ADVANCED MATERIALS

Supporting Information

for *Adv. Mater.*, DOI: 10.1002/adma.201203445

Twisting Carbon Nanotube Fibers for Both Wire-Shaped Micro-Supercapacitor and Micro-Battery

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Supporting Information

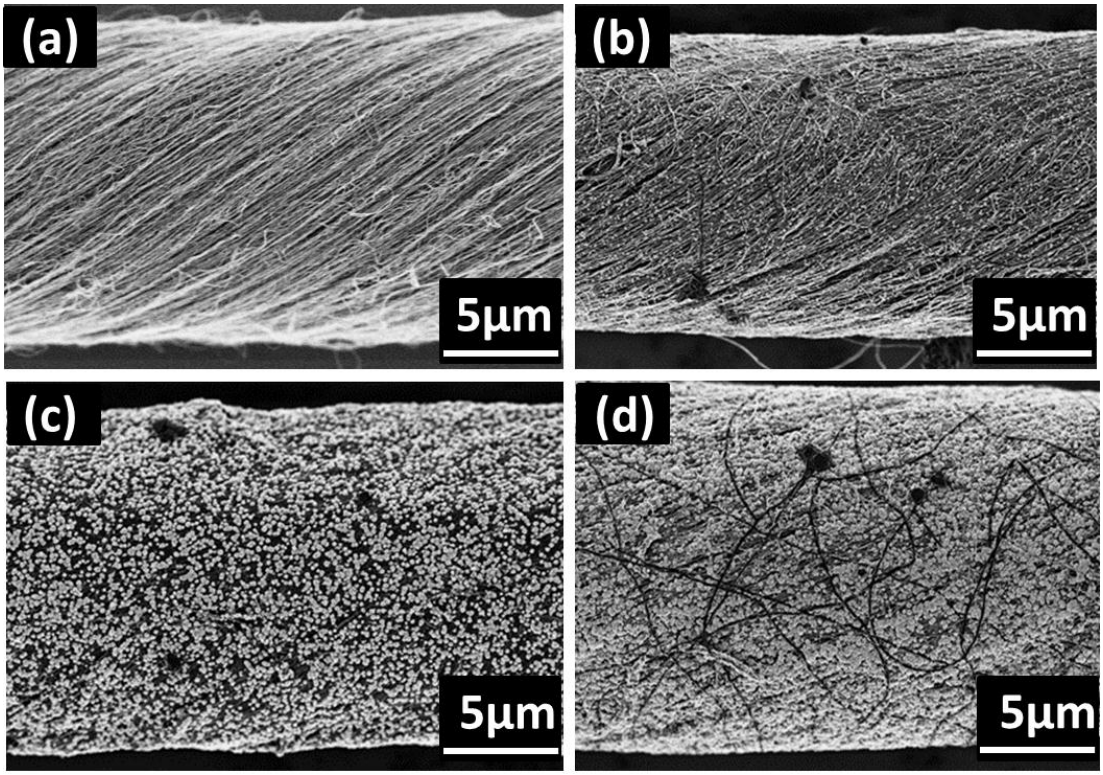

Figure S1. Scanning electron microscopy (SEM) images of aligned MWCNT fibers before and after electrodeposition of MnO_2 nanoparticles at low magnifications. **a.** Bare fiber. **b.** Composite fiber with MnO_2 weight percentage of 0.5%. **c.** Composite fiber with MnO_2 weight percentage of 4.1%. **d.** Composite fiber with MnO_2 weight percentage of 8.6%.

