

Supporting Information for

Inducing Rapid Polysulfide Transformation through Enhanced Interfacial Electronic Interaction for Lithium-Sulfur Batteries

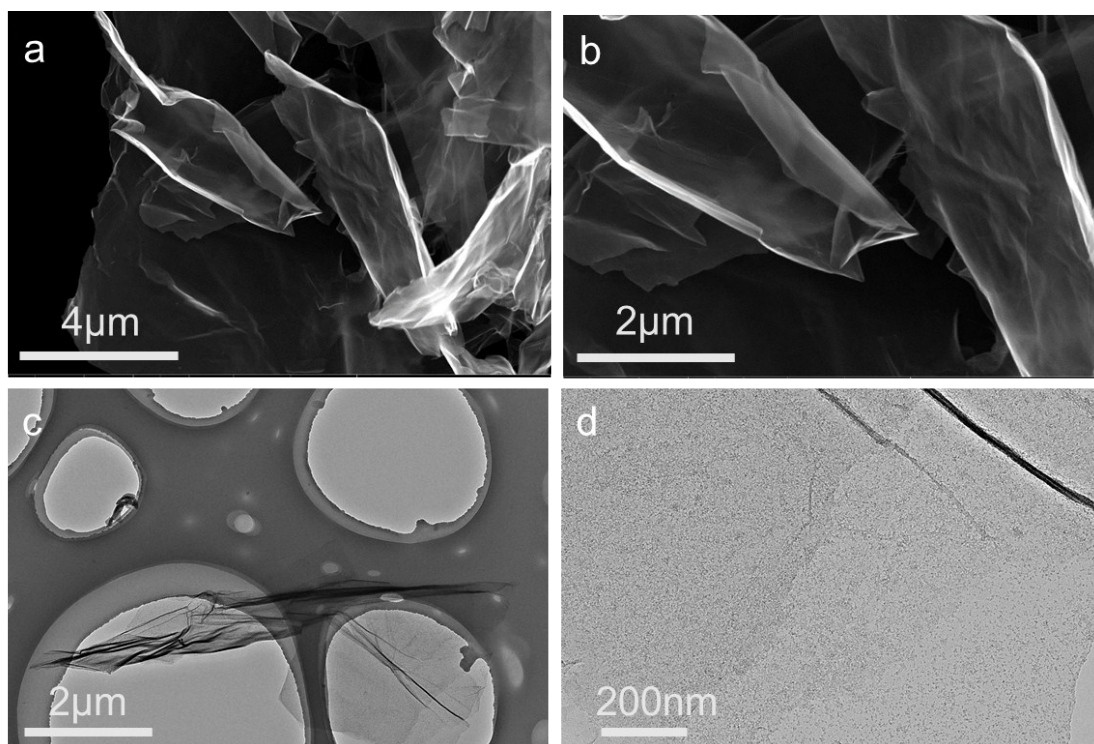


Figure S1 SEM (a) (b) and TEM (c) (d) images of graphene.

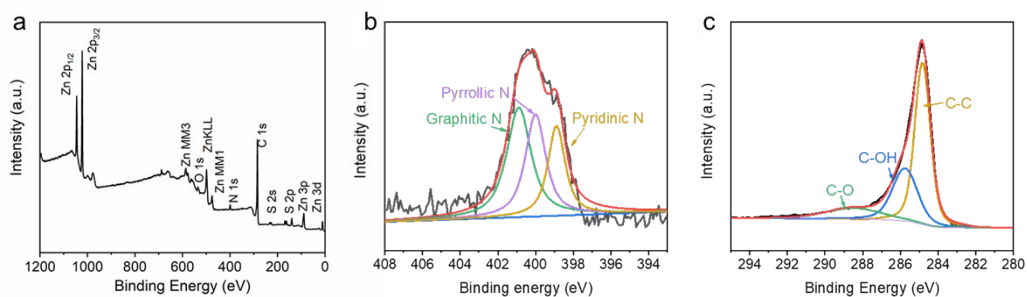


Figure S2 XPS spectra(a), C1s (b) and N1s (c) peak of ZnS QD@rGO

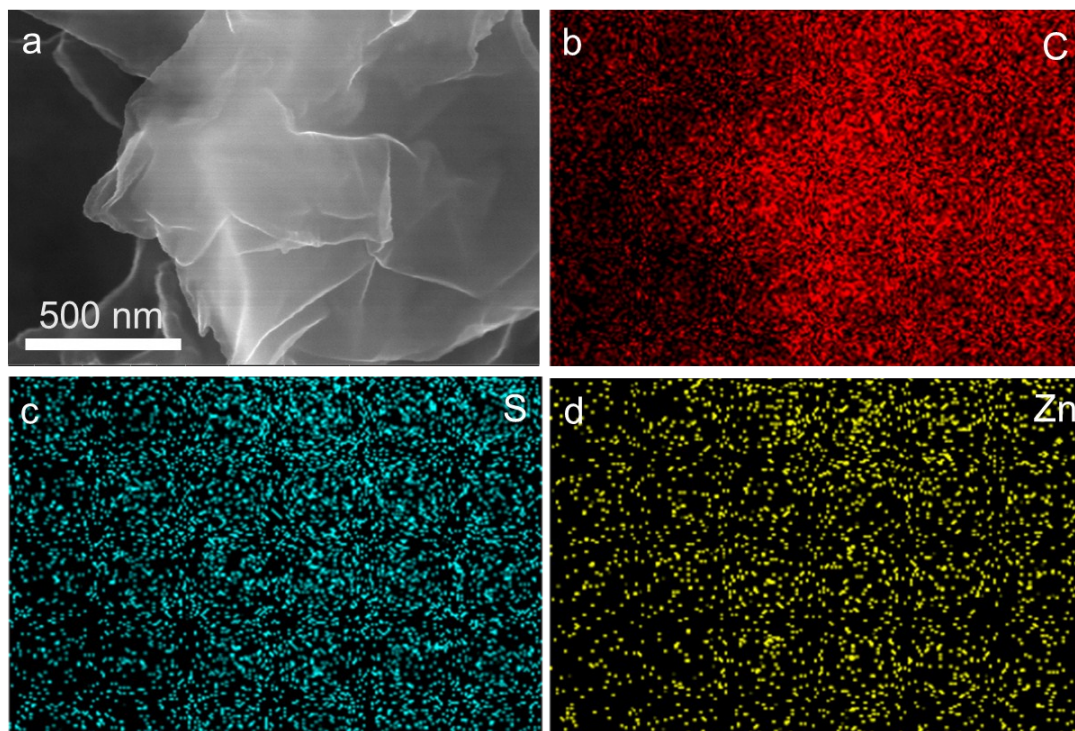


Figure S3 SEM image of ZnS QD@rGO and corresponding elemental mappings.

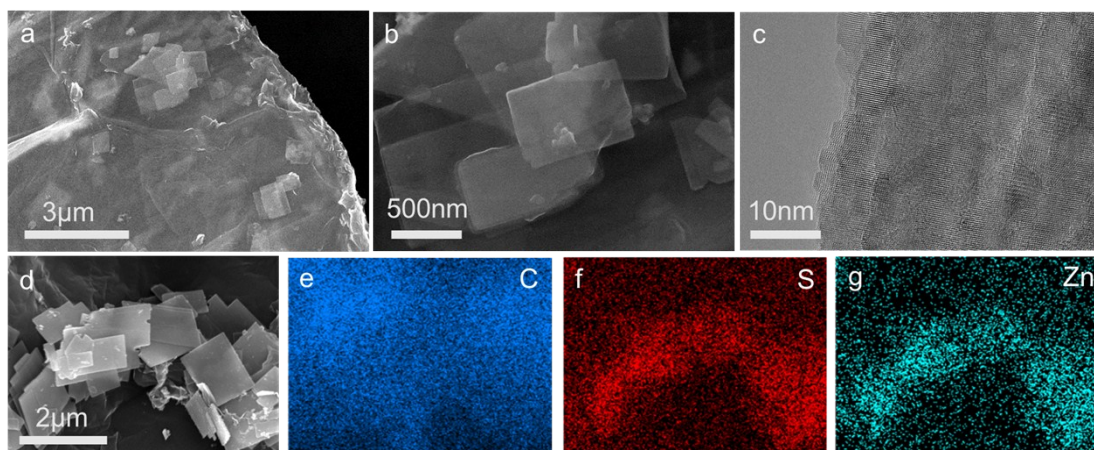


Figure S4 ZnS NT@rGO samples: (a)(b) SEM images of different scale bars, (c)TEM image and (d-g) corresponding mapping patterns

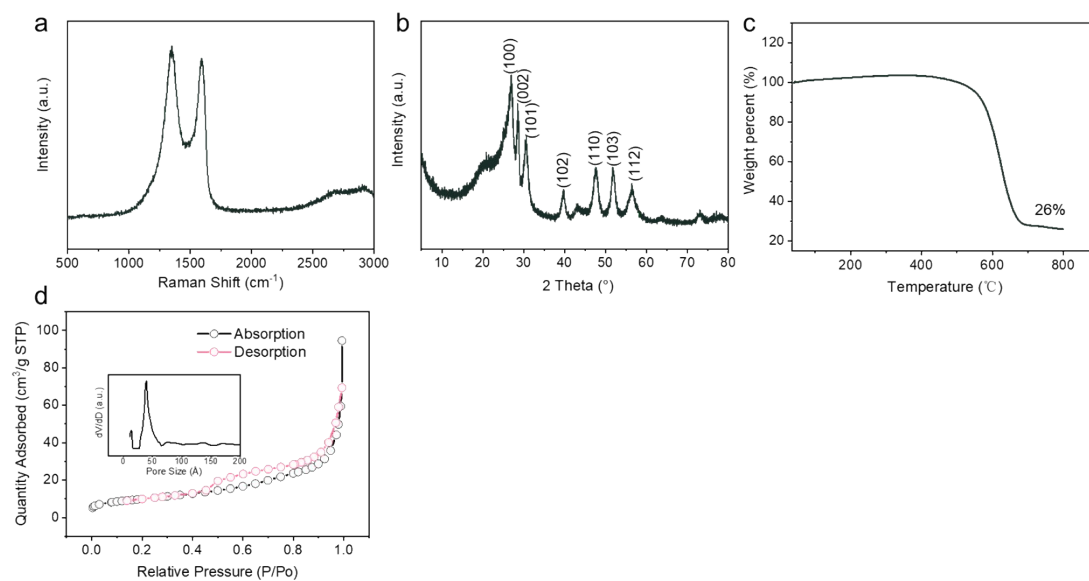


Figure S5 ZnS NT@rGO samples: Raman pattern (a), XRD pattern (b), TGA curve

(c), BET surface area (d), and pore size distribution (e).

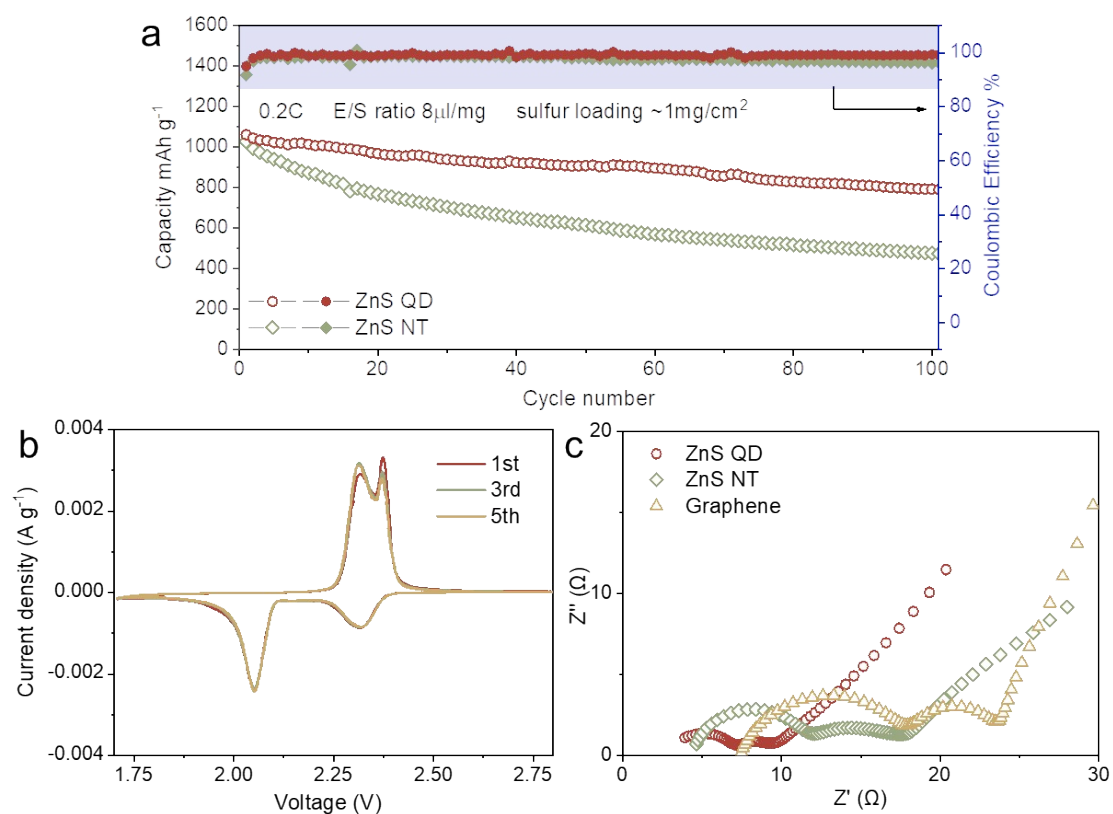


Figure S6 (a) cycle performance at 0.2C, (b) The 1st, 3rd, 5th CV curves of batteries based on ZnS QD@rGO samples and EIS results of battery based on ZnS QD@rGO, ZnS NT@rGO and graphene additive cathodes after cycles.