



Supporting Information

for

Design and facile synthesis of defect-rich C-MoS₂/rGO nanosheets for enhanced lithium–sulfur battery performance

Chengxiang Tian, Juwei Wu, Zheng Ma, Bo Li, Pengcheng Li, Xiaotao Zu and Xia Xiang

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Additional experimental data

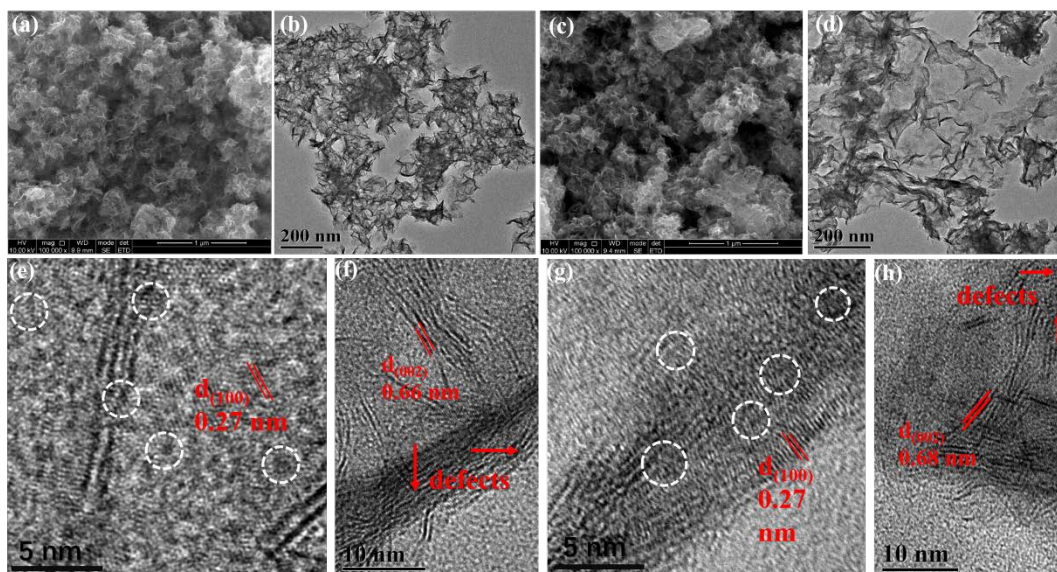


Figure S1: Morphological images of the C-MoS₂/rGO-4 (a) SEM image, (b) TEM image, and (e-f) HRTEM images; Morphological images of the C-MoS₂/rGO-8 (c) SEM image, (d) TEM image, (g-h) HRTEM images.

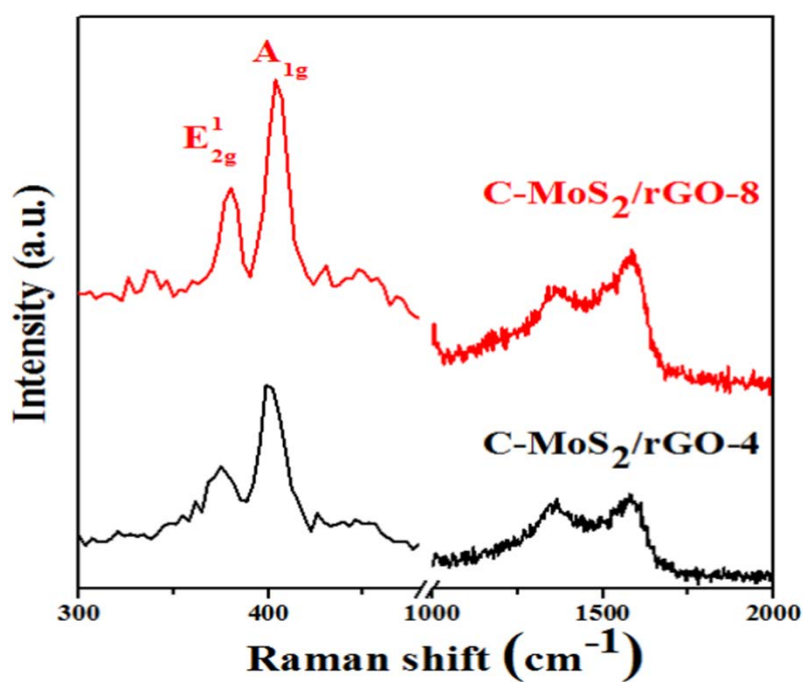


Figure S2: Raman spectra of C-MoS₂/rGO-4 and C-MoS₂/rGO-8 composites.

