Electronic Supplementary Material (ESI) for Green Chemistry

Recyclable Route to Produce Biochar with Tailored Structure and Surface Chemistry for Enhanced Charge Storage

Mengdi Zhang, Chang Yu*, Zheng Ling, Jinhe Yu, Shaofeng Li, Changtai Zhao, Hongling Huang and Jieshan Qiu*

State Key Lab of Fine Chemicals, School of Chemical Engineering, Liaoning Key Lab for Energy Materials and Chemical Engineering, Dalian University of Technology, Dalian 116024, China *Corresponding author: E-mail address: chang.yu@dlut.edu.cn (C.Yu); jqiu@dlut.edu.cn (J. Qiu)



Fig. S1 XRD patterns of original NaCl salt and recovered NaCl salt. The inset is digital photograph of recovered NaCl salt.



Fig. S2 SEM images of 1G-30SC-750.



Fig. S3 SEM image of G-750.



Fig. S4 SEM images of (a) 1G-30SC-650, (b) 1G-20SC-750, (c) 1G-40SC-750 and (d) 1G-30SC-850.



Fig. S5 (a) N₂ adsorption/desorption isotherms and (b) pore size distribution of G-750.



Fig. S6 Raman spectra of as-made biochar.



Fig. S7 Galvanostatic charge-discharge profiles of 1G-30SC-750 at the current densities of 1-20 A $g^{\text{-}1}$.



Fig. S8 Capacitance retention of 1G-30SC-750, 1G-40SC-750 and 1G-20SC-750 at various current densities.



Fig. S9 Capacitance retention of 1G-30SC-650, 1G-30SC-750 and 1G-30SC-850 at various current densities.