Supporting information

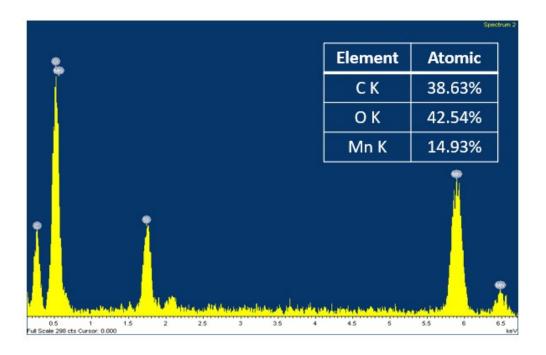


Figure S1. EDS analysis for knitted CNT@MnO₂ fiber supercapacitor, EDS analysis show that the atomic ratio of C, O, Mn are 38.63%, 42.54%, and 14.93% respectively.

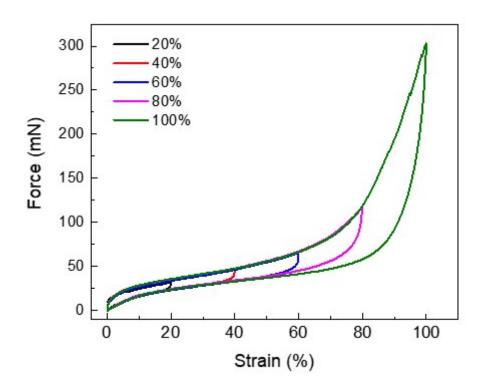


Figure S2. Stress-strain curves of one-bodyknitted MnO₂@CNT fiber supercapacitor measured for stretched states (ε =20, 40, 60, 80,100%).

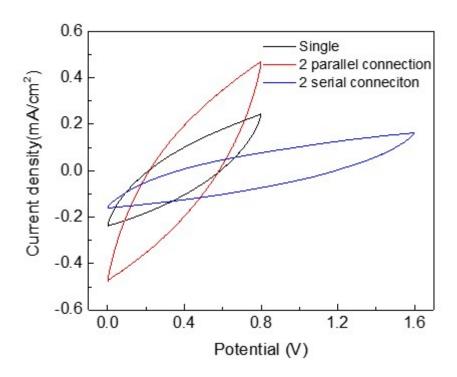


Figure S3. CV curves were measured in parallel and series connection compared to single connection.

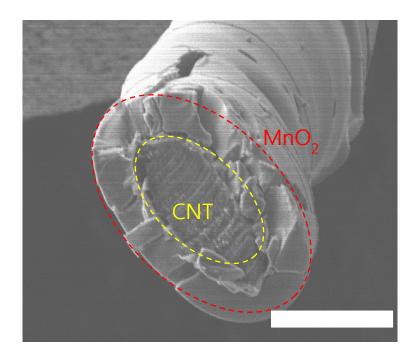


Figure S4. The cross-section SEM image of MnO2@CNT single fiber

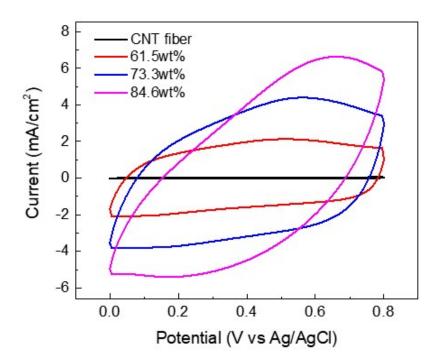


Figure S5. CV curves measured from 10mV/s of MnO2@CNT knitted fiber for gravimetric specific capacitance(bare CNT fiber, 61.5wt%, 73.3wt%, 84.6wt%, respectively)