

Supplementary Information

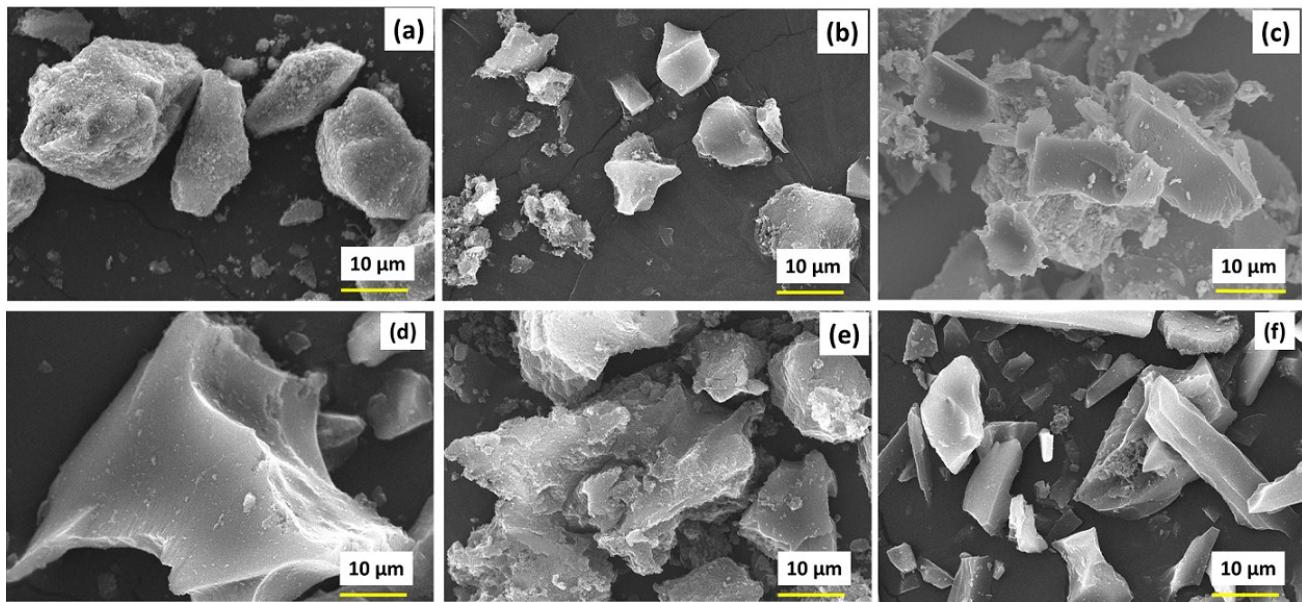


Fig. S1 SEM images of (a) EuAC-0, (b) EuAC-1, (c) EuAC-2, (d) EuAC-3, (e) EuAC-4, and (f) commercial AC

