Supporting Information

Electrochemistry of controlled-diameter carbon-nanotube fibers at the cross section and sidewall

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Figure S1: (A) Raman spectra of the cross sections of and sidewalls of HD-CNT*f* rods and (B) XPS spectrum of a typical HD-CNT*f*.



Figure S2: Cyclic voltammetry of 2 mMFcMeOH in 0.1 M KNO₃ on one HD-CNT*f* rod electrode of different diameters embedded in a polymer film at a scan rate of 10 mVs⁻¹. HD-CNT*f* cross section diameters: (A) 28 μ m, (B) 49 μ m and (C) 69 μ m.



Figure S3: Cyclic voltammetry of 2 mM K_3 FeCN₆ and 0.1 M KCl on one (A) and three (B) nondensified 69 µm diameter CNT*f* cross sections embedded in a polymer film. CVs were recorded at the scan rates of 5-150 mV s⁻¹ (a to f).



Figure S4: The linear relation between the peak current (i_p) versus scan rate (v) (A) and square root of scan rate ($v^{1/2}$) (B) for non-densified 69 µm diameter CNT*f* cross sections. CVs were recorded at the scan rates of 5-150 mV s⁻¹.