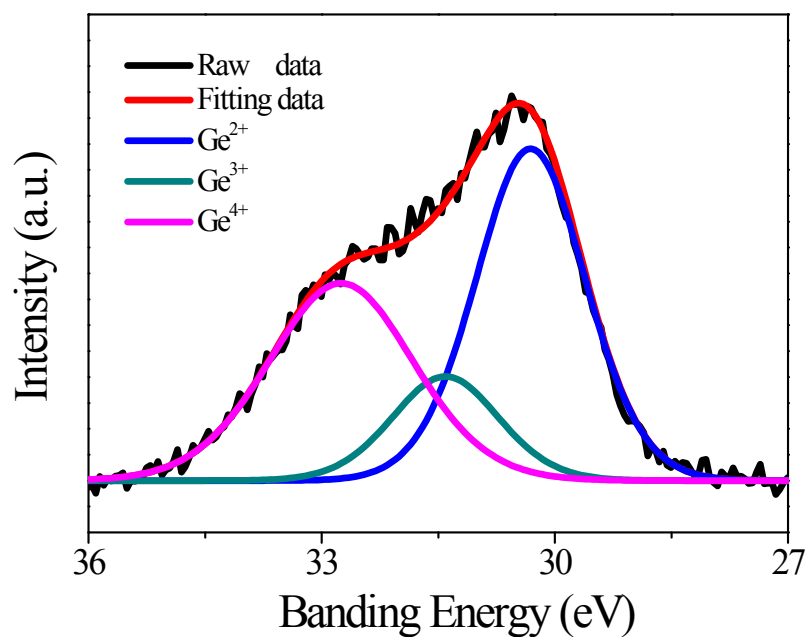


Figure S1. X-ray photoelectron spectroscopy analysis of the $\text{GeO}_x/\text{MWCNTs}$ composite spheres

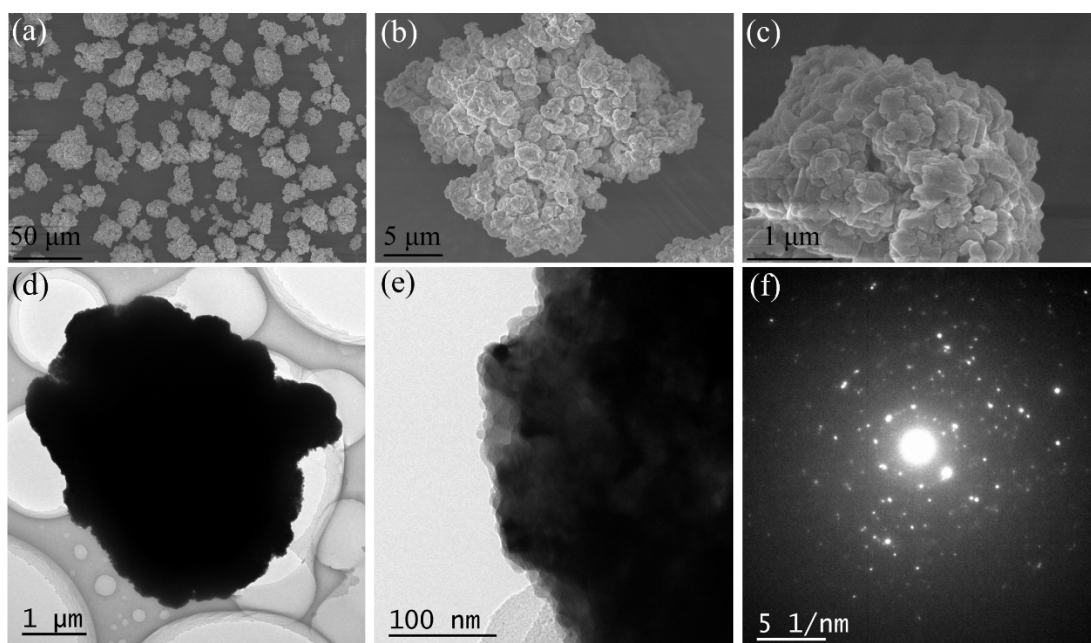


Figure S2. (a - c) SEM images of the commercial GeO_2 ; (d, e) TEM images of the commercial GeO_2 , and (f) is the selected area electron diffraction (SAED) of the center of the commercial GeO_2 .

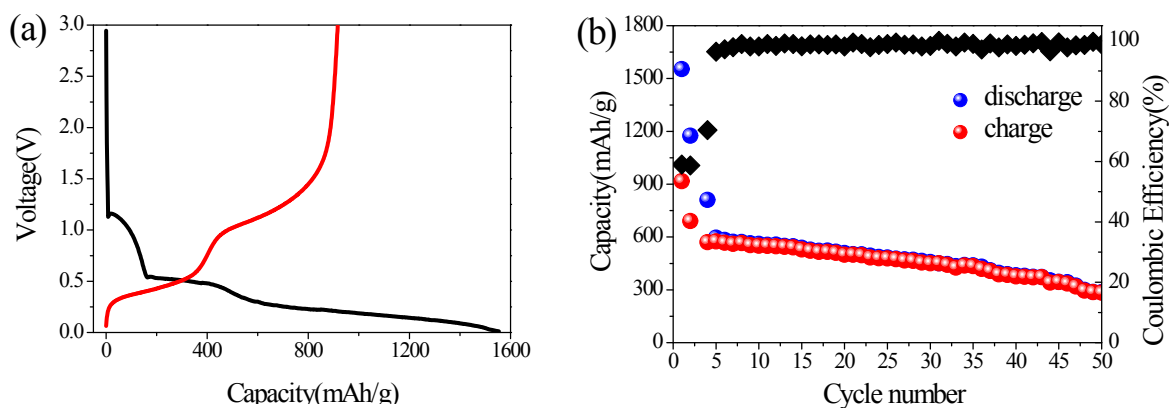


Figure S3. Electrochemical performance of the commercial GeO_2 : (a) charge/discharge profiles of the commercial GeO_2 . (d) Cycling performance and Coulombic efficiencies of the commercial GeO_2 at a current density of 50 mA/g for the initial two cycles and at 500 mA/g in the following cycles.

3D GeOx/MWCNTs composite spheres as anode exhibited high rate capability and long-life performances with high areal loading for lithium ion batteries.

