Supporting information

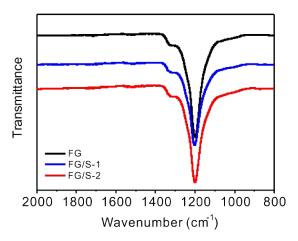


Fig.S1. The FTIR spectrum of FG, FG/S-1, and FG/S-2.

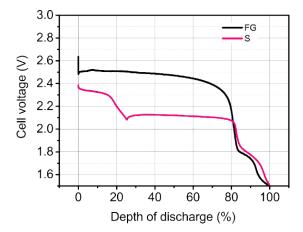


Fig.S2. Typical plots of cell voltage vs. depth of discharge for the FG and sulfur at 0.05 A g⁻¹.

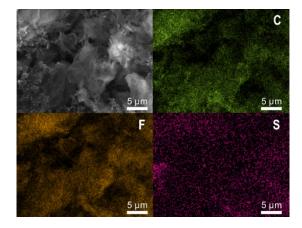


Fig.S3. The SEM morphology and corresponded element distribution for the FG/S-2 electrode.

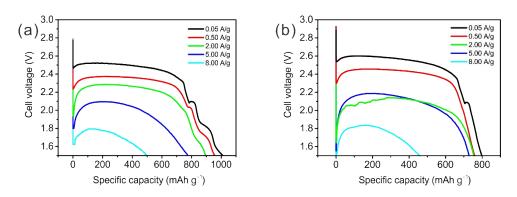


Fig.S4. The galvanostatic discharge curves of FG/S-2 electrode in the electrolyte with the additive $LiNO_3$ (a), or without $LiNO_3$ (b) at different current rates.