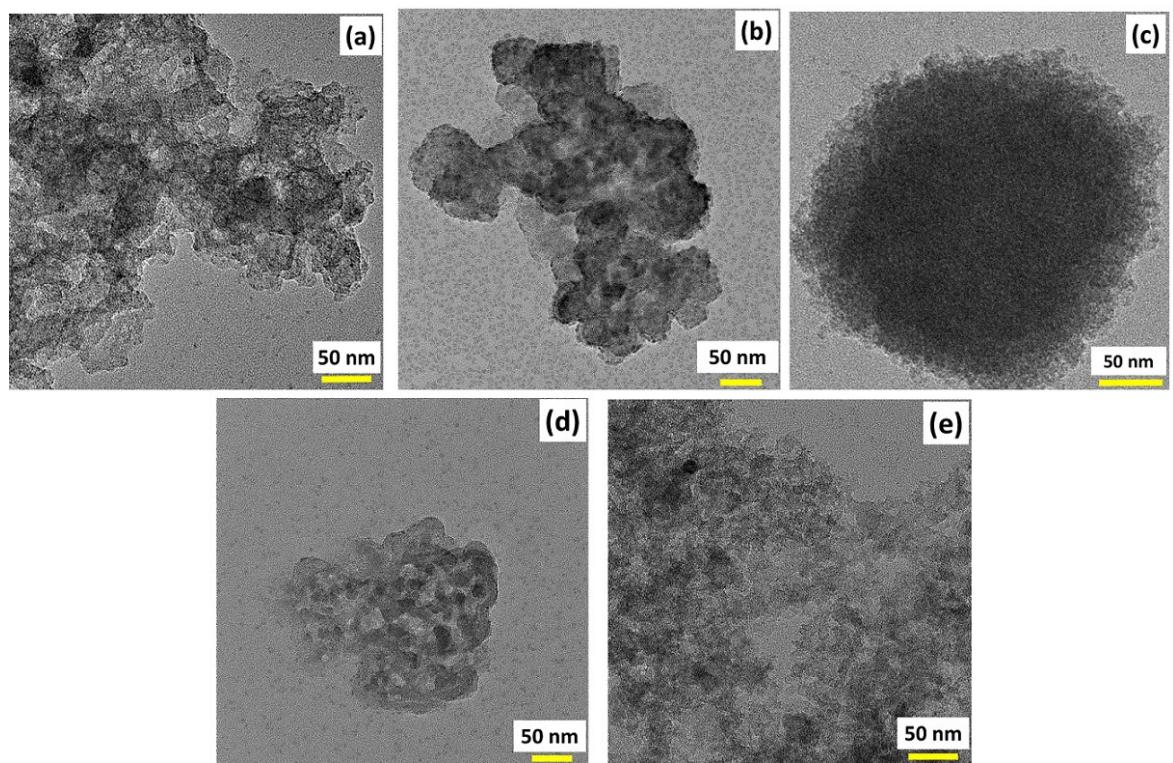


Fig. S2 TEM images of activated carbon samples, (a) EuAC-0, (b) EuAC-1, (c) EuAC-2, (d) EuAC-3, and (e) EuAC-4