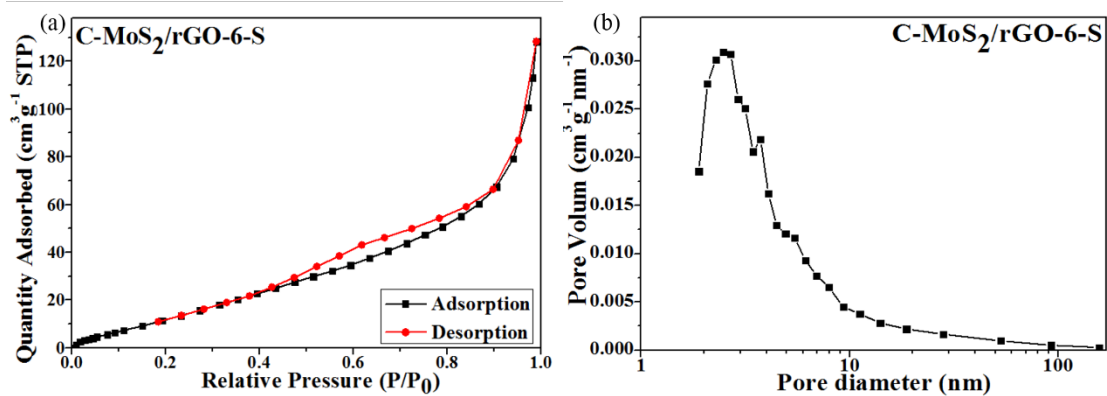


Figure S3: (a) N₂ adsorption–desorption isotherm and (b) corresponding pore size distribution of the C-MoS₂/rGO-6-S composite.

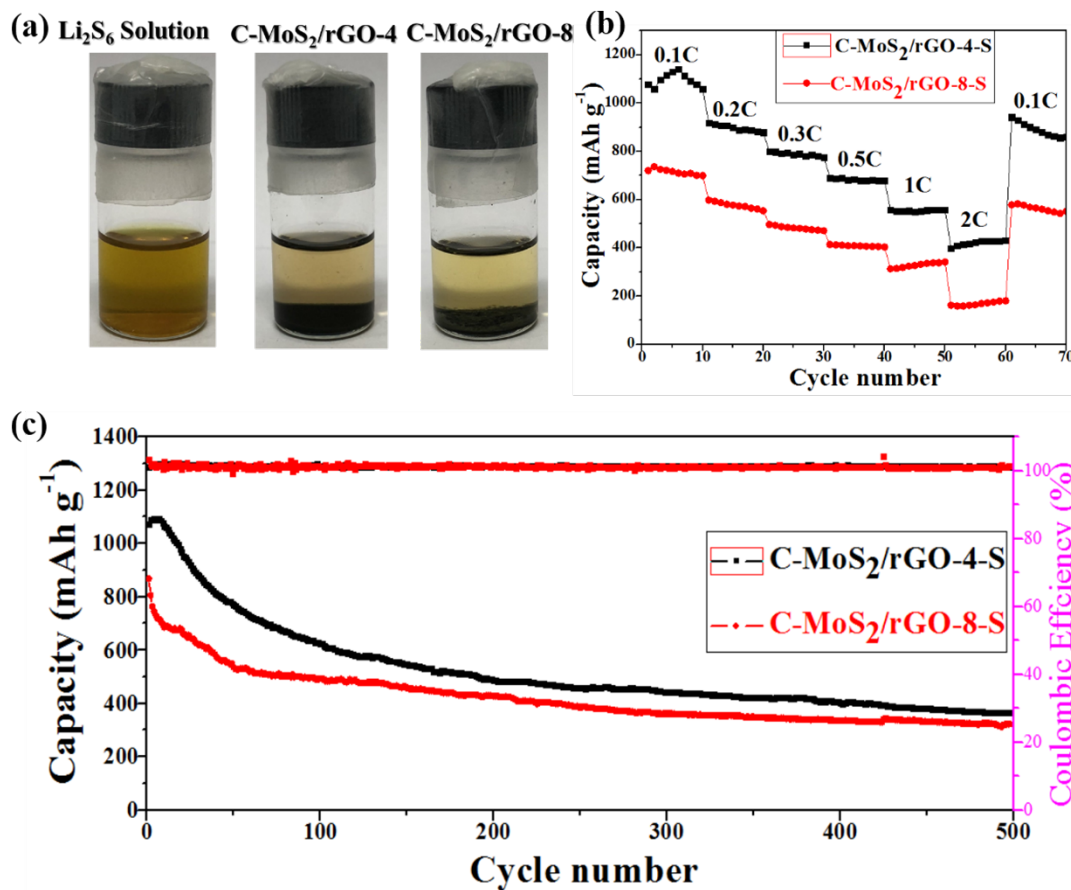


Figure S4: (a) Photos of the Li₂S₆ solution after 12 h of adsorption experiments with the same amount of C-MoS₂/rGO-4 and C-MoS₂/rGO-8 composites. (b, c) Rate performances at different current densities and long-term cycling performance at 0.2C of the C-MoS₂/rGO-4 and C-MoS₂/rGO-8 composites.