

Supplementary Materials

Symmetric Supercapacitor Electrodes from KOH Activation of Pristine, Carbonized and Hydrothermally Treated *Melia Azedarach* Stones

Carlos Moreno-Castilla*, Helena García-Rosero, and Francisco Carrasco-Marín

Departamento de Química Inorgánica, Universidad de Granada, 18071 Granada, Spain

* Corresponding author: E-mail: cmoreno@ugr.es

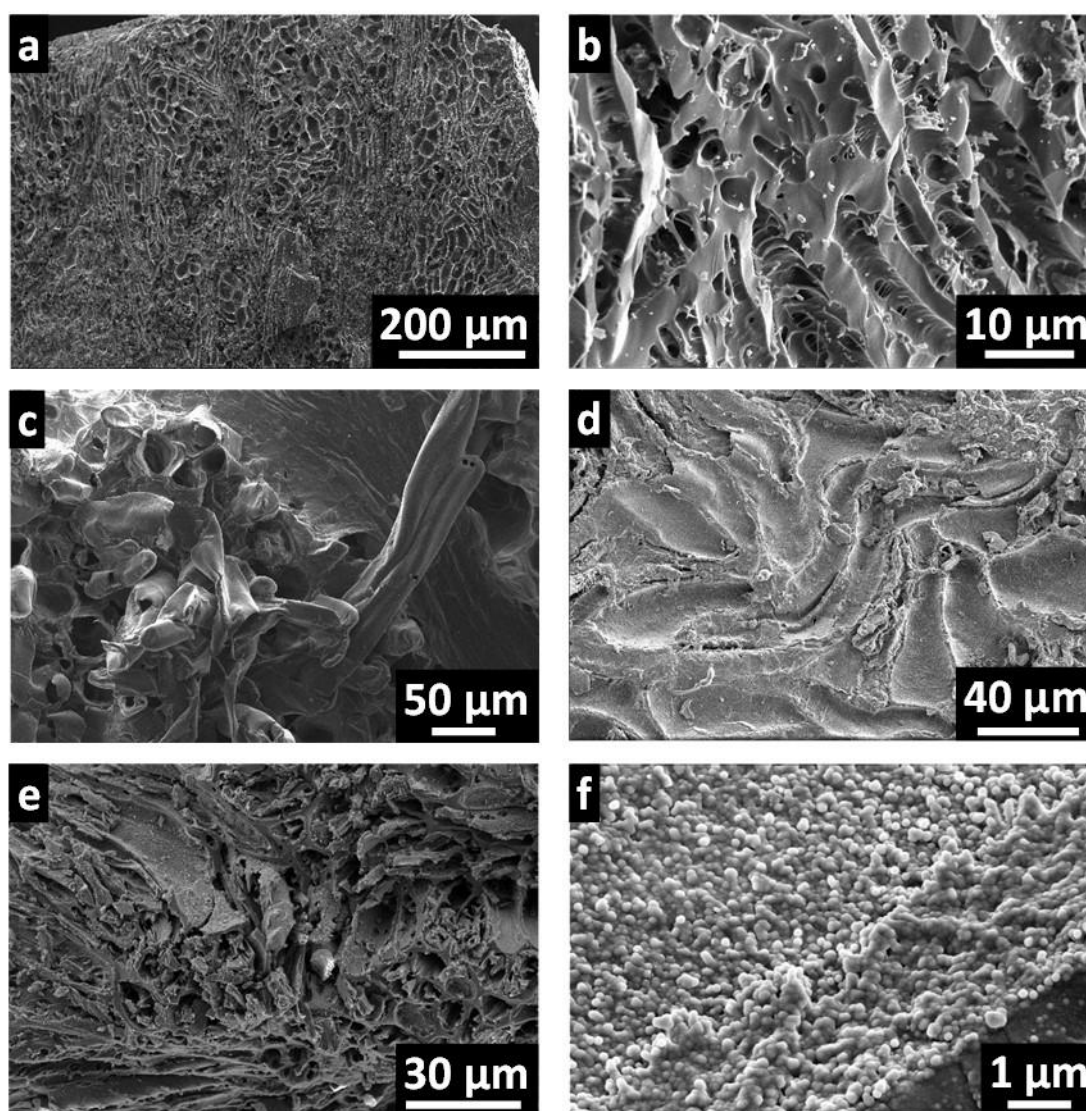


Figure S1. ESEM images of precursors: (a,b) CM; (c) HMA100; (d) HMA150; and (d,f) HMA200.

