Supporting Information

An integrated electrode based on nanoflakes of MoS_2 on carbon cloth for enhanced lithium storage

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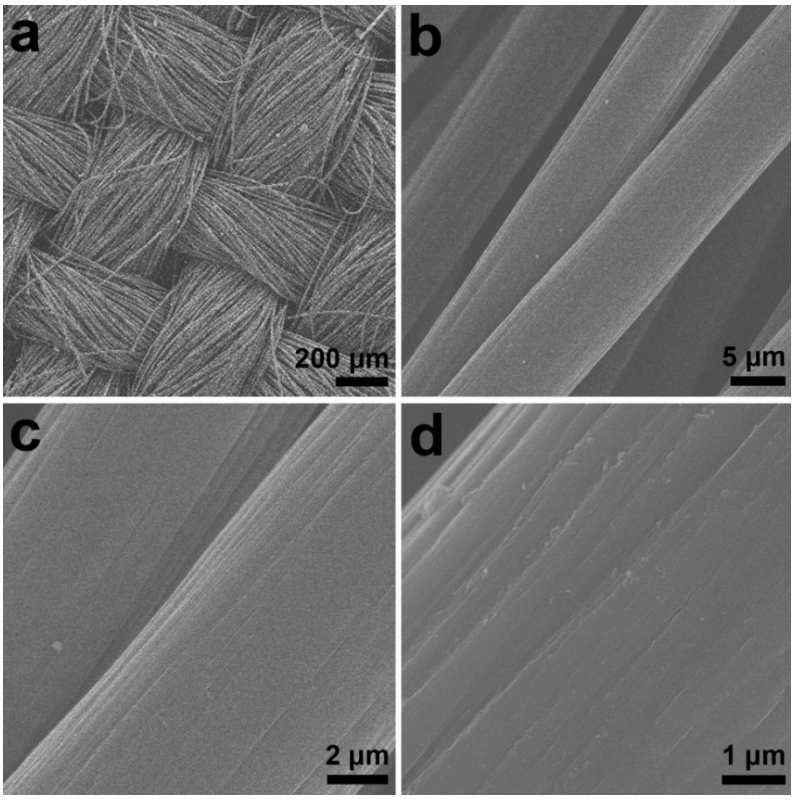

Fig. S1. FESEM images of CC.

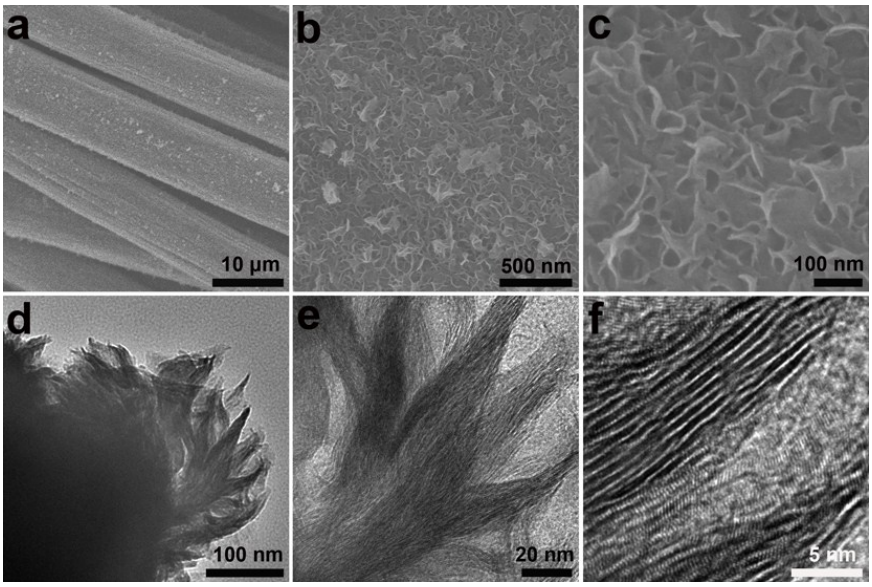

Fig. S2. (a-c) FESEM, (d-e) TEM and (f) HRTEM images of CC@MoS_2 precursor.

