Electronic Supplementary Material (ESI) for Journal of Materials Chemistry A.

Supporting Information

The Union of Intercalation and Conversion Reactions to Improve the Volumetric Capacity of Cathode in Li-S Batteries

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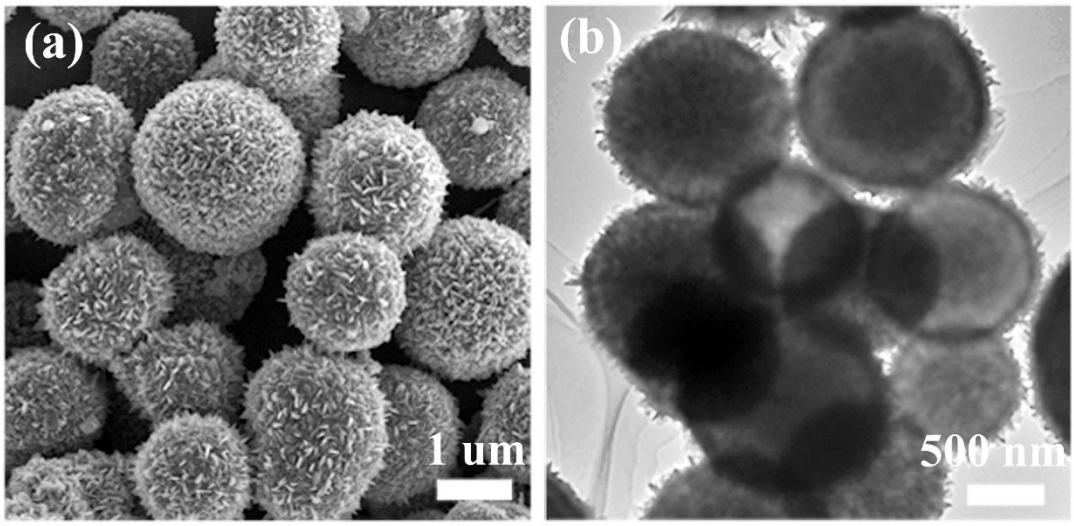

Figure S1. (a) SEM and (b) TEM images of VO_2 HSs.