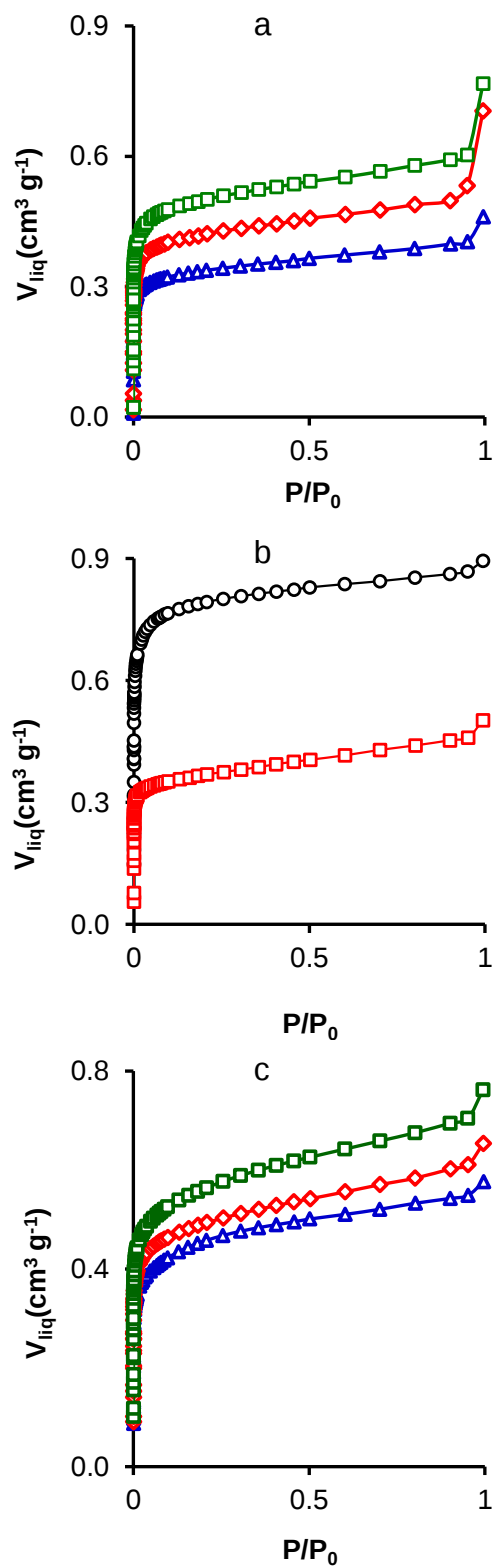


Figure S2. N_2 adsorption isotherms at $-196\text{ }^{\circ}\text{C}$ of samples: (a) MA1 (Δ), MA2 ($\diamond$), and MA3 ($\square$); (b) CMA2 ($\square$), and CMA4 ($\circ$); and (c) HMA100-2 (Δ), HMA150-2 ($\diamond$), and HMA200-2 ($\square$).

