

Supporting information

The phase transfer effect of sulfur in lithium–sulfur batteries

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Figures

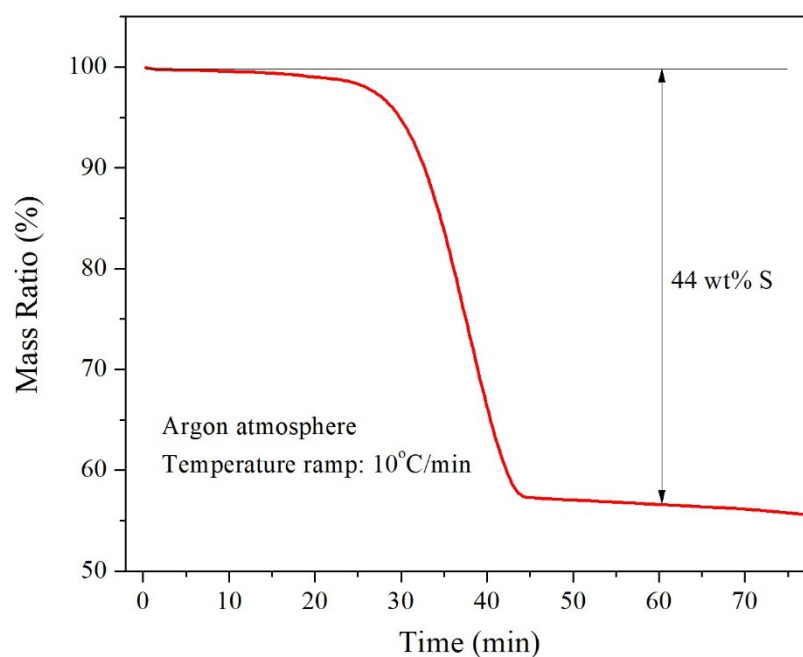


Fig. S1. TG analysis of the carbon/sulfur composite used as cathode material in this work.



Fig. S2. Digital image of S-GFI film prepared by a dropping-coating method.

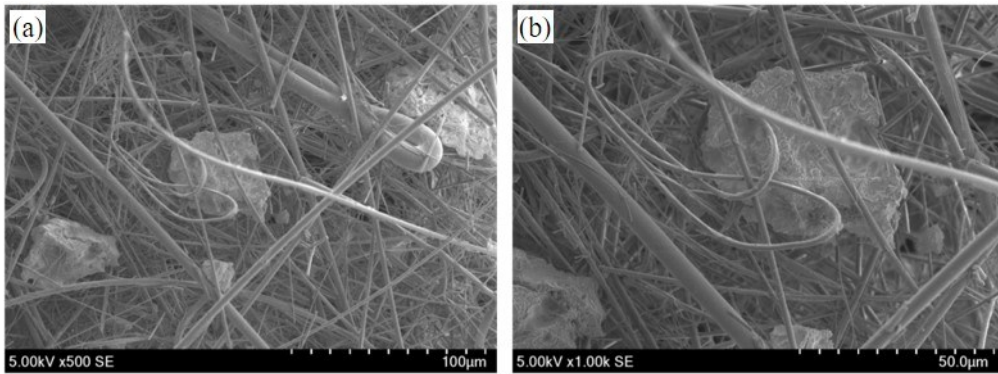


Fig. S3 SEM images of the S-GFI film by drop coating method.

