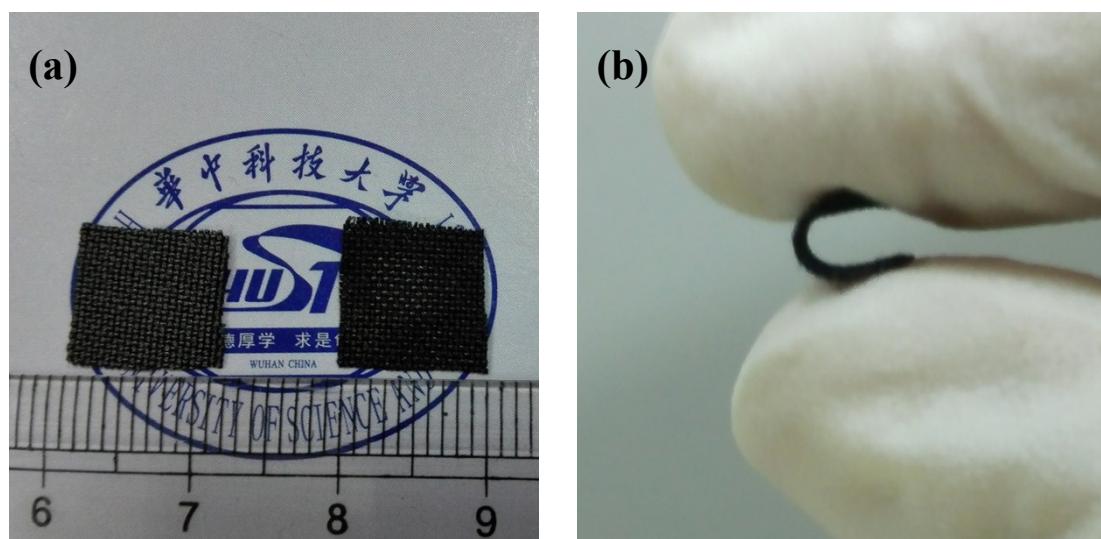


**Supporting Information**

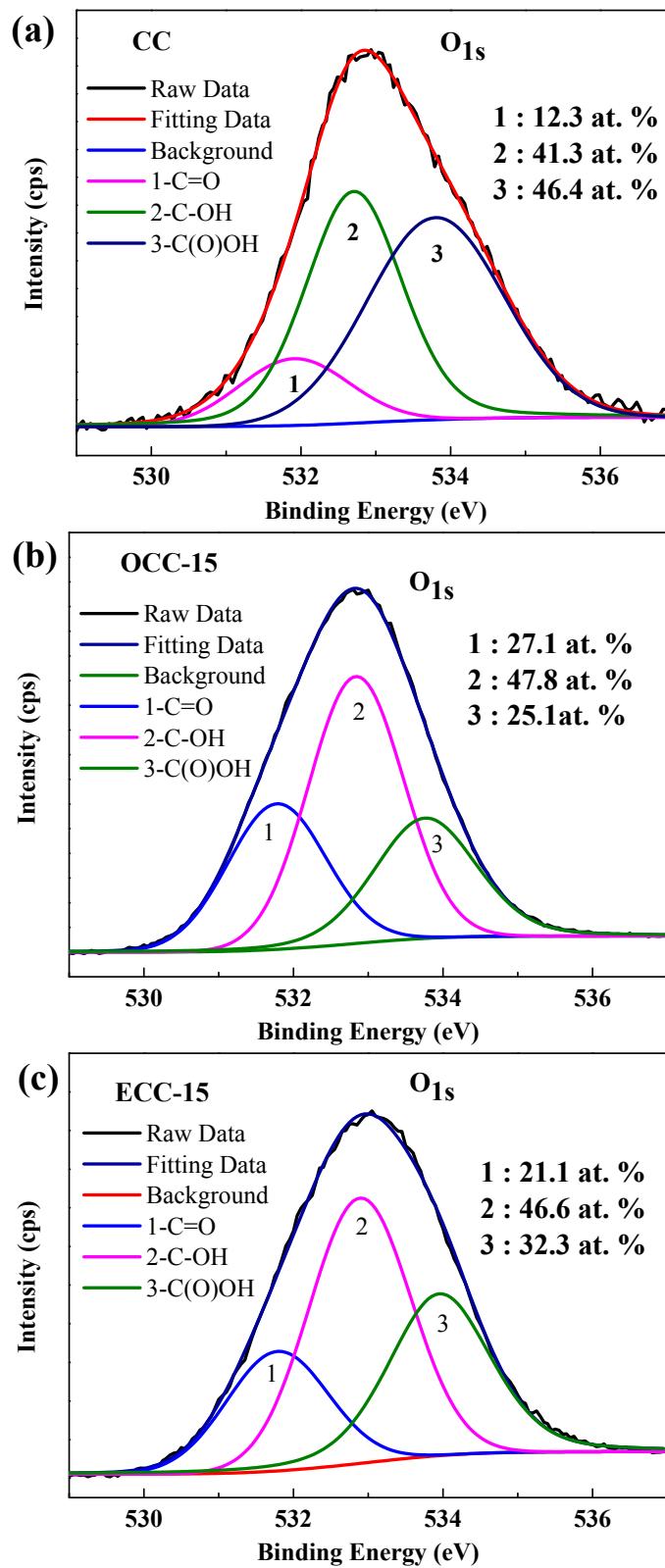
**Electrochemical activation of Carbon Cloth in Aqueous Inorganic Salts**

