Ife Journal of Science vol. 27, no. 1 (2025)

ELECTROCHEMICAL INVESTIGATION OF FLOWER-LIKE SODIUM COBALT PHOSPHATE-BASED MATERIALS AND ACTIVATED CARBON DERIVED FROM COCOA POD HUSKS AS POTENTIAL ELECTRODE FOR ASYMMETRIC SUPERCAPACITOR

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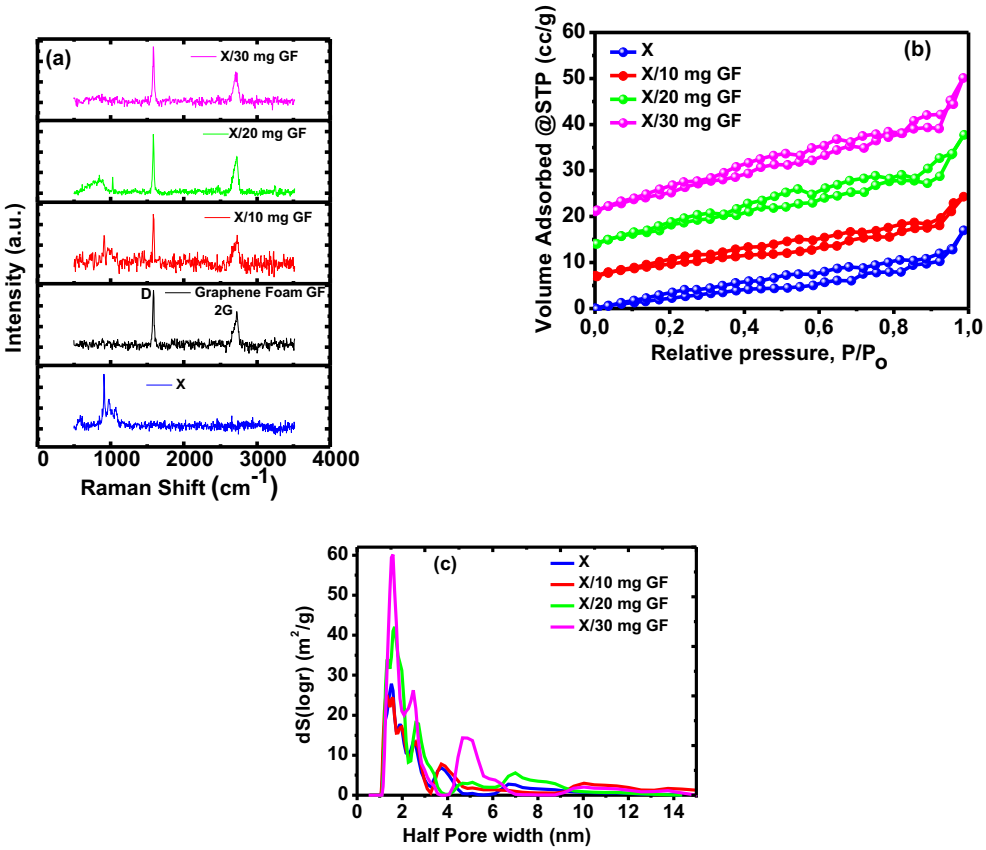
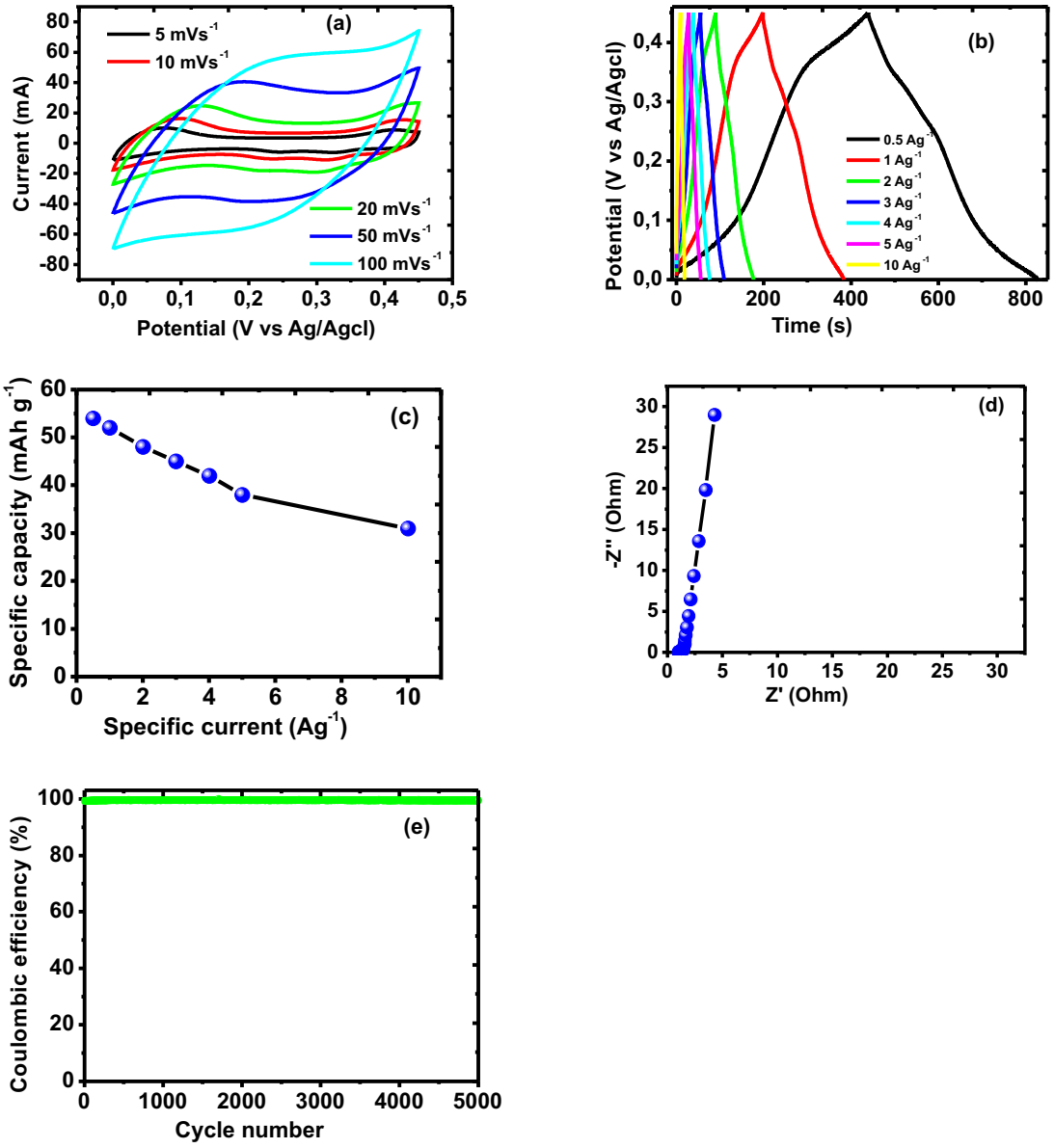
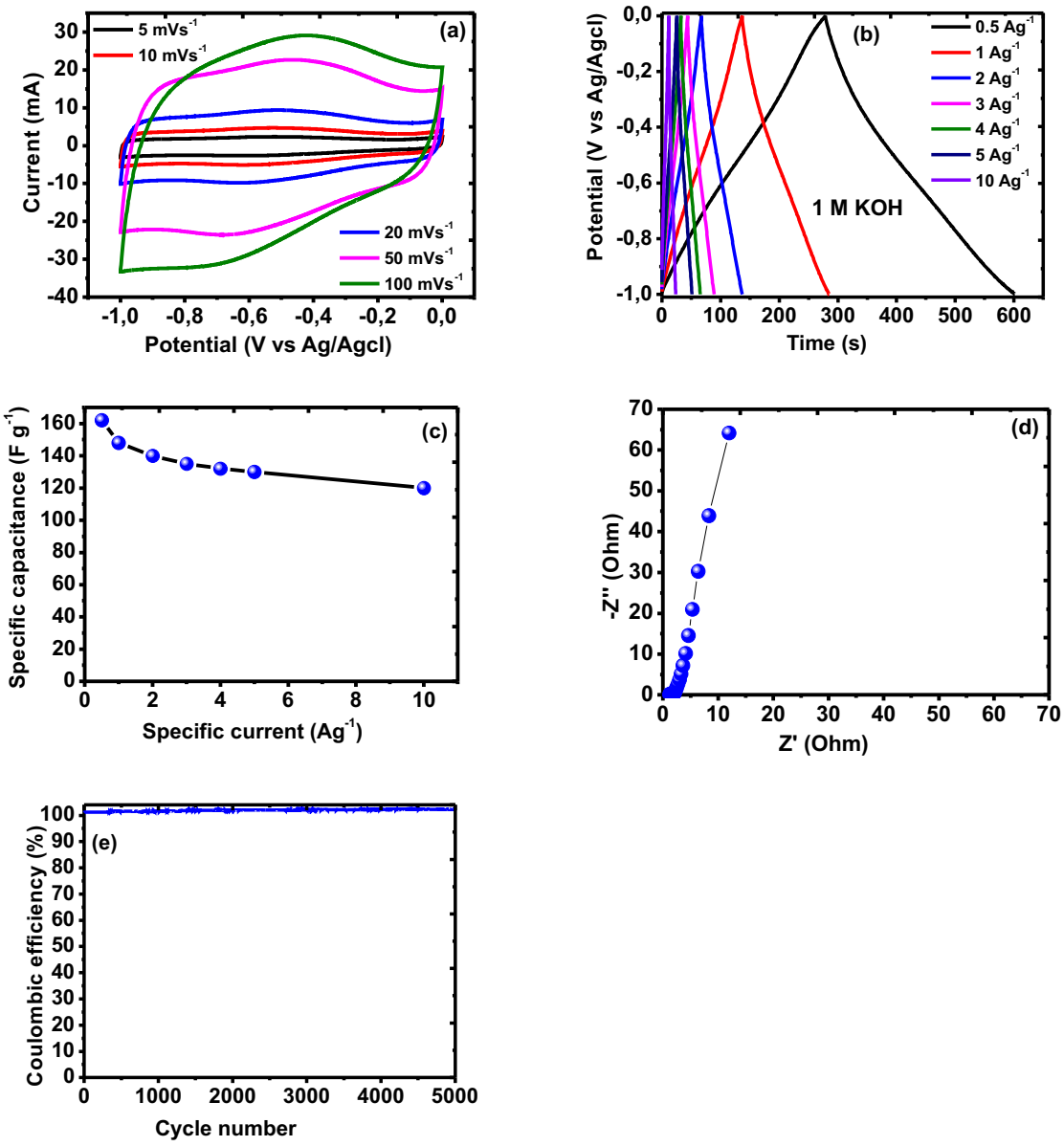
(Received: 16th December, 2024; Accepted: 9th April, 2025)



Supplementary Figure 1. (a) Raman spectra for X, graphene foam (GF), and composite of X/ mGF composites, where m = 10, 20, and 30 mg (b) Nitrogen isotherms and (c) the pore size distribution of X and X/ mGF composites with mass loading of 10, 20 and 30 mg



Supplementary Figure 2. (a) CV plots at various scan rates of X/ 10 mg GF positive electrode (b) GCD plots X/ 10 mg GF positive electrode at different specific currents, (c) Plot of specific capacity against specific current (d) EIS plot of X/ 10 mg GF positive electrode, and (e) Coulombic efficiency of X/ 10 mg GF positive electrode against cycle number in three electrode measurement.



Supplementary Figure 3. (a) CV plots at various scan rates of activated carbon (AC) from cocoa pod husks as negative electrode, (b) GCD plots at different specific currents, (c) Plot of specific capacitance against specific current (d) EIS plots of AC from cocoa pod husks as negative electrode, and (e) cycling performance of the negative electrode of AC from cocoa pod husks as negative electrode in three-electrode measurements.