

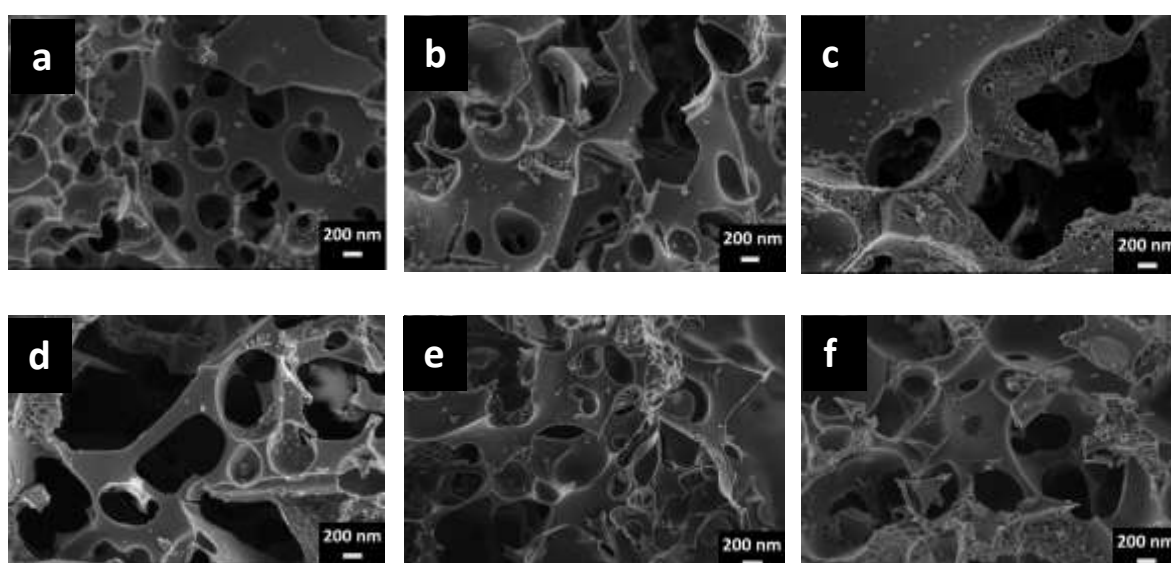
# Activated carbon derived from tree bark biomass with promising electrochemical properties for supercapacitors