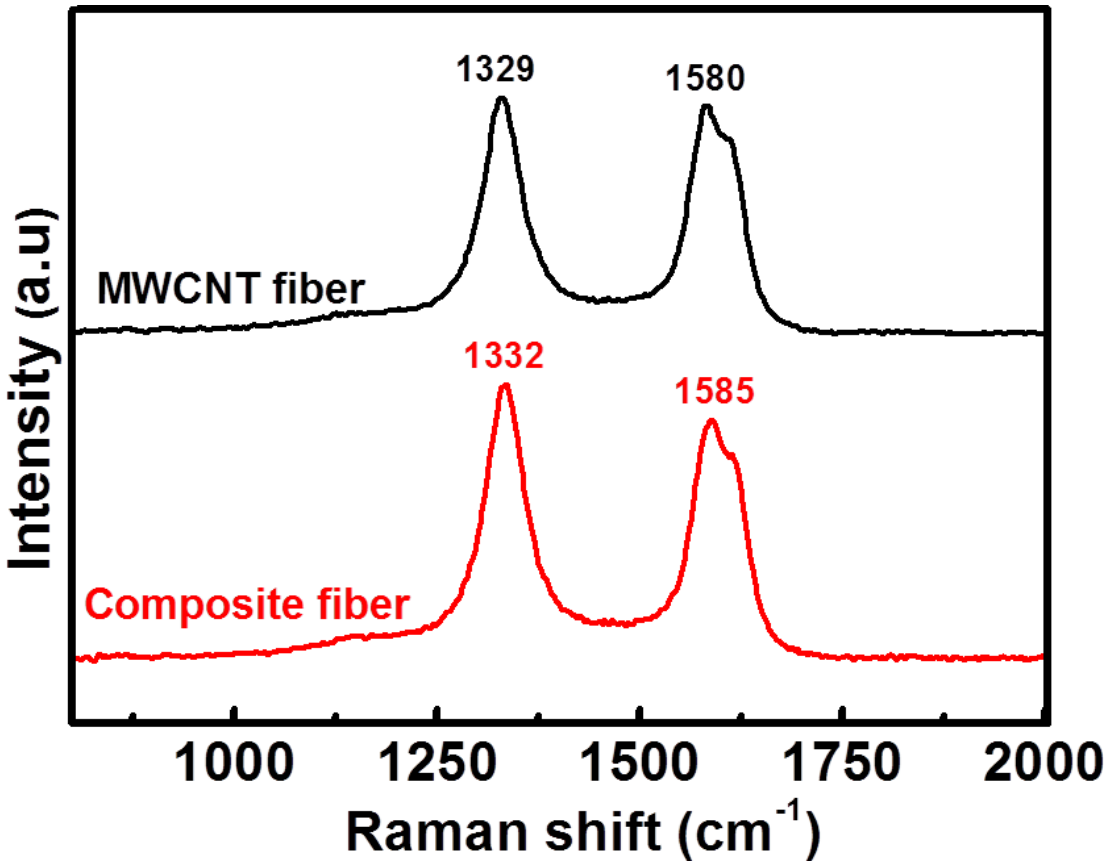

Figure S2. Raman spectra of bare MWCNT and aligned MWCNT/MnO_2 composite fibers

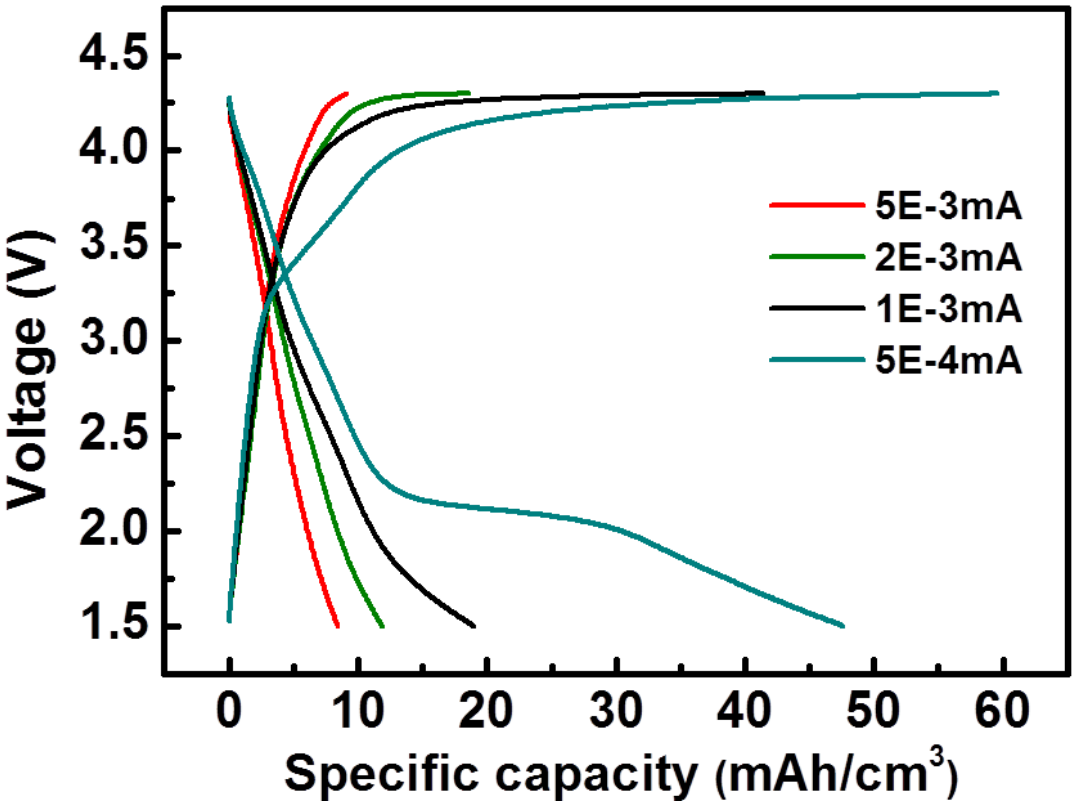

Figure S3. Charge and discharge of a battery based on the aligned MWCNT/MnO_2 composite fiber