Electronic Supplementary Information

Hybrids of Mo$_2$C nanoparticles anchored on graphene sheets as anode materials for high performance lithium-ion batteries

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Figure S1 XRD pattern of bulk Mo$_2$C.

Figure S2 SEM image of bulk Mo$_2$C.
Figure S3 (a) A low magnification SEM image of Mo$_2$C(52.6%)/GR hybrid. (b) A typical EDS spectrum of Mo$_2$C(52.6%)/GR hybrid. (c-d) C and Mo elemental mappings.
Figure S4 Nitrogen adsorption/desorption isotherm of pure GR and bulk Mo$_2$C.
**Figure S5** Voltage profiles of (a) Mo$_2$C(38.7%)/GR and (b) Mo$_2$C(62.4%)/GR electrodes. CV curves of (c) Mo$_2$C(38.7%)/GR and (d) Mo$_2$C(62.4%)/GR electrodes at a scan rate of 0.1 mV s$^{-1}$ in the range of 0-3 V.
Figure S6 SEM image of Mo$_2$C(52.6%)/GR hybrid after 100 discharge/charge cycles at the current density of 100 mA g$^{-1}$. 