Supplementary Information

Electrochemical reduced graphene oxide with porous structure as a binder-free electrode for high-rate supercapacitor

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Figure S1 (a) Cyclic voltammogram of stainless steel electrode in 2.5mgmL⁻¹ GO aqueous solution. (b) Electrochemical impedance spectra of ERGO synthesized for 0.5, 1, 2 and 4 hours respectively.



Figure S2 (a) Cyclic voltammetric curves of ERGO-PVDF at various scan rates (10, 20, 50 and 100 mV s⁻¹. (b) Cyclic voltammetric curves of ERGO synthesized for 2 hours and ERGO-PVDF at the scan rate of 50 mV s⁻¹.



Figure S3 Charge-discharge curves of ERGO-PVDF at different current densities (0.5, 1.0, 2.0 and 5 mA cm⁻²)