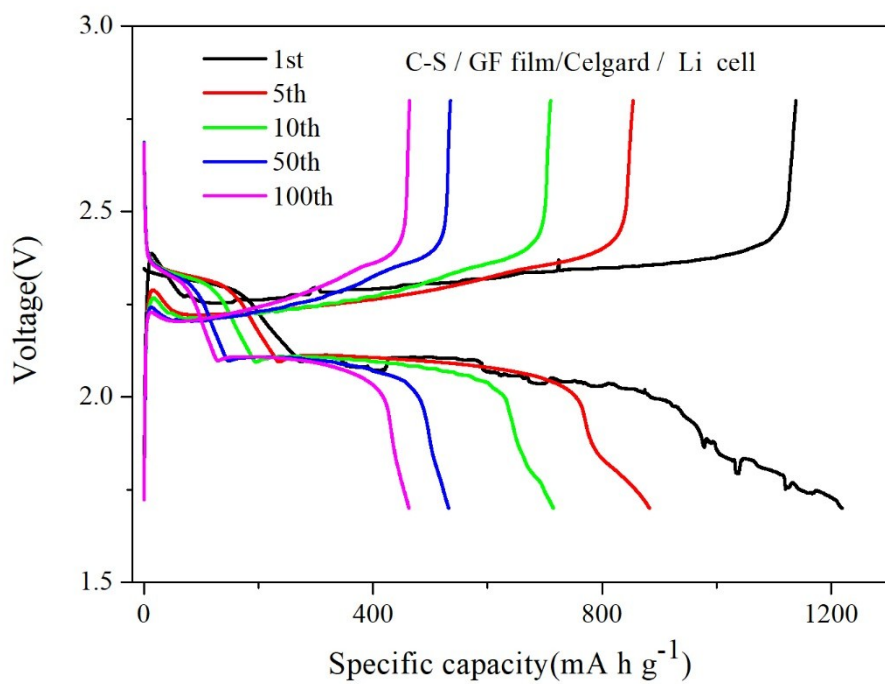


Fig. S4. Voltage profiles for discharging and charging of the C-S/Celgrad/Li cell

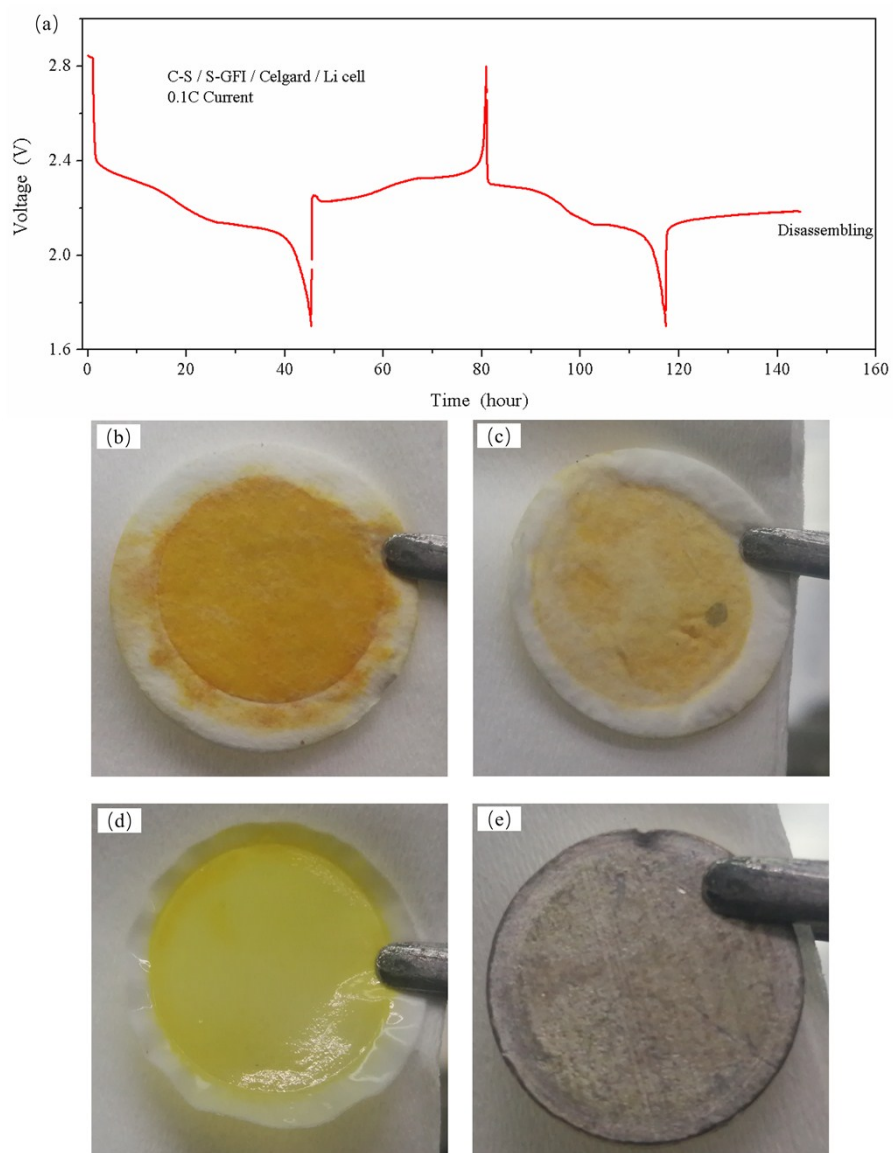


Fig. S5. The voltage profile for the first two discharge-charge cycles, the digital images of the surface of the S-GFI layer close to the cathode (b) and the separator (c), Celgard separator (d) and Li anode (e) collected from this battery.

