Supporting Information

for

Design and facile synthesis of defect-rich C-MoS$_2$/rGO nanosheets for enhanced lithium–sulfur battery performance

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*Beilstein J. Nanotechnol.* **2019**, *10*, 2251–2260. doi:10.3762/bjnano.10.217

Additional experimental data
Figure S1: Morphological images of the C-MoS$_2$/rGO-4 (a) SEM image, (b) TEM image, and (e-f) HRTEM images; Morphological images of the C-MoS$_2$/rGO-8 (c) SEM image, (d) TEM image, (g-h) HRTEM images.

Figure S2: Raman spectra of C-MoS$_2$/rGO-4 and C-MoS$_2$/rGO-8 composites.
Figure S3: (a) N$_2$ adsorption–desorption isotherm and (b) corresponding pore size distribution of the C-MoS$_2$/rGO-6-S composite.

Figure S4: (a) Photos of the Li$_2$S$_6$ solution after 12 h of adsorption experiments with the same amount of C-MoS$_2$/rGO-4 and C-MoS$_2$/rGO-8 composites. (b, c) Rate performances at different current densities and long-term cycling performance at 0.2C of the C-MoS$_2$/rGO-4 and C-MoS$_2$/rGO-8 composites.