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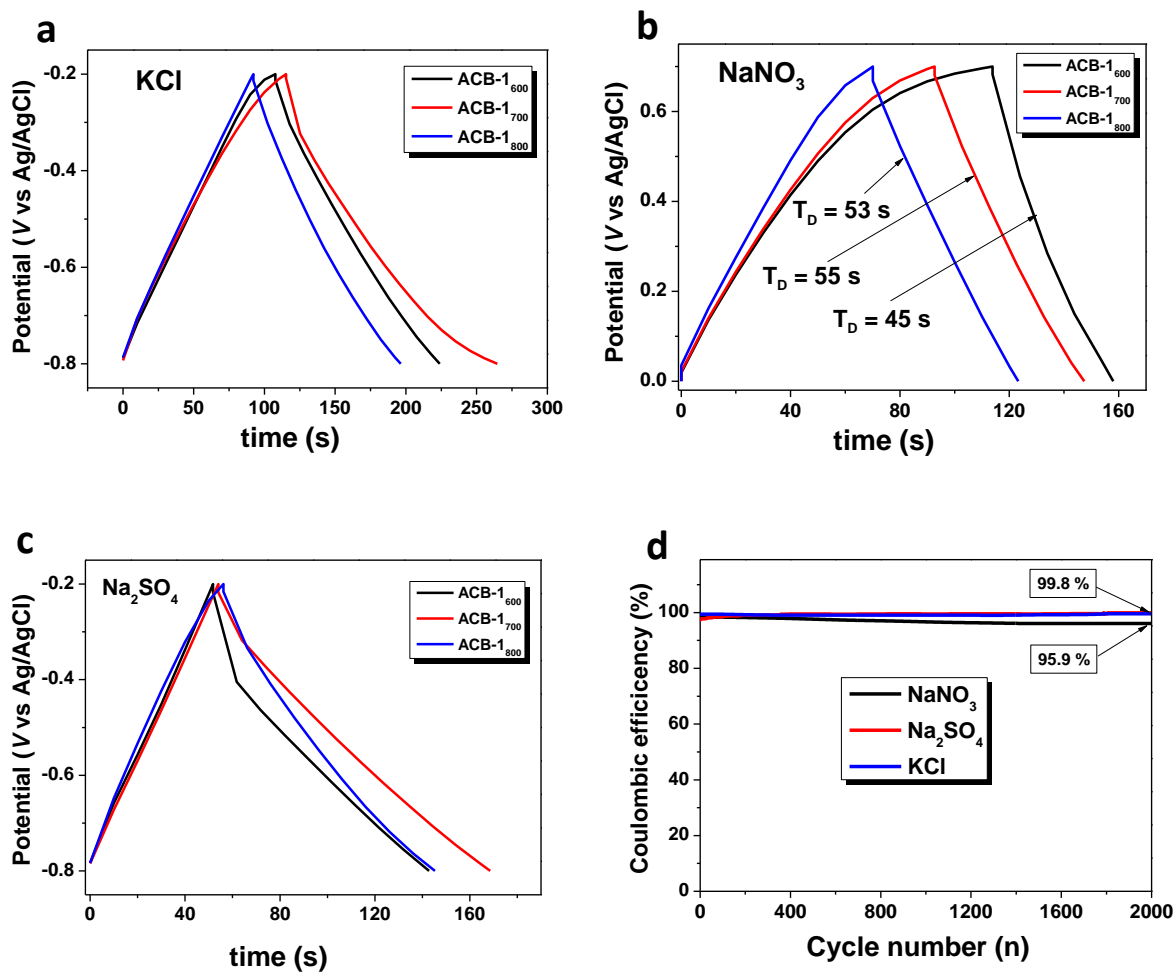
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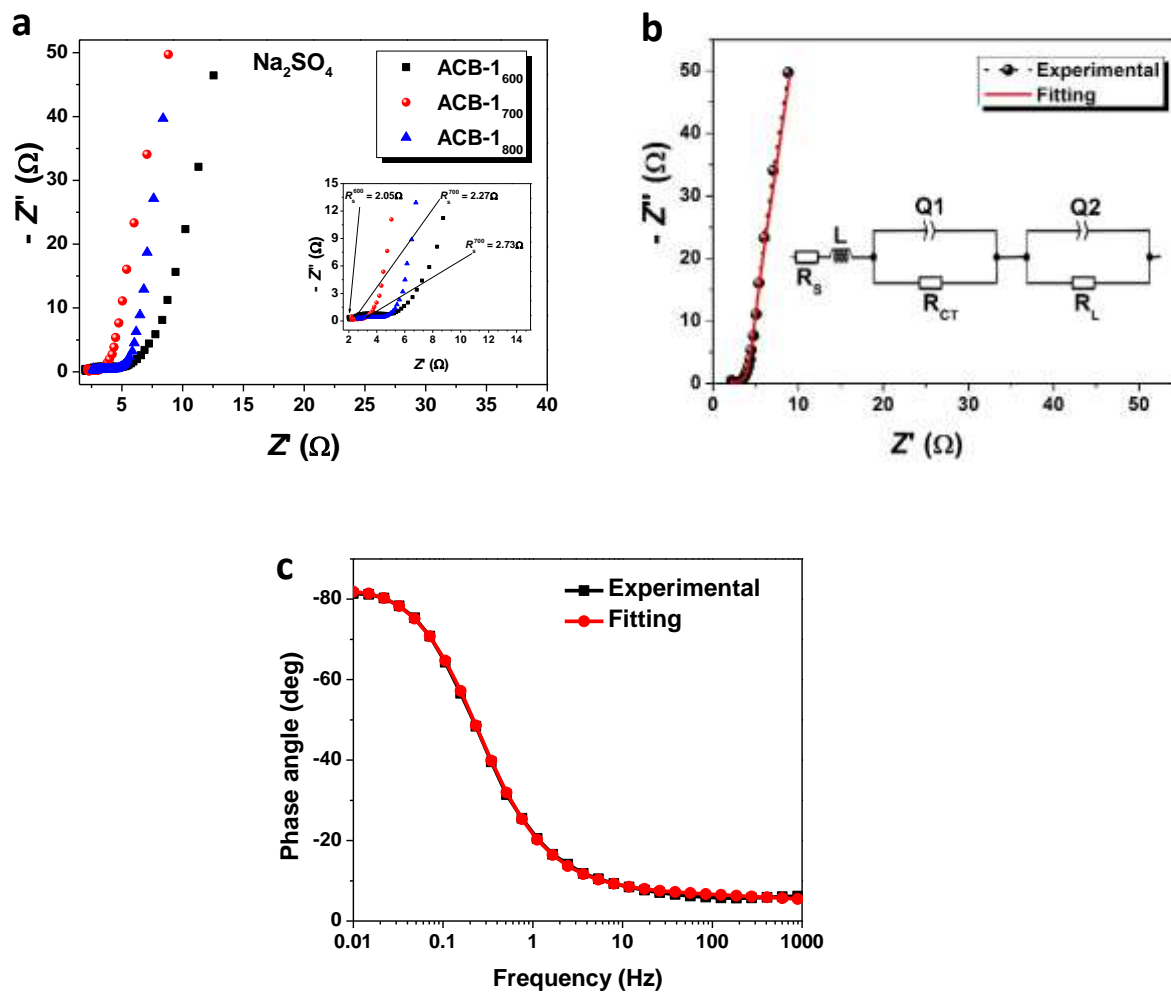
## Supporting Information



**Fig. S1** SEM images of (a-c) ACB-2 at different carbonization temperature of 600,700 and 800 °C; (d-f) ACB-3 at different carbonization temperature of 600,700 and 800 °C respectively



**Fig. S2** (a-c) GCD plot of ACB-1 sample in different electrolytes at different activation temperatures (d) Cyclic stability test of the ACB-1<sub>700</sub> sample in different aqueous electrolytes at a constant current density of 5 A g<sup>-1</sup>



**Fig. S3** (a) EIS plot of ACB-1 sample at different carbonization temperatures (b) circuit fitting of ACB-1<sub>700</sub> with the equivalence series circuit on inset to the figure and (c) Bode plot of the ACB-1<sub>700</