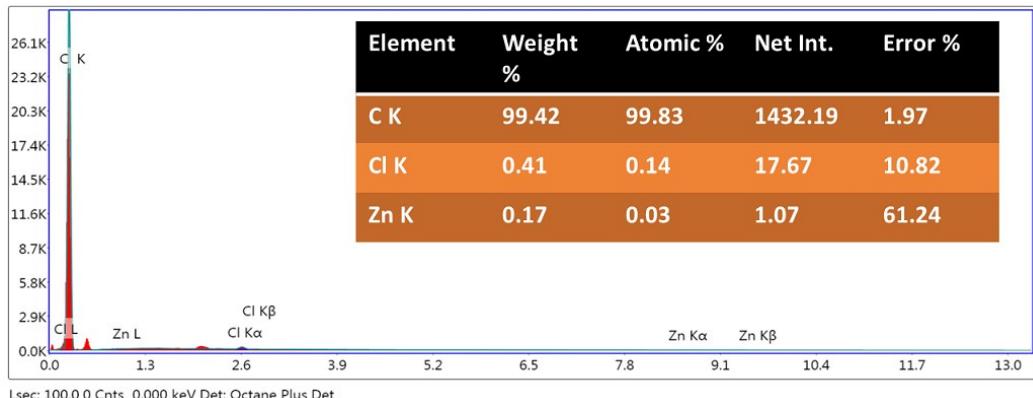


Fig. S3 EDAX of EuAC-2 sample

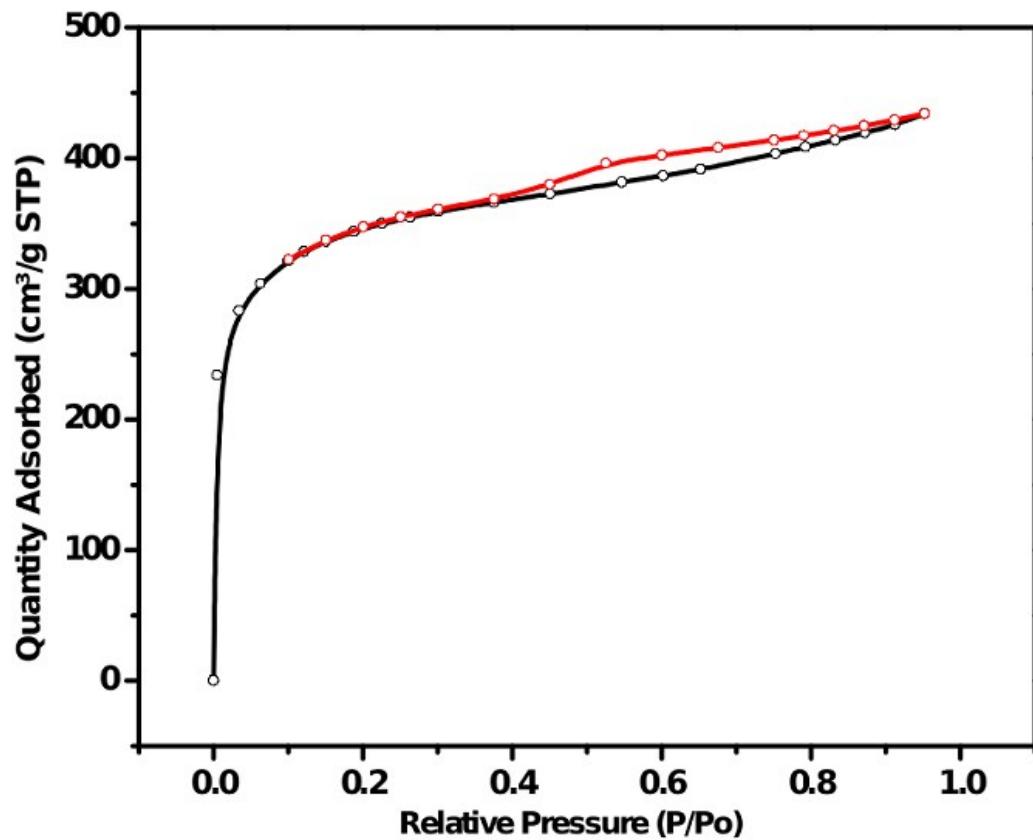


Fig. S4 BET isotherm of commercial activated carbon