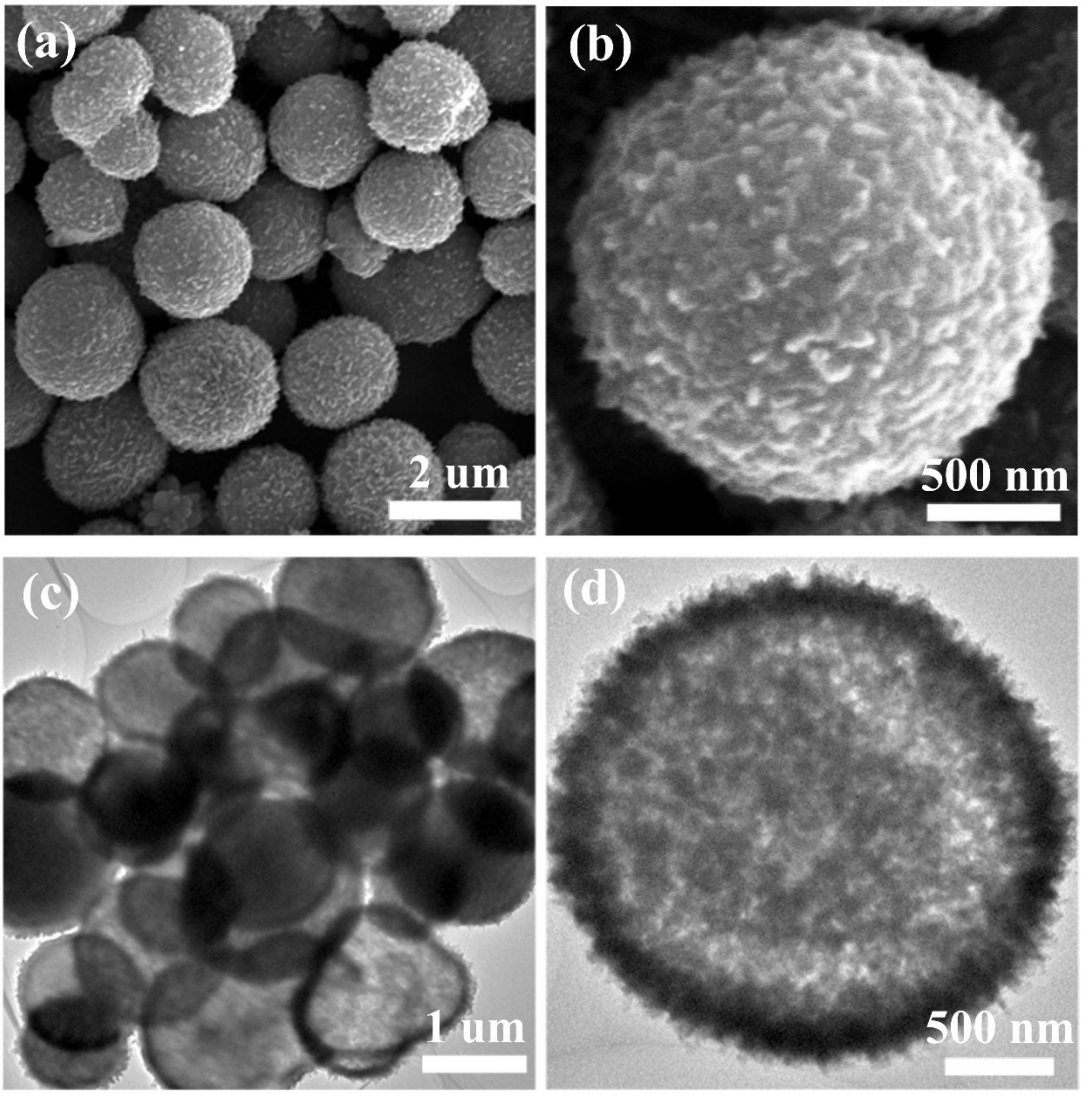

Figure S2. (a, b) SEM images and (c, d) TEM images of V_2O_5 HSs.

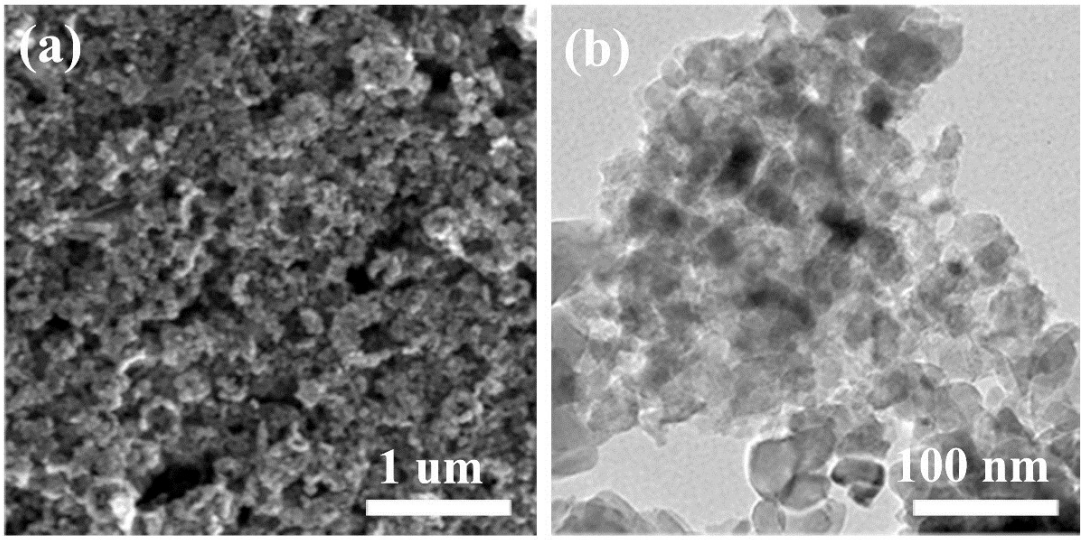

Figure S3. (a) SEM image and (b) TEM image of VO_2 particles.

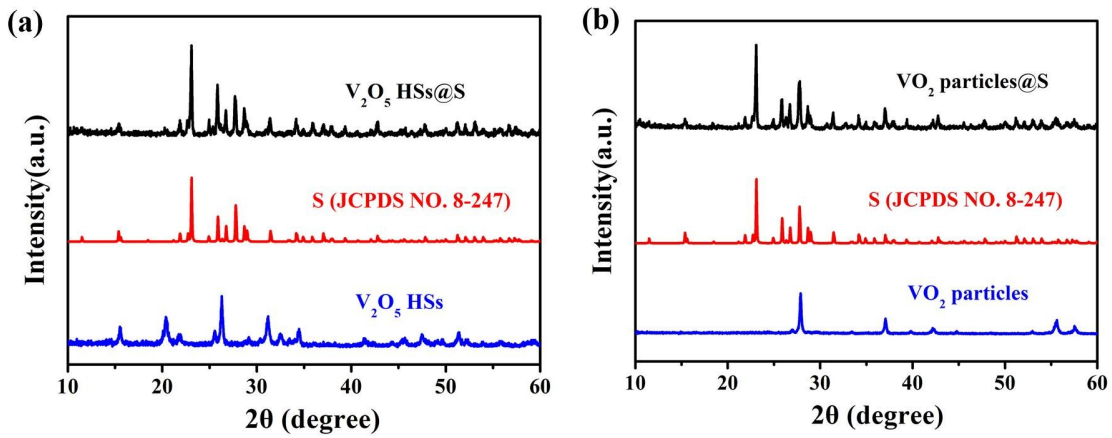

Figure S4. XRD patterns of (a) V_2O_5 HSs@S and (b) VO_2 particles@S.

