**Supplementary information**

**Cobs porous carbon-based materials with high energy and excellent cycle stability for supercapacitor applications**

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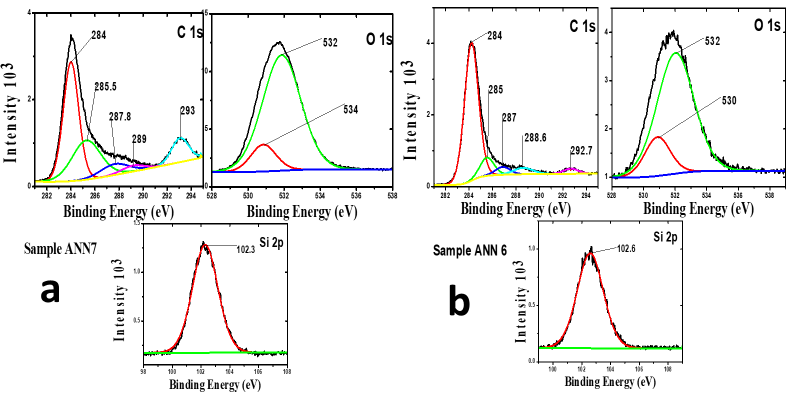
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**Figure S1**: XPS deconvoluted spectra for (a) (ANN7) and (b) ANN6 activated samples



**Figure S2**: GCD for 3 electrode system for ANN6, ANN7 and ANN8 activated samples at different current density.



**Figure S3**: CV scanned at 5mV/s before and after stability test



**Figure S4**: (a) specific capacitance at different current density, (b) the Ragone plots for ANN6, ANN7 and ANN8 based supercapacitors.



**Figure S5**: EIS for zoomed high frequency for ANN6, ANN7, and ANN8 activated carbon scanned at 10mV



**Figure S6:** EIS scanned at different potential 10mV and 20mV



**Figure S7:** Stability by voltage holding at maximum potential for 10hours before discharge



**Figure S8**: Self-discharge of devices from 1.0V after stability test.