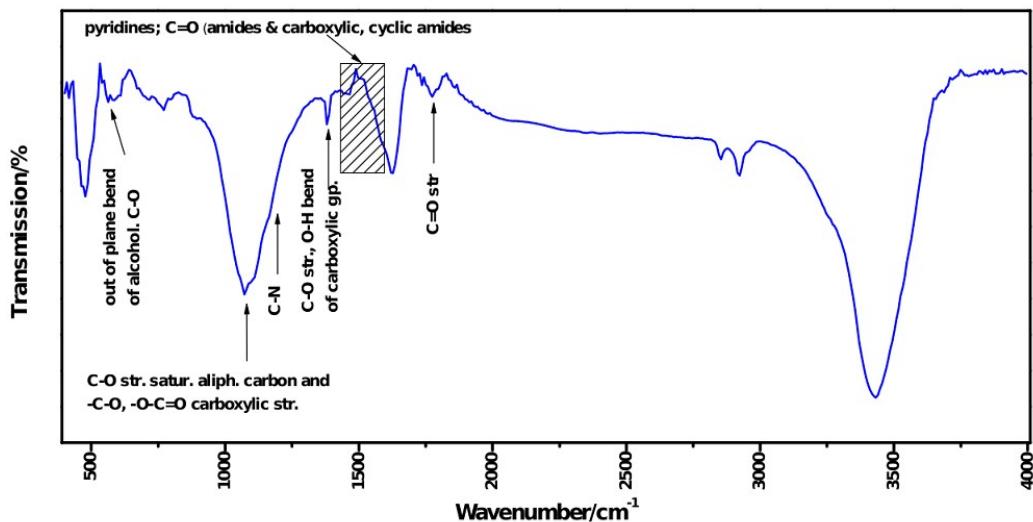


Fig. S5 FTIR spectrum of EuAC-2 sample

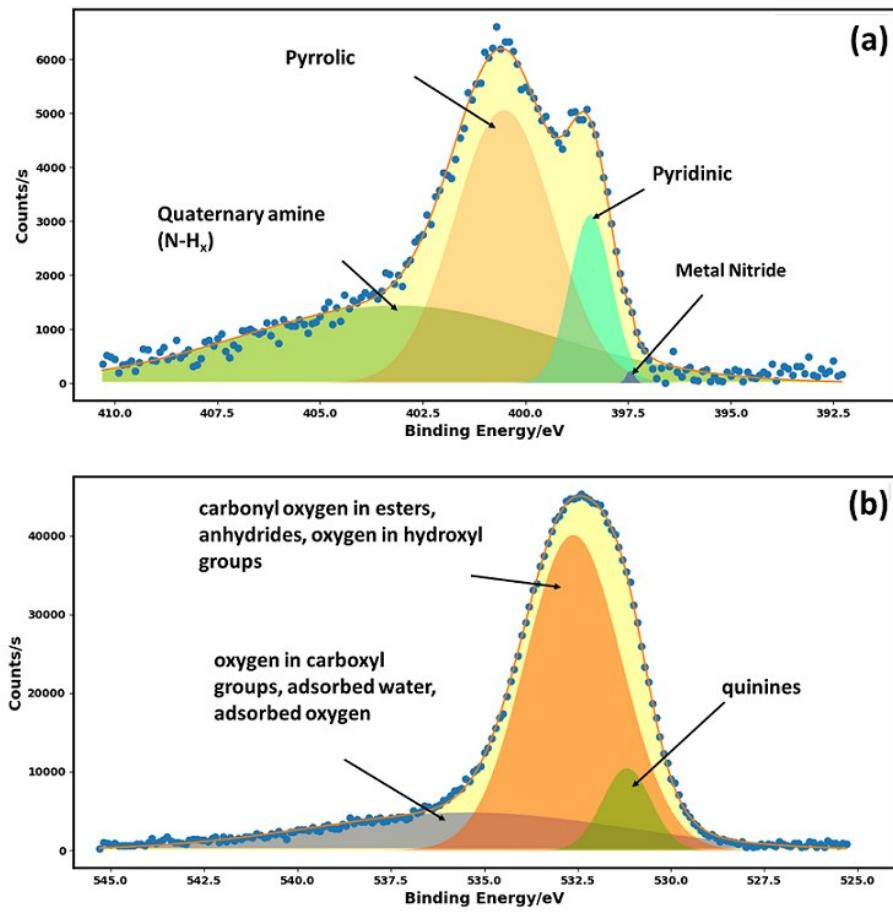


Fig. S6 XPS spectrum of EuAC-2 samples showing (a) N1s, and (b) O1s peaks