with MnO_2 weight percentage of 0.5% at different currents.

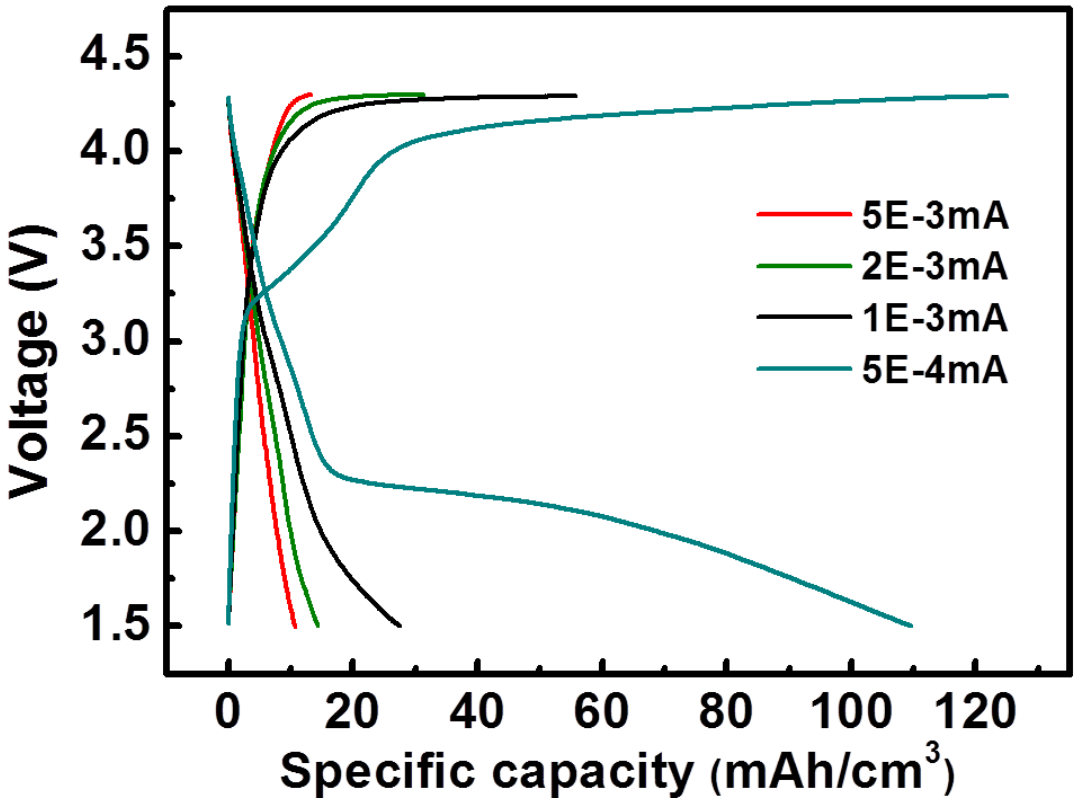

Figure S4. Charge and discharge of a battery based on the aligned MWCNT/MnO_2 composite fiber with MnO_2 weight percentage of 4.1% at different currents.