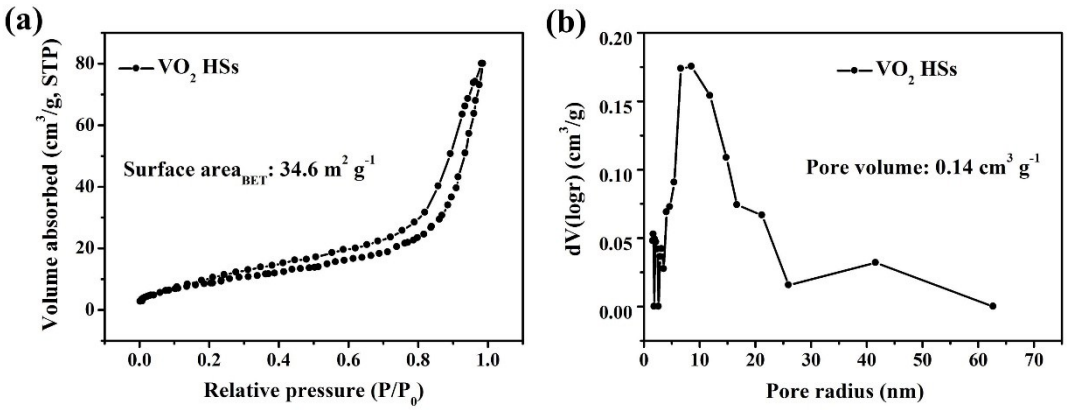

Figure S5. (a) N_2 adsorption/desorption isotherm, and (b) pore size distribution of VO_2 HSs.

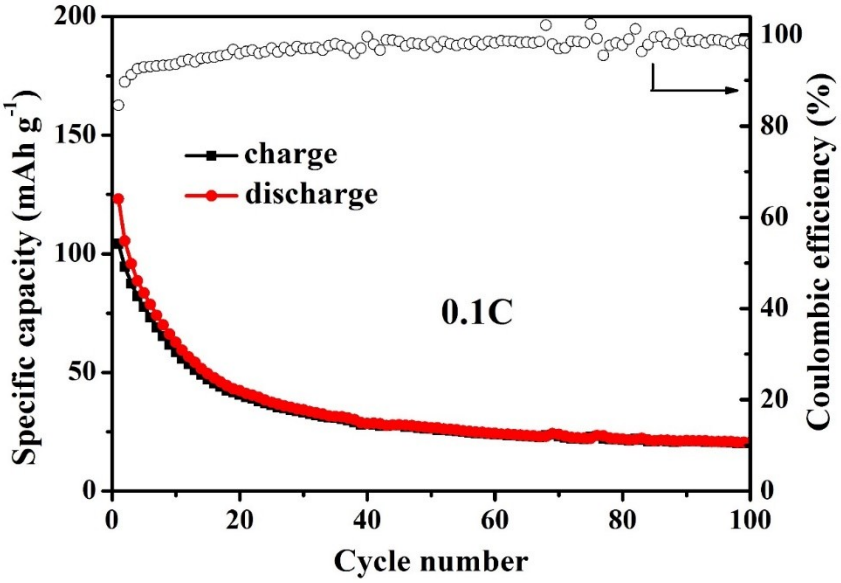

Figure S6. Cycling performance of a bare VO_2 HSs cathode at a current density of 0.1 C for 100 cycles.

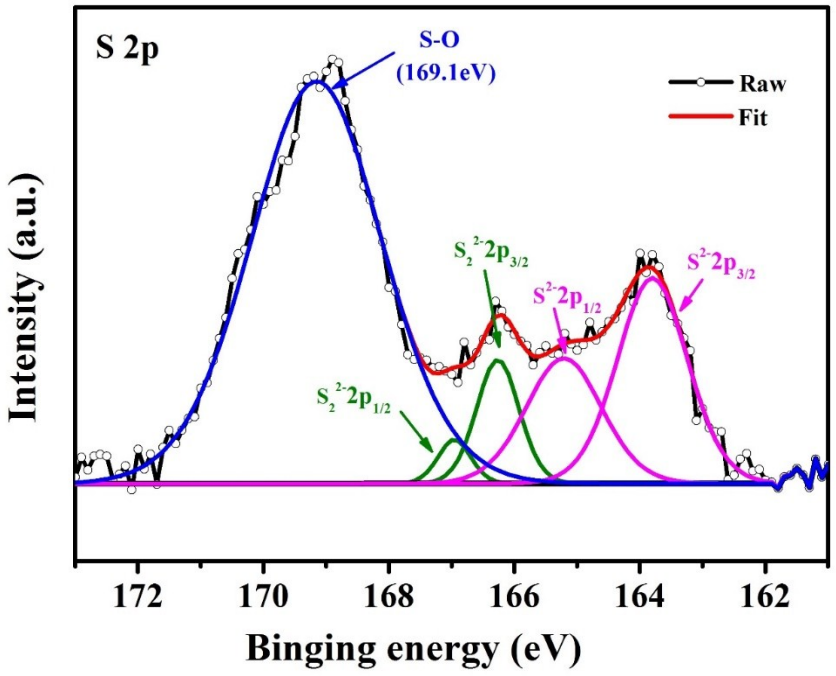

Figure S7. XPS spectra for S 2p of VO_2 HSs after remove sulfur from VO_2 HSs@S.