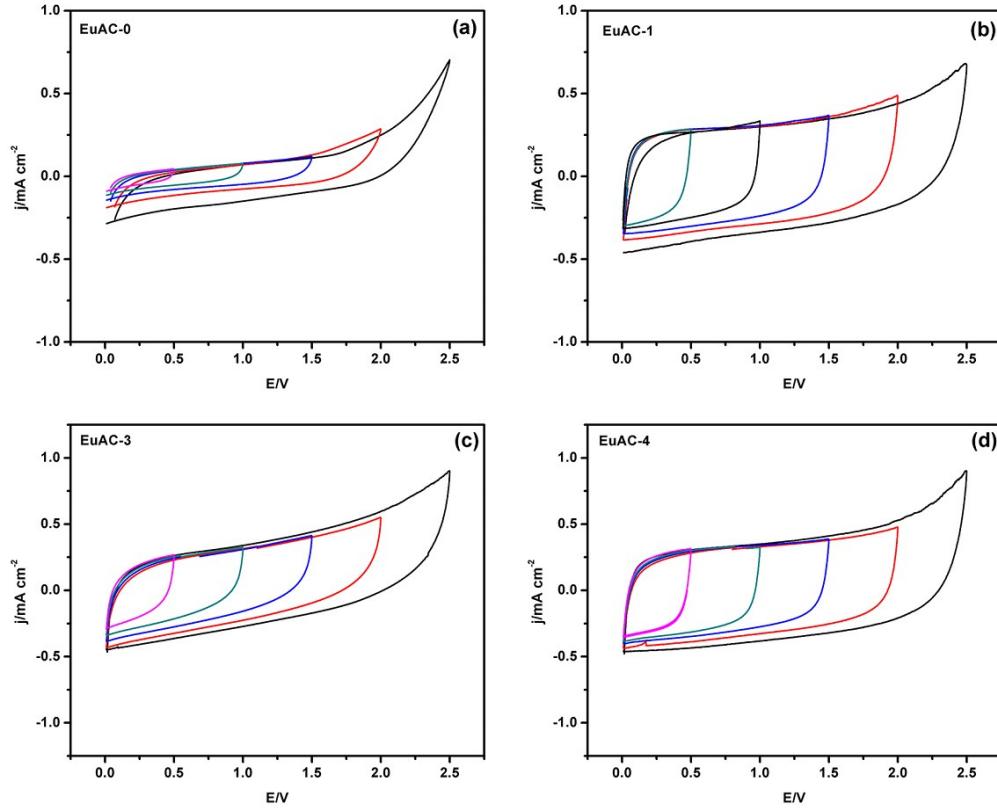


Fig. S7 CV plots for different maximum potential for symmetric EDLC cells made using (a) EuAC-0, (b) EuAC-1, (c) EuAC-3, and (d) EuAC-4