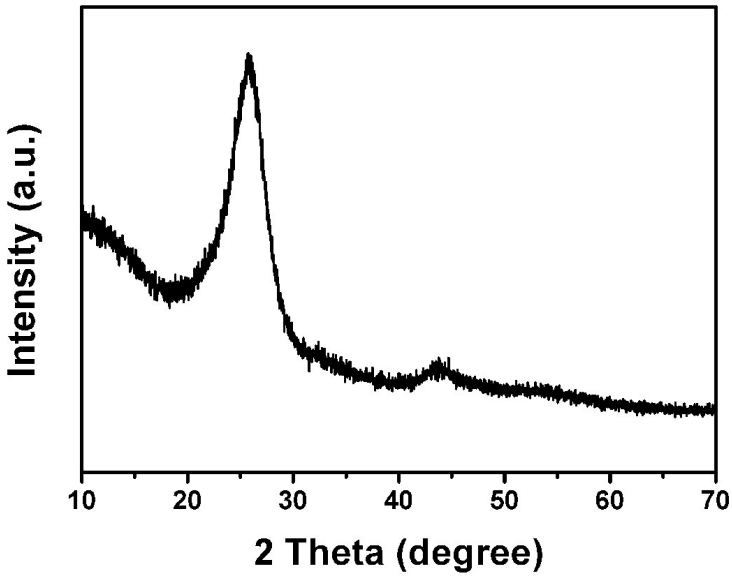

Fig. S3. XRD pattern of CC@MoS_2 precursor.

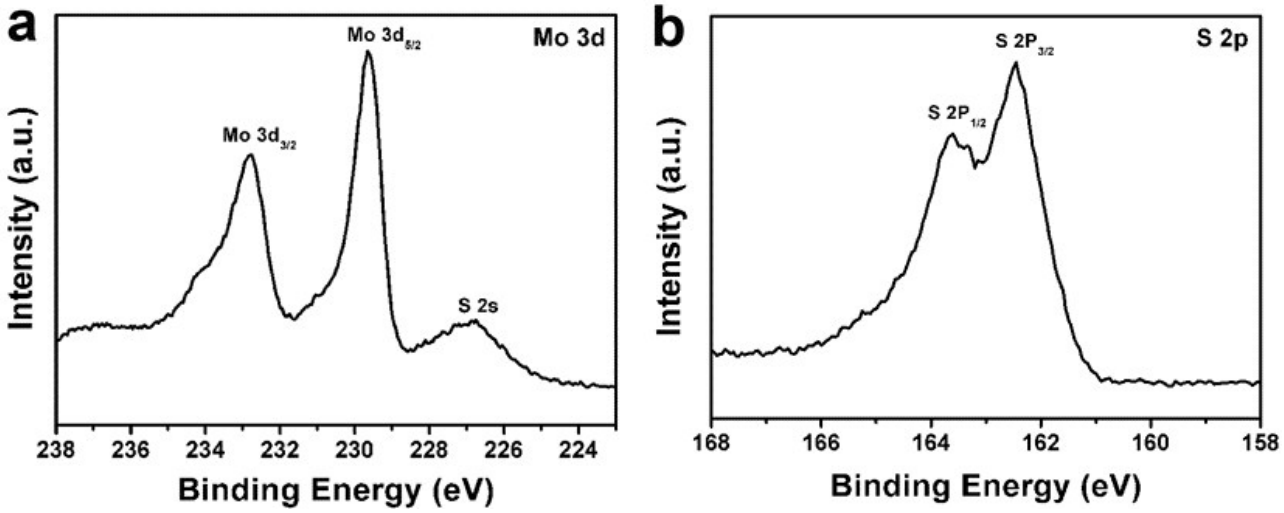

Fig. S4. High-resolution XPS spectra of: (a) Mo 3d, and (b) S 2p of CC@MoS_2 precursor.