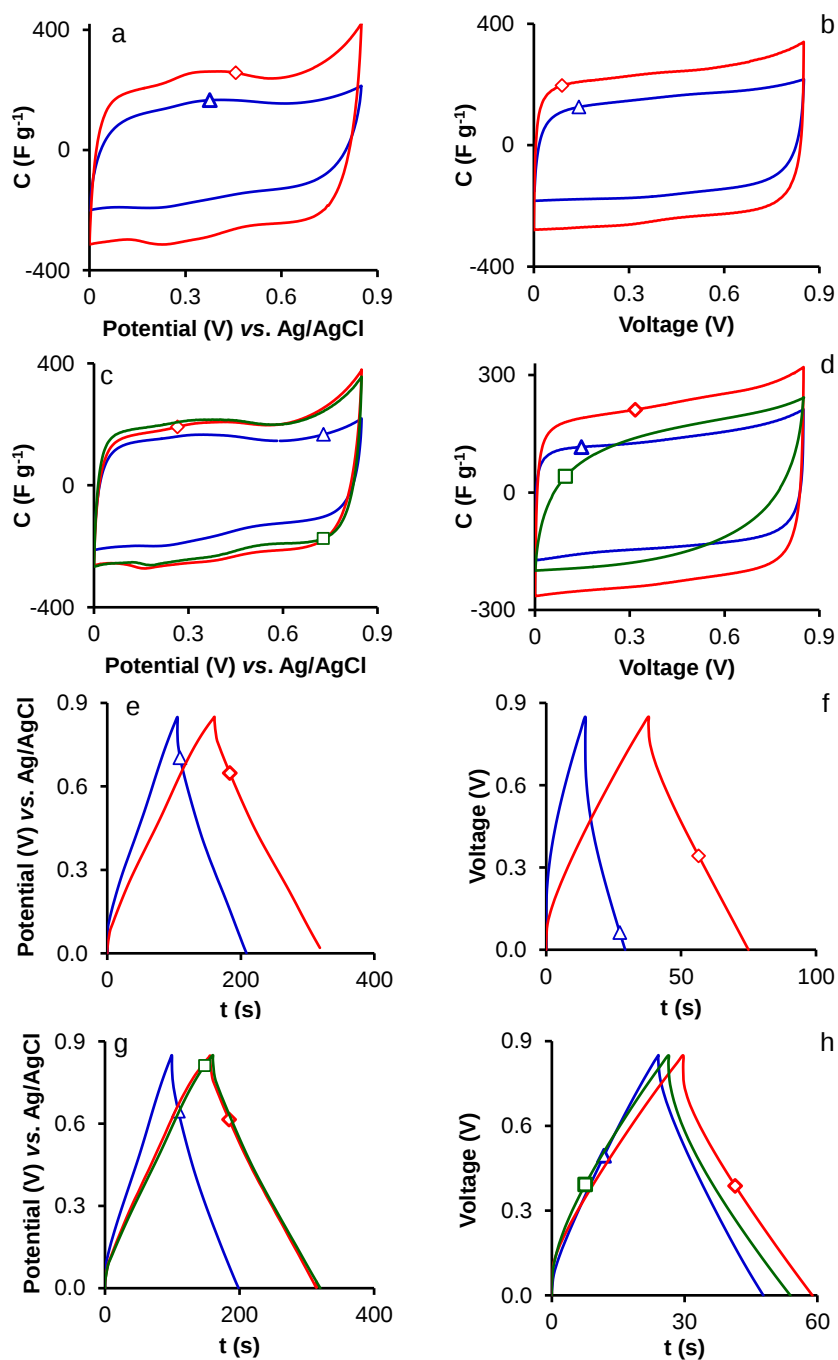


Figure S3. CVs at $2.5 \text{ mV} \cdot \text{s}^{-1}$ of samples (a,b) CMA2 (Δ), and CMA4 ($\diamond$); and (c,d) HMA100-2 (Δ), HMA150-2 ($\square$), and HMA200-2 ($\diamond$). GCDs at $1 \text{ A} \cdot \text{g}^{-1}$ of samples (e,f) CMA2 (Δ), and CMA4 ($\diamond$); and (g,h) HMA100-2 (Δ), HMA150-2 ($\square$), and HMA200-2 ($\diamond$).