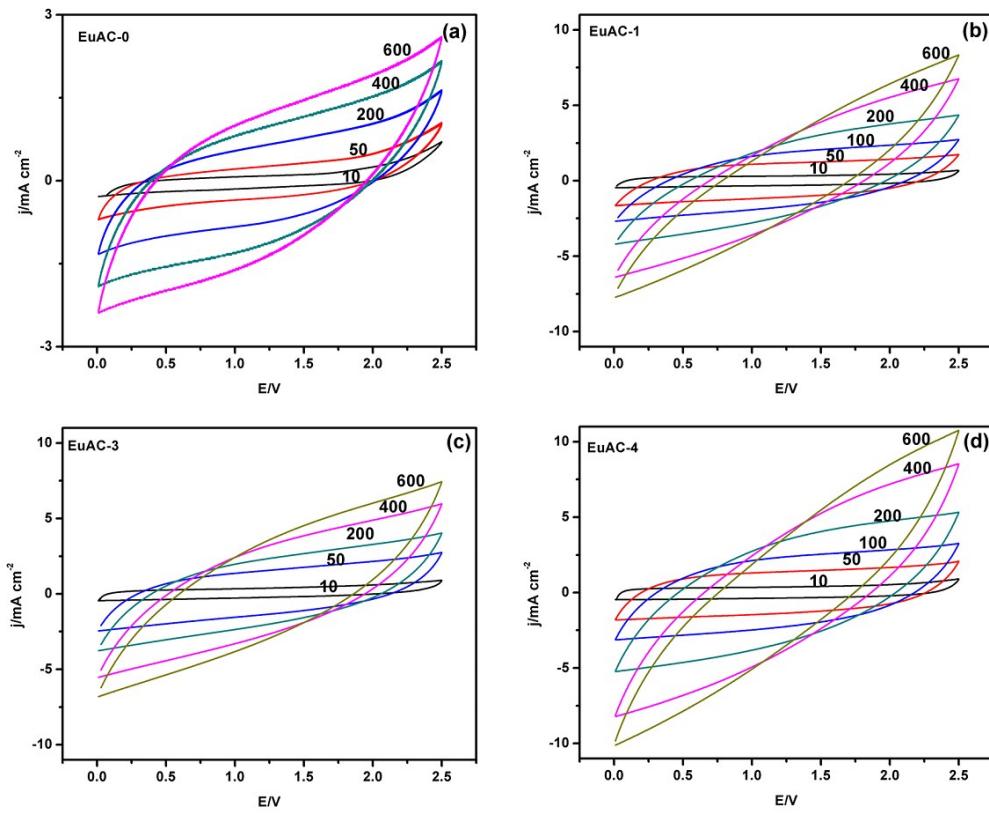


Fig. S8 CV plots at different scan rates for symmetric EDLC cells made using (a) EuAC-0, (b) EuAC-1, (c) EuAC-3, and (d) EuAC-4

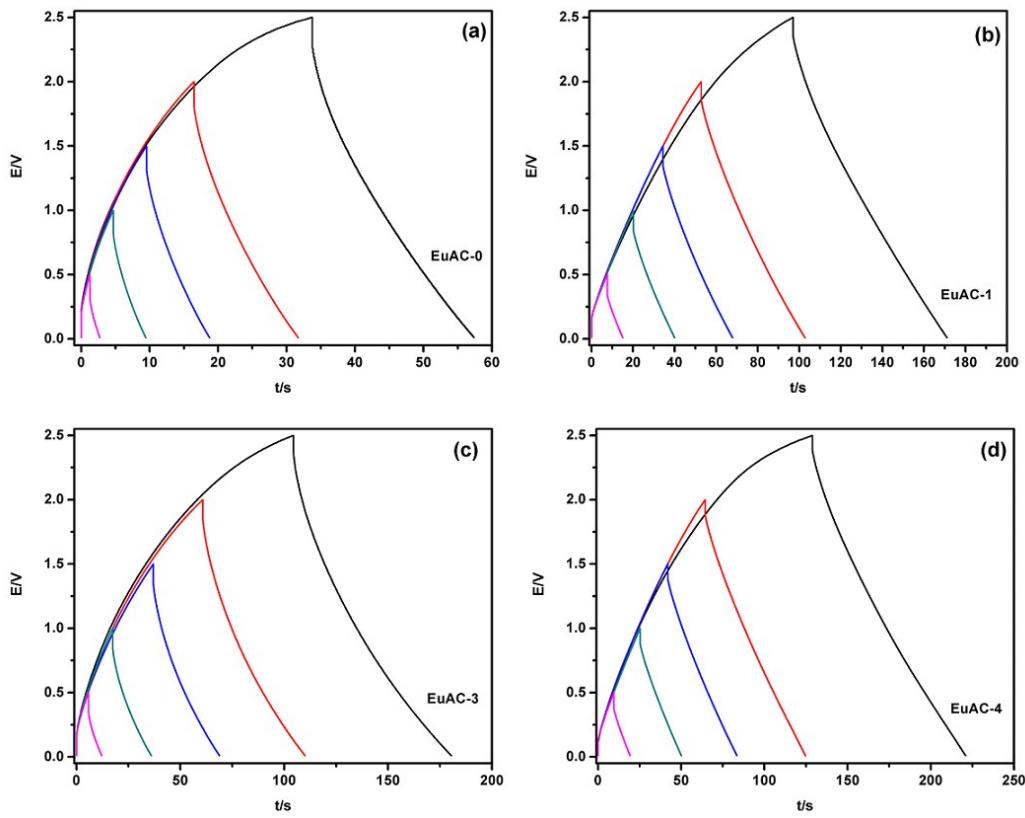


Fig. S9 GCD plots for cycling upto varying maximum potentials for symmetric EDLC cells made using (a) EuAC-0, (b) EuAC-1, (c) EuAC-3, and (d) EuAC-4