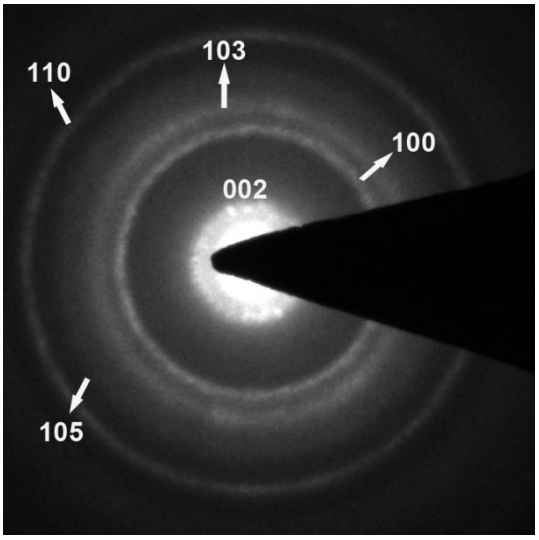

Fig. S5. The SAED pattern of CC@MoS_2.

The SEAD pattern in Fig. S5 can be indexed to the hexagonal MoS_2 phase. Five diffraction rings can be indexed as the (002), (100), (103), (105) and (110) planes, respectively.

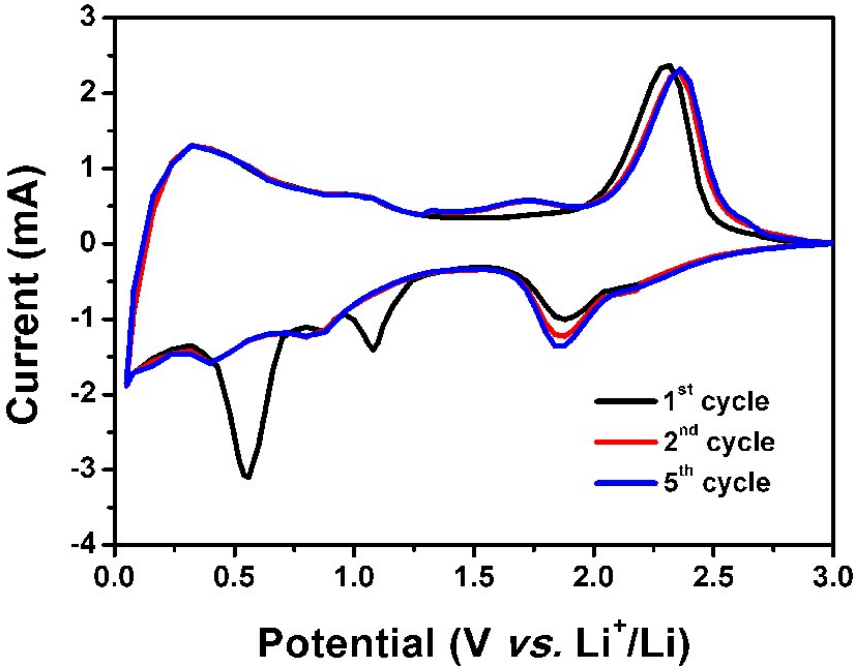

Fig. S6. CV curve of CC@MoS_2 electrode.

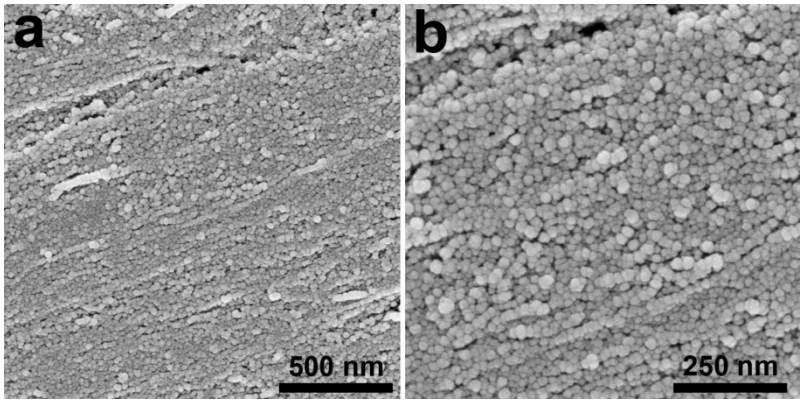

Fig. S7. FESEM images of CC@MoS_2 anode materials after cycling tests.