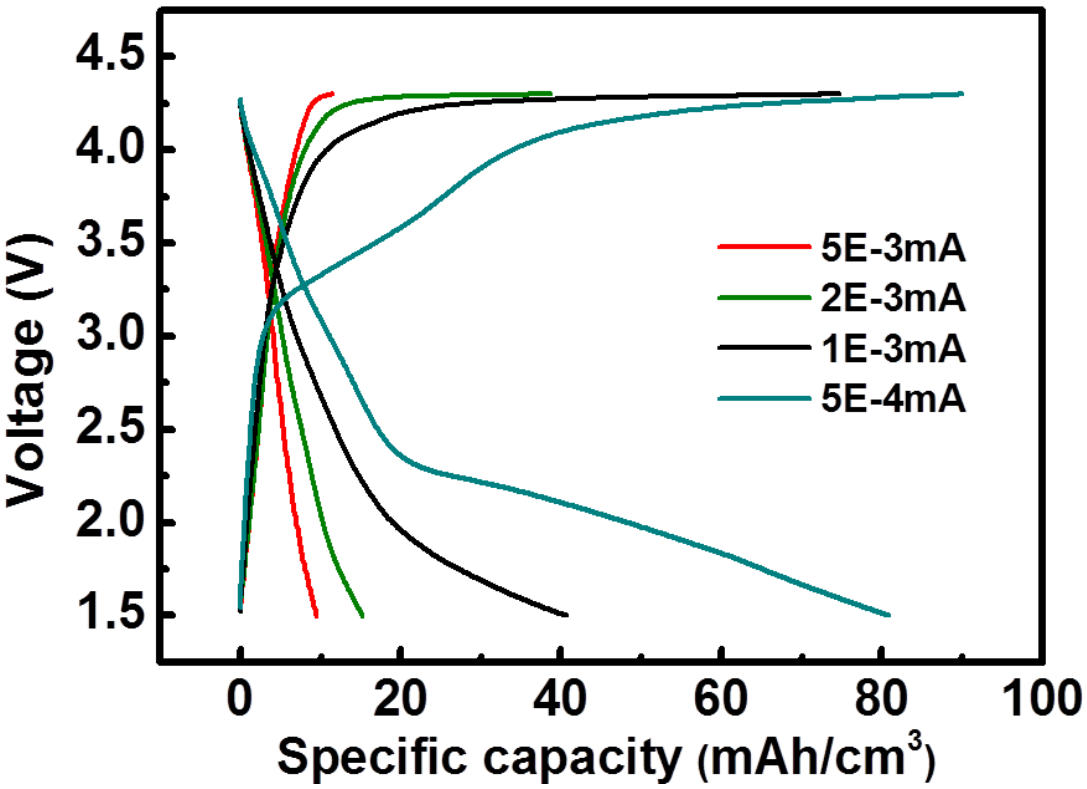

Figure S5. Charge and discharge of a battery based on the aligned MWCNT/MnO_2 composite fiber with MnO_2 weight percentage of 8.6% at different currents.