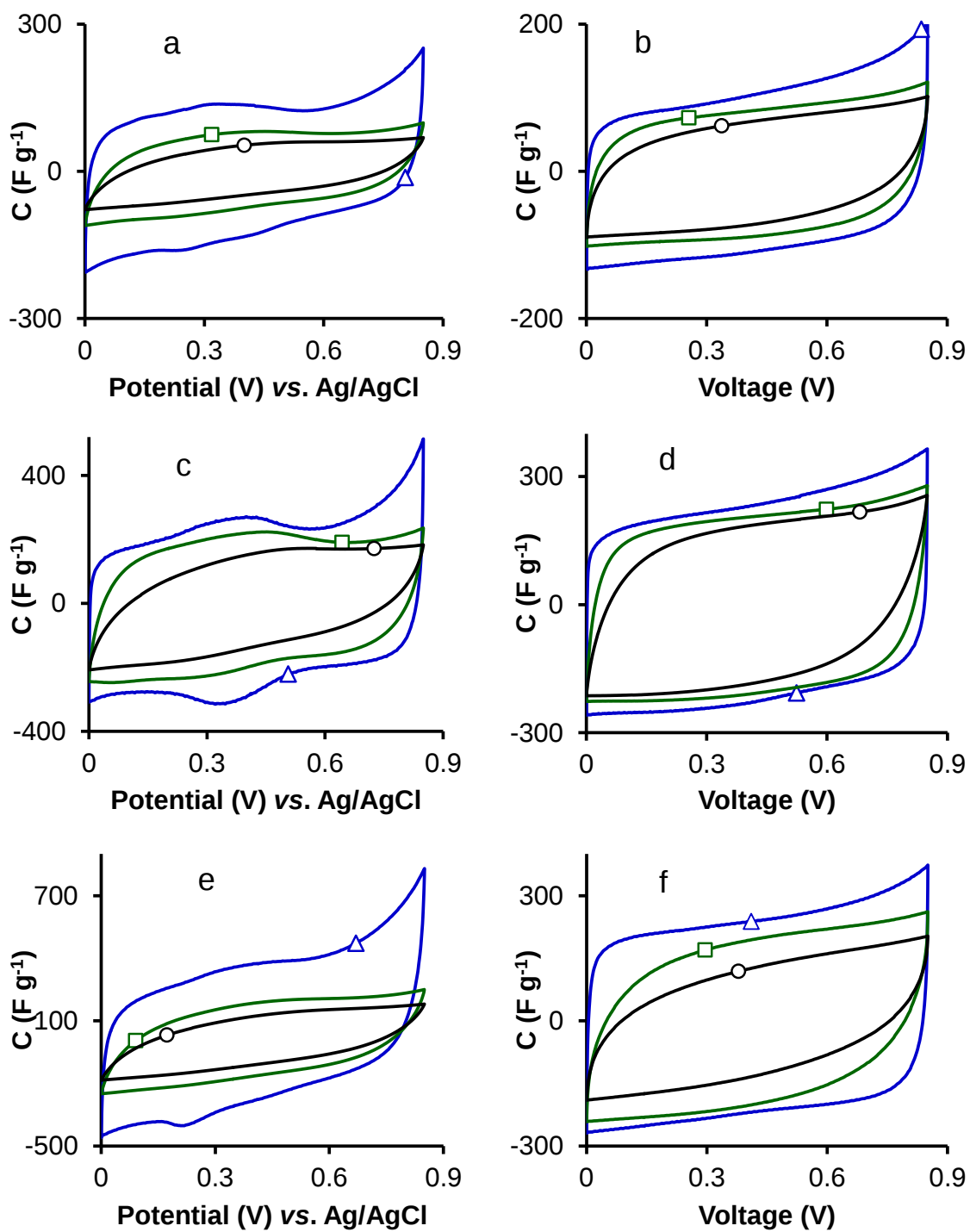


Figure S4. CVs at 0.5 (Δ), 10 ($\square$), and 30 ($\circ$) mV s^{-1} of samples: (a,b) MA1; (c,d) MA2; and (e,f) MA3.

