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Table S1: Comparison of some important properties of MWCNTs and UZ-MWCNTs

Properties	MWCNTs	UZ-MWCNTs
BET surface area (m <sup>2</sup> g <sup>-1</sup> )	230	355
Specific capacitance ( $SC_{cd}$ ) at 27 °C ( F g <sup>-1</sup> )	22.2	42.8
Specific capacitance ( $SC_{cd}$ ) at 100 °C ( F g <sup>-1</sup> )	27.7	74.8
Specific energy $(E_{sp})$ of the supercapacitor $(kWkg^{-1})$	20.5	35.8
Time constant $(\tau_0)$ of the supercapacitor at 27 °C (s)	1.55	26,1
Time constant ( $\tau_0$ ) of the supercapacitor at 100 °C (s)	0.68	72.2