

## Supporting Information

### **Elaeocarpus Tectorius derived Phosphorus-doped Carbon as an electrode material for Asymmetric Supercapacitor**

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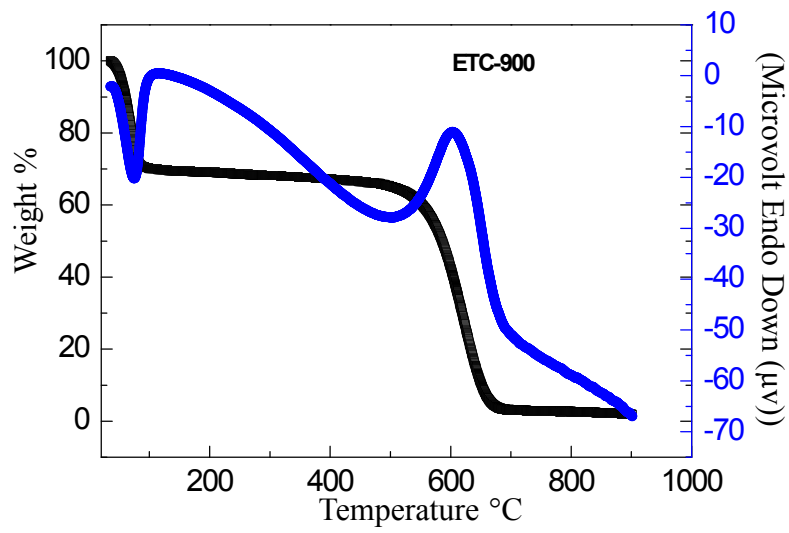
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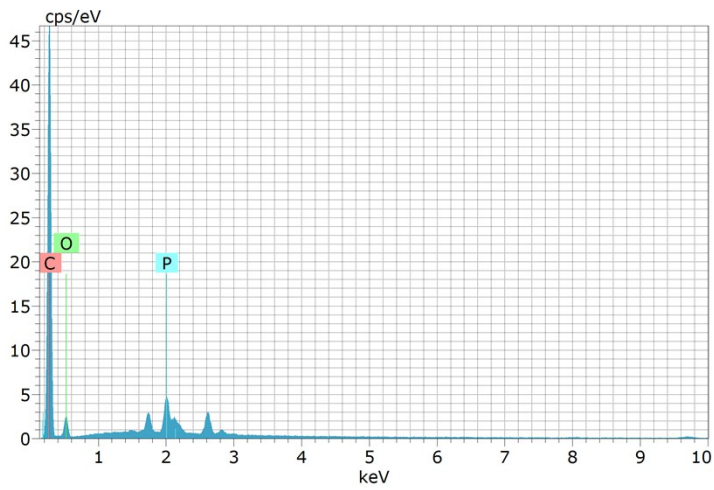
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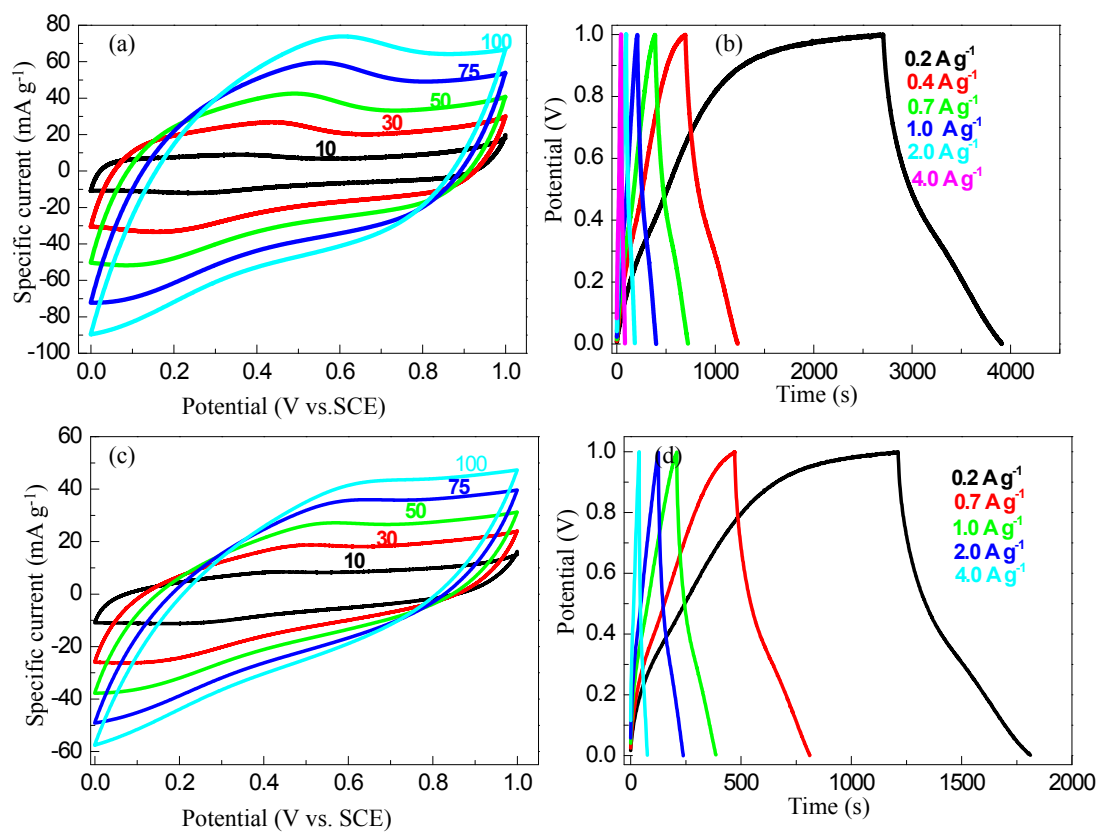
**Fig.S1:** TG-DTA of ETC-900 in Air atmosphere.



**Fig.S2:** SEM-EDAX profile of ETC-900.



**Fig.S3:** (a) and (b) CV and CD profiles of ETC-800; (c) and (d) ETC-700.



**Table S1:** Volumetric and Gravimetric capacitances of ETC-900 in 1M H<sub>2</sub>SO<sub>4</sub>

| Volumetric capacitance<br>(F cm <sup>-3</sup> ) | Gravimetric capacitance<br>(F g <sup>-1</sup> ) | Current density<br>(A g <sup>-1</sup> ) |
|---|---|---|
| 543   | 385   | 0.2                                     |
| 353   | 250   | 0.7                                     |
| 283   | 201   | 1.0                                     |
| 266   | 189   | 2.0                                     |
| 244   | 173   | 5.0                                     |
| 186   | 132   | 10                                      |

**Table S2:** Volumetric and Gravimetric capacitances of ETC-900 in 1M Na<sub>2</sub>SO<sub>4</sub>

| Volumetric capacitance<br>(F cm <sup>-3</sup> ) | Gravimetric capacitance<br>(F g <sup>-1</sup> ) | Current density<br>(A g <sup>-1</sup> ) |
|---|---|---|
| 286   | 203   | 0.3                                     |
| 274   | 195   | 0.6                                     |
| 267   | 190   | 1.3                                     |
| 240   | 170   | 3.0                                     |
| 225   | 160   | 6.3                                     |
| 187   | 133   | 10                                      |