Supporting Information for

Plasma oxidation of electrospun carbon nanofibers as supercapacitor electrodes

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X-ray diffraction (XRD)

The microstructure of carbon nanofibers was determined by a Rigaku RINT-2000 diffractometer with a source of filtered CuK α radiation. The measurement was performed at 40 kV and 40 mA with the diffraction angle (2 θ) between 5° and 65° at a scan rate of 4 °/min.



Figure S1. XRD patterns of plasma-treated carbon nanofibers.

Fourier transform infrared spectroscopy (FTIR)

FTIR of the plasma-treated carbon nanofibers were characterized in dried KBr powder on JASCO spectrometer model FT/IR 4100.



Figure S2. FTIR spectra of plasma-treated carbon nanofibers.

N₂ adsorption isotherms



Figure S3. N2 adsorption isotherms of plasma-treated carbon nanofibers