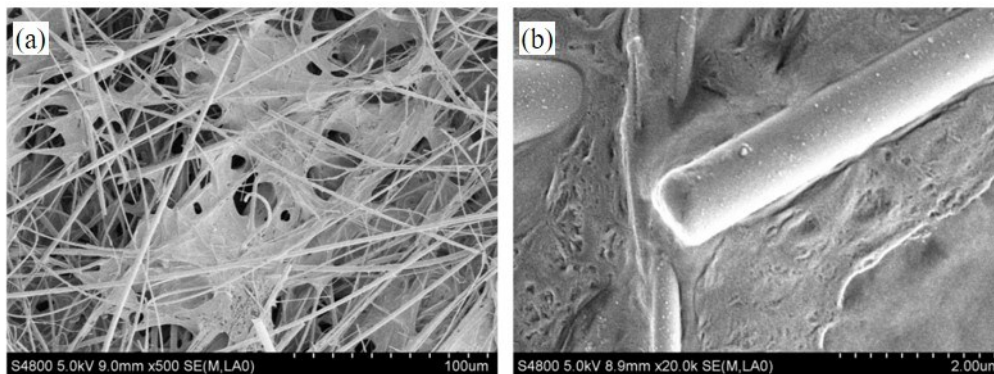


Fig. S6. SEM images of the S-GFI film after its initial discharge in Li-S battery.

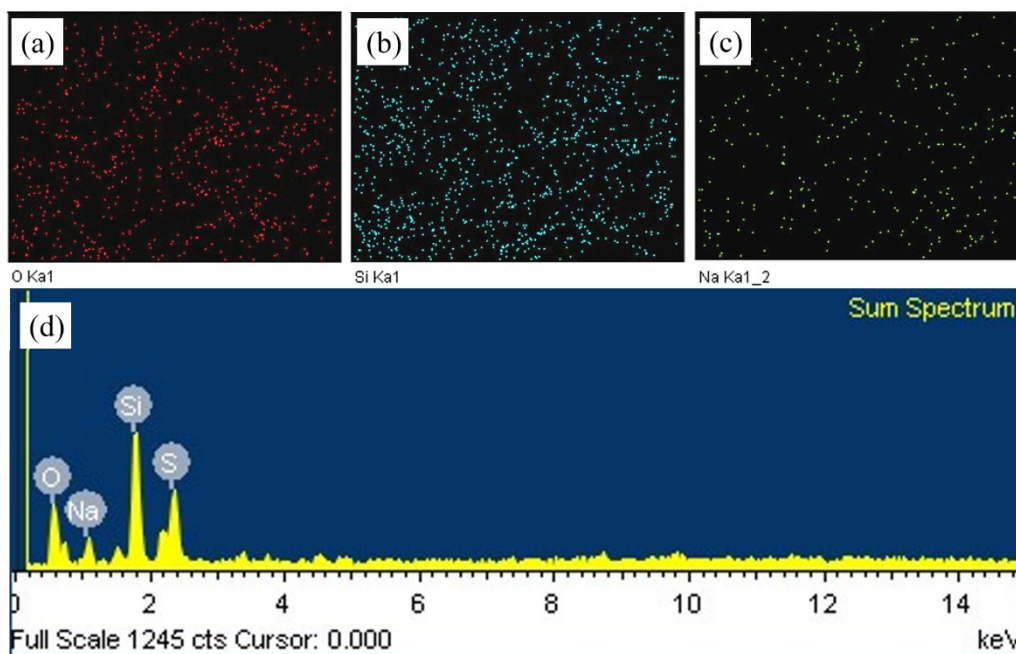


Fig. S7. The element analysis from EDS mapping of the S-GFI film after discharge