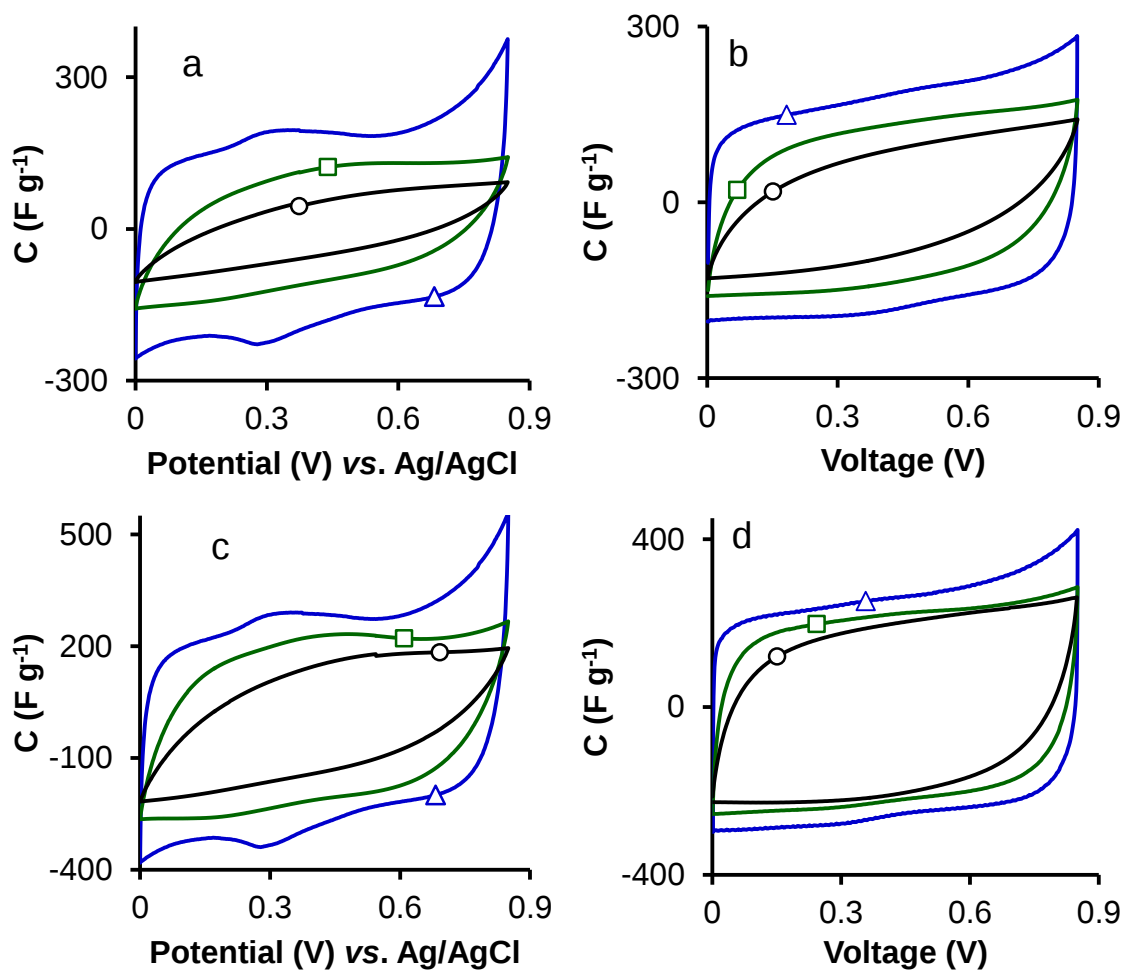


Figure S5. CVs at 0.5 (Δ), 10 ($\square$), and 30 ($\circ$) $\text{mV} \cdot \text{s}^{-1}$ of samples: (a,b) CMA2; and (c,d) CMA4.