**Solution for superior capacitive performance**

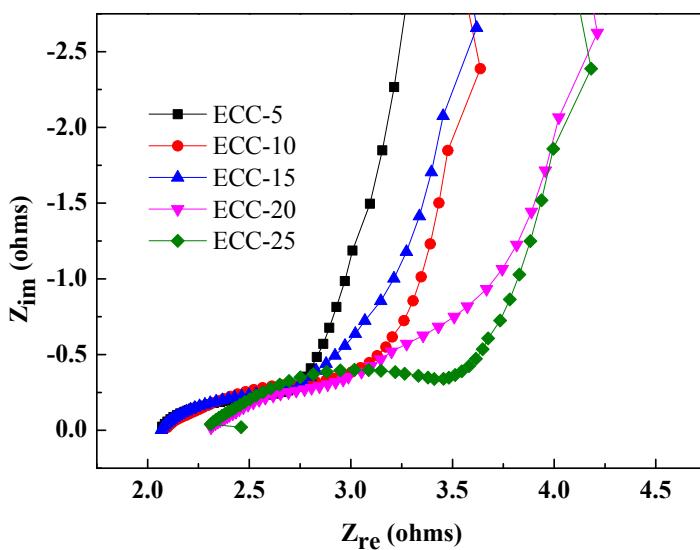
Dong Ye<sup>1</sup>, Yao Yu<sup>1\*</sup>, Jie Tang<sup>2</sup>, Lin Liu<sup>1</sup> and Yue Wu<sup>3</sup>



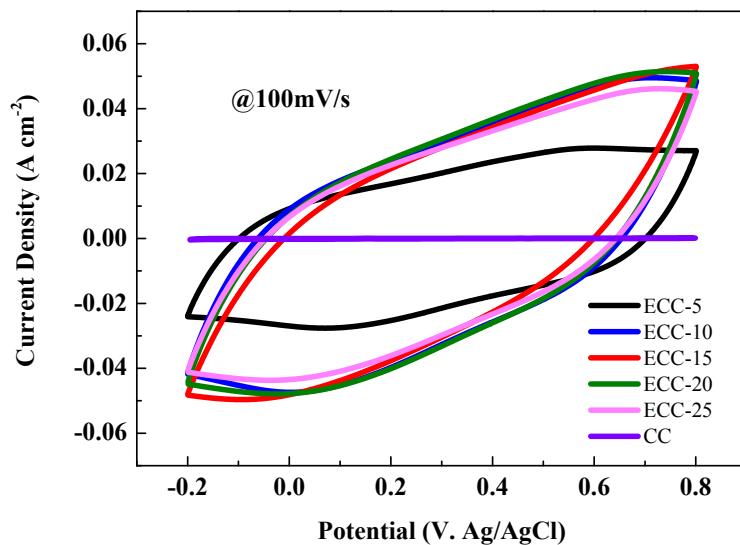
**Figure S1.** (a) Digital photo of the pristine CC (left) and the ECC-15 sample (right); (b) Digital photo for illustrating the good flexibility of the ECC-15 sample.



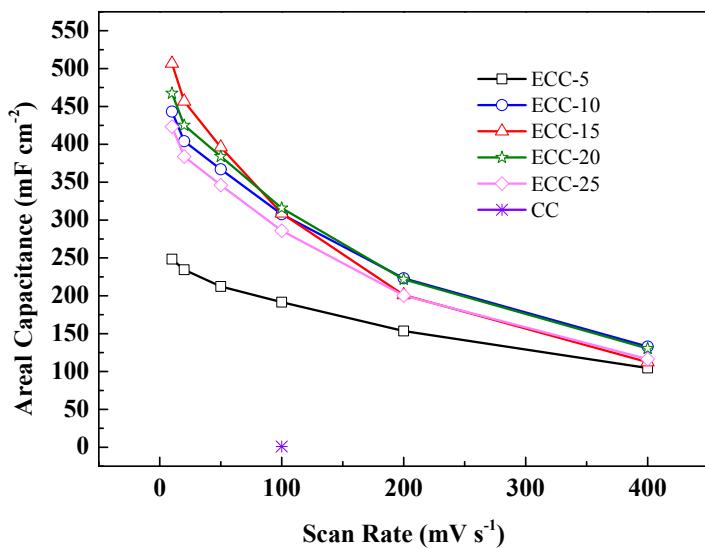
**Figure S2.** The high-resolution O<sub>1s</sub> XPS spectra of the CC (a), OCC-15 (b), and ECC-15 sample (c).



**Figure S3.** Nyquist plot from the ECC-X samples with different activation time.



**Figure S4.** CV curves of the activated CC electrodes collected at a scan rate of  $100 \text{ mV s}^{-1}$  as a function of exfoliation time



**Figure S5.** Areal capacitance calculated from CV curve at a scan rate from 10 to 400 mV s<sup>-1</sup> for all activated CC electrodes.

**Table S1** Given that the carbon fiber cloth is a 3D structure, the areal and volumetric specific capacitances of the pristine CC, OCC-15 and ECC-15 samples. (The volumetric specific capacitance ( $C_V$ ) is equal to the areal specific capacitance ( $C_S$ ) over the thickness (d) of the carbon fiber cloth.)

	Areal Capacitance (mF cm <sup>-2</sup> )		Volumetric Capacitance (mF cm <sup>-3</sup> )	
	From GCD @ 6 mA cm <sup>-2</sup>	From CV @ 20 mV s <sup>-1</sup>	From GCD @ 6 mA cm <sup>-2</sup>	From CV @ 20 mV s <sup>-1</sup>
CC	0.8	0.9	25	28.1
OCC-15	18.7	48.8	584.4	1525
ECC-15	505.5	456.7	15796.9	14271.9