Supplementary Materials

Rapid microwave activation of waste palm into hierarchical porous carbons for supercapacitors using biochars from different carbonization temperature as catalysts

Chaozheng Liu,^{abc} Weimin Chen,^{ab} Meichun Li,^{abc} Shu Hong,^{ab} Wanzhao Li,^{ab} Mingzhu Pan,^{ab} Qinglin Wu^c and Changtong Mei *^{ab}

- ^a College of Materials Science and Engineering, Nanjing Forestry University, Nanjing 210037, China. E-mail: mei@njfu.edu.cn; Tel: +86-25-5427742.
- ^b Jiangsu Engineering Research Center of Fast-growing Trees and Agri-fiber Materials, Nanjing 210037, China
- ^c School of Renewable Natural Resources, Louisiana State University, Baton Rouge, LA 70803, USA











Fig. S4 CV curves of the PC-400 (a), PC-500 (b), PC-600 (c) and PC-700 (d) at different scan rates from 5 to $100 \text{ mV} \cdot \text{s}^{-1}$ in a voltage range from -0.4 V to 0.4 V.



Fig. S5 GCD curves of the PC-400 (a), PC-500 (b), PC-600 (c) and PC-700 (d) at various current densities from 0.5 to $10 \text{ A} \cdot \text{g}^{-1}$ in a voltage range from -0.4 V to 0.4 V.



Fig. S6 Cycling stability performance at a current density of 5 A·g⁻¹ after 2000 cycles.