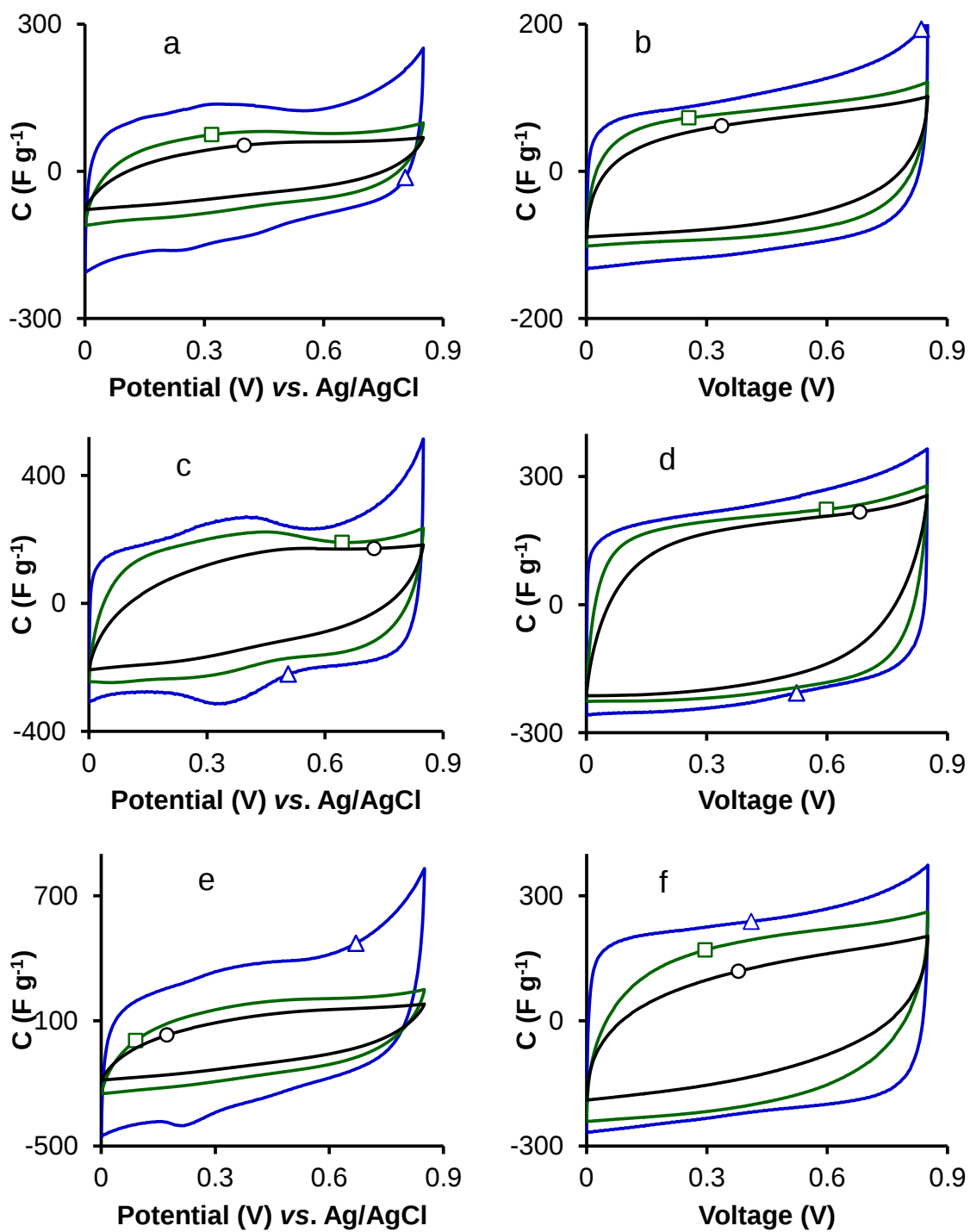


Figure S6. CVs at 0.5 (Δ), 10 ($\square$), and 30 ($\circ$) $\text{mV} \cdot \text{s}^{-1}$ of samples: (a,b) HMA100-2; (c,d) HMA150-2; and (e,f) HMA200-2.