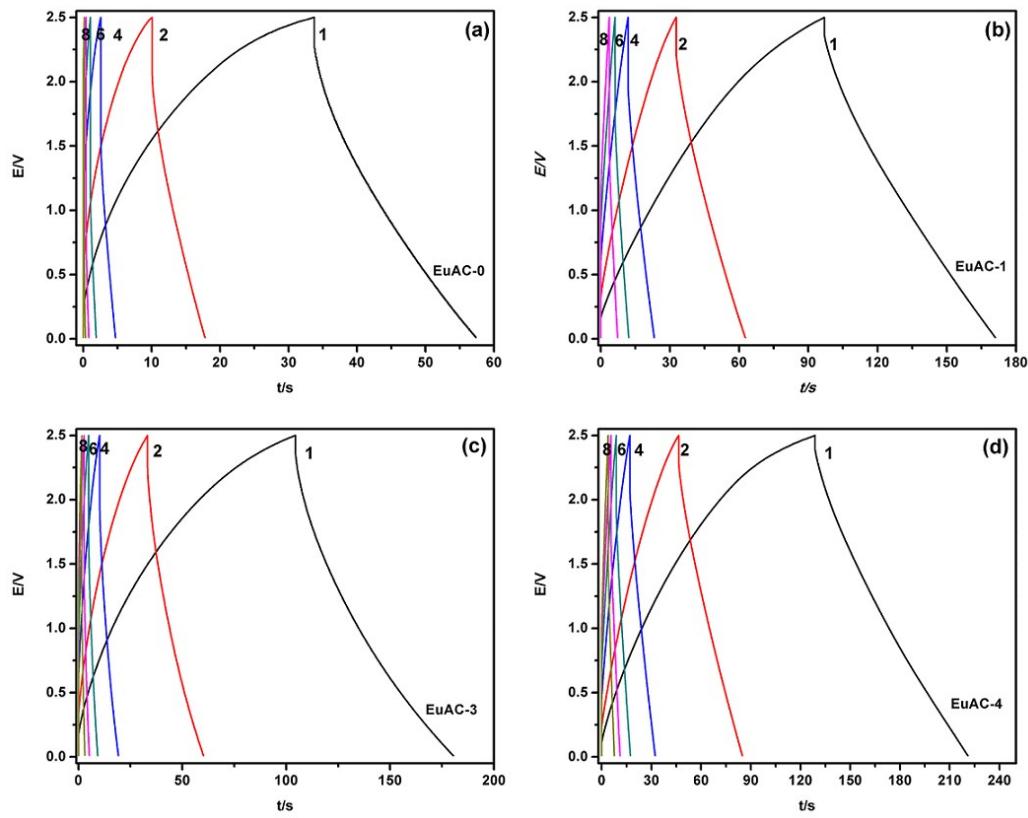


Fig. S10 GCD plots at different current rates for symmetric EDLC cells made using (a) EuAC-0, (b) EuAC-1, (c) EuAC-3, and (d) EuAC-4

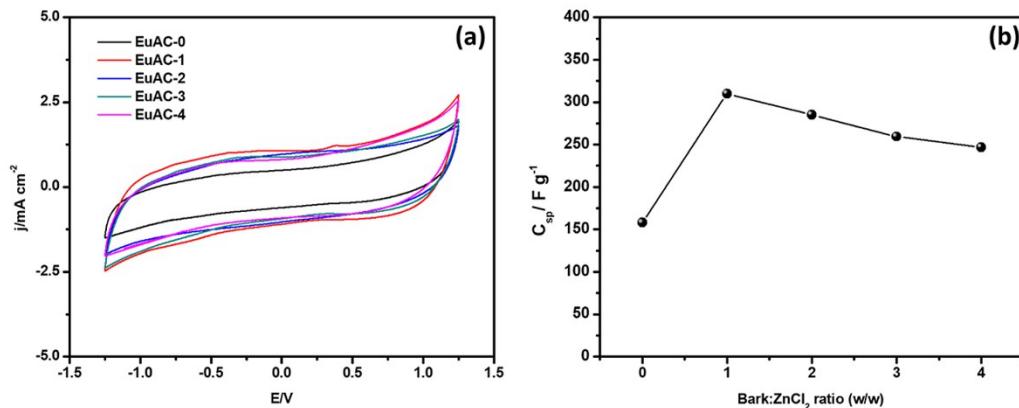


Fig. S11 (a) CV plots for half cells at scan rate of 10 mV s⁻¹, (b) Capacitance value at scan rate of 10 mV s⁻¹ for various activated carbon samples

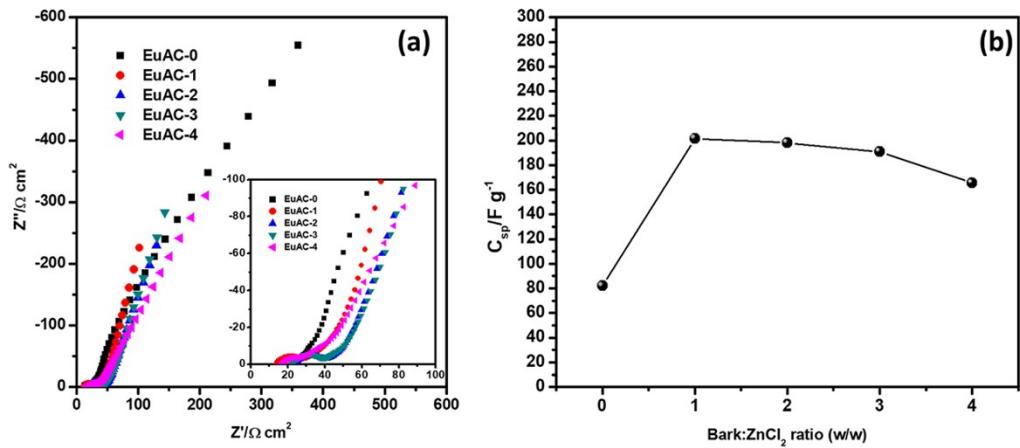


Fig. S12 (a) Nyquist plots for half cells, (b) Capacitance values, for various activated carbon samples

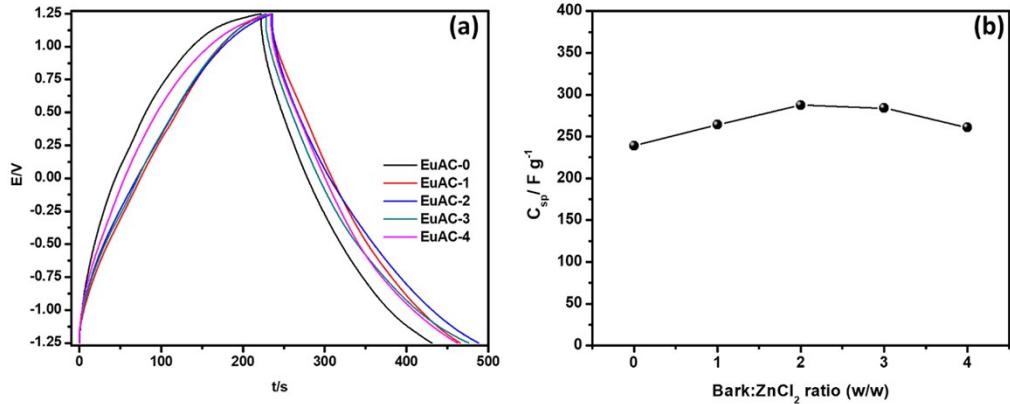


Fig. S13 (a) GCD plots for half cells at current density of 1 mA cm⁻², (b) Capacitance value at 1 mA cm⁻² for various activated carbon samples