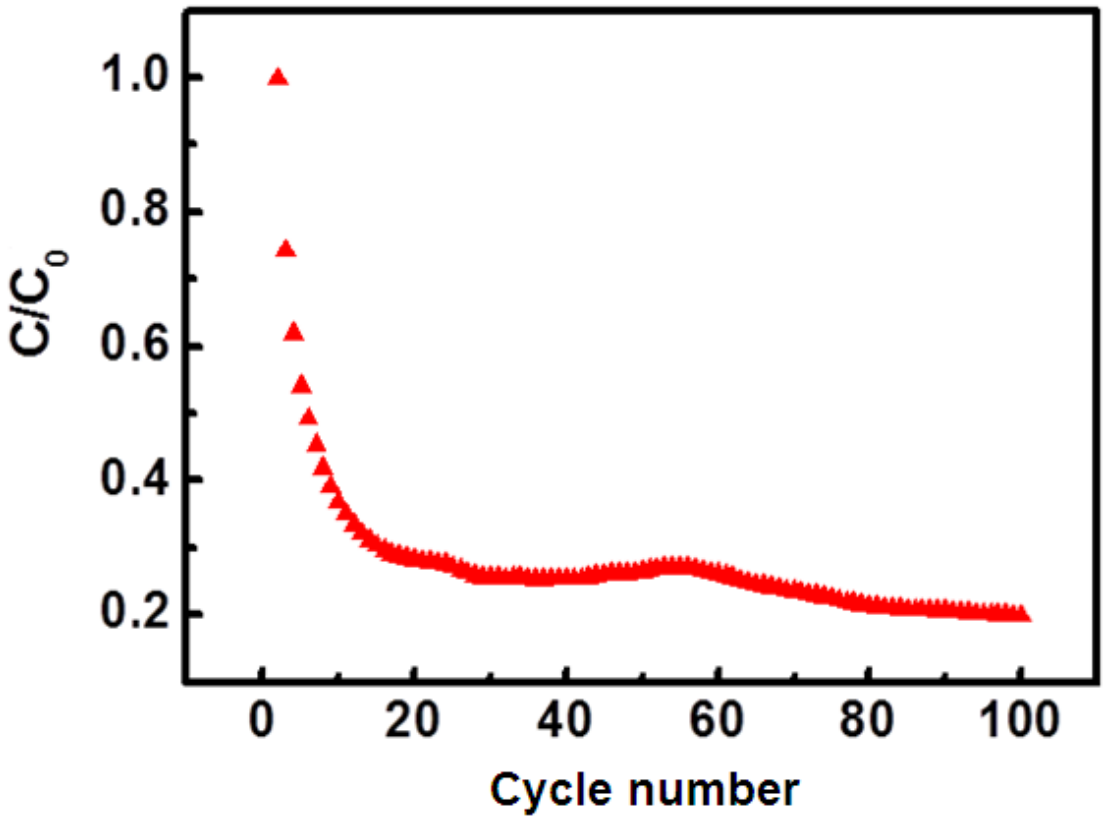

Figure S6. Dependence of the ratio of specific capacitance on cycle number for the battery fabricated from bare fibers. C_0 and C correspond to the specific capacitance at the first and following cycle, respectively.

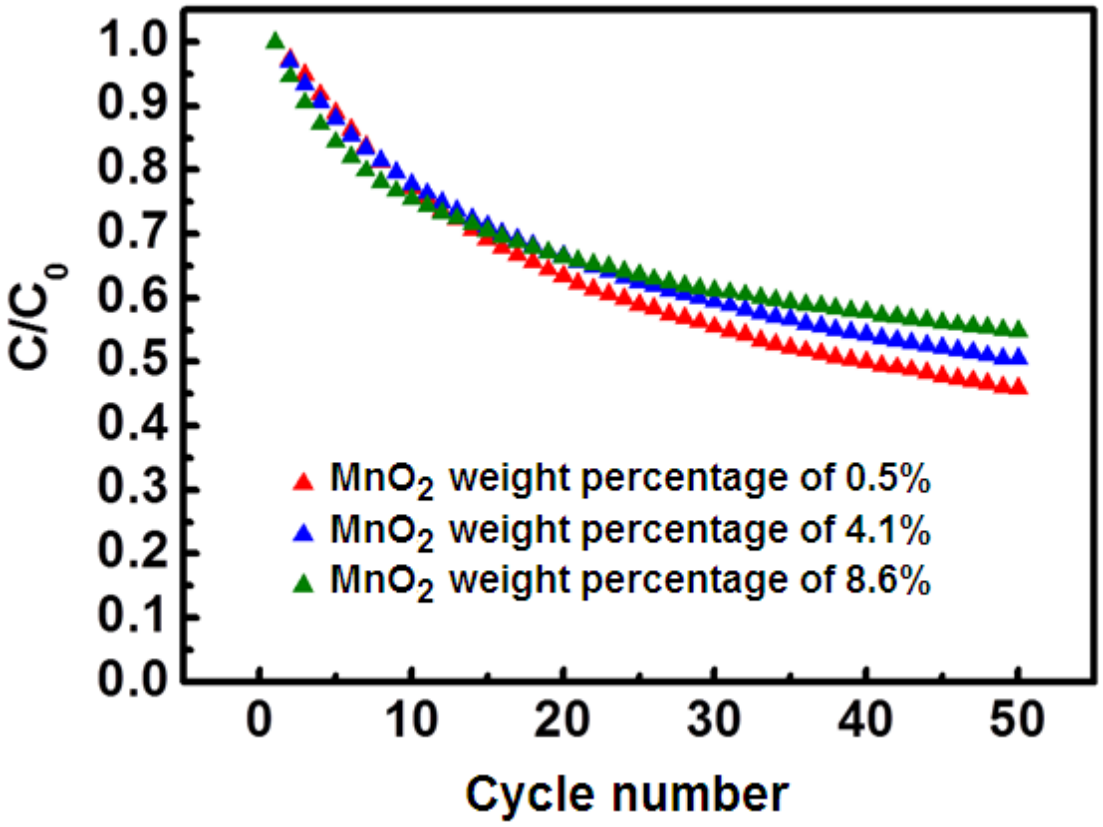

Figure S7. Dependence of the ratio of specific capacitance on cycle number for battery fabricated from composite fibers with different MnO_2 weight percentages. C_0 and C correspond to the specific capacitance at the first and following cycle, respectively.