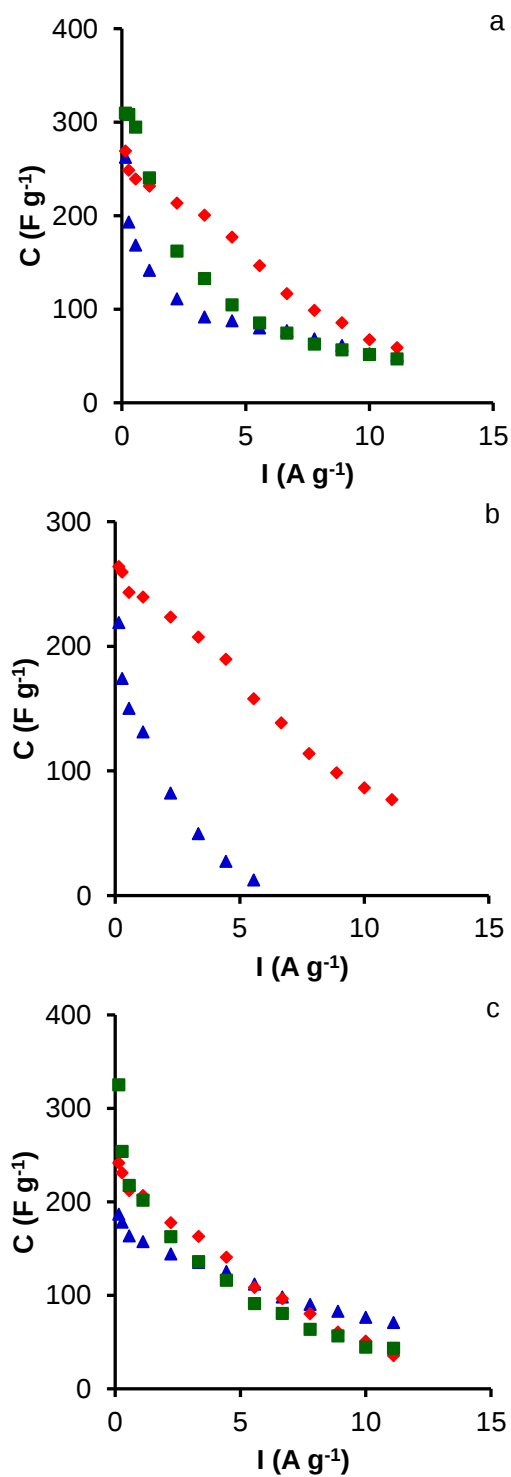


Figure S7. Variation of gravimetric capacitance with current density: (a) MA1 ($\blacktriangle$), MA2 ($\blacklozenge$), and MA3 ($\blacksquare$); (b) CMA2 ($\blacktriangle$), and CMA4 ($\blacklozenge$); and (c) HMA100-2 ($\blacktriangle$), HMA150-2 ($\blacklozenge$), and HMA200-2 ($\blacksquare$).

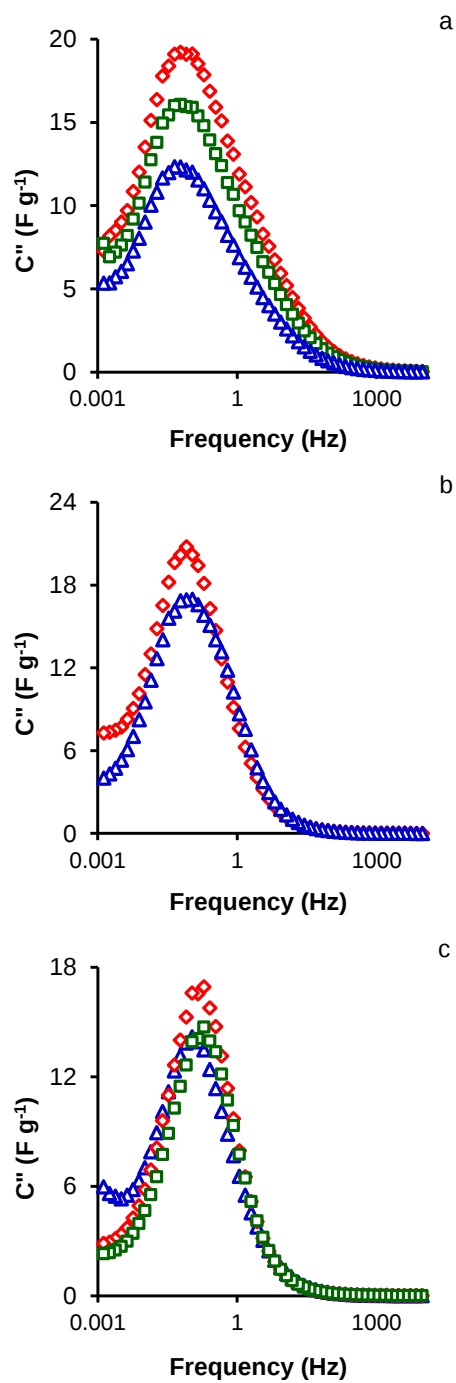


Figure S8. Evolution of imaginary part of capacitance *vs.* frequency. (a) MA1 (Δ), MA2 ($\square$), and MA3 ($\diamond$); (b) CMA2 (Δ), and CMA4 ($\diamond$); and (c) HMA100-2 (Δ), HMA150-2 ($\square$), and HMA200-2 ($\diamond$).