

Electronic Supplementary Information

Enhanced Electrochemical Performance of Sulfur Cathodes with a Water-Soluble Binder

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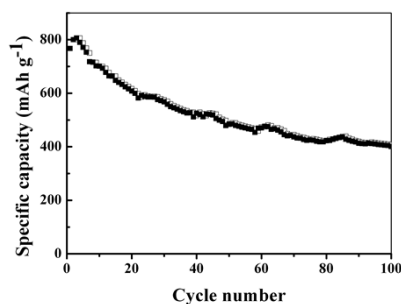


Fig. S1 Cycle performance of AC-S composite with 5 wt%-PVDF binder at the current density of 0.5 C.

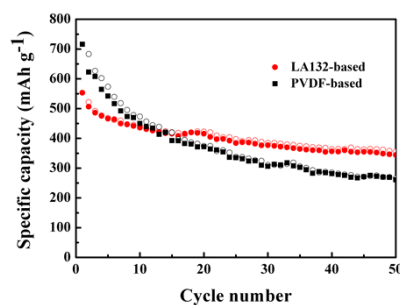


Fig. S2 Cycle performances of the AC-S composite with 70 wt% S at the current density of 0.5 C with 10 wt% different binders.

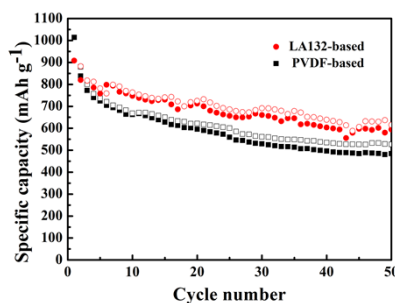


Fig. S3 Cycle performances of the Ketjenblack-S composite with 70 wt% S at the current density of 0.5 C with 10 wt% different binders.

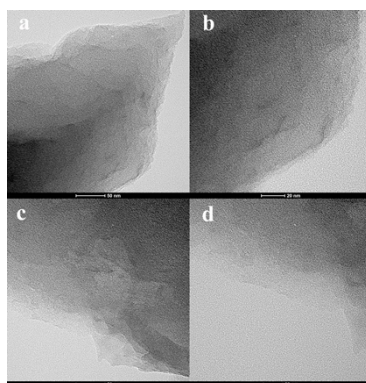


Fig. S4 TEM images of the AC-S cathode with LA132 (a, b) before and (c, d) after 20 cycles.

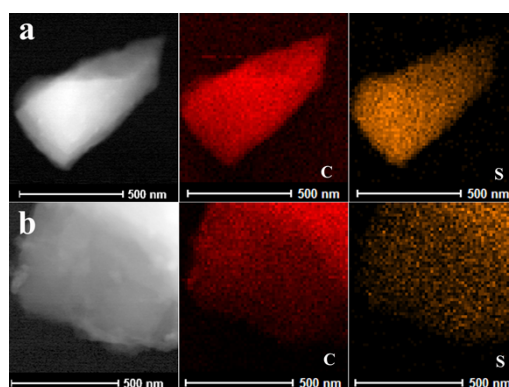


Fig. S5 STEM images and corresponding mapping of carbon and sulfur elements across a selected area of the AC-S cathode with LA132 (a) before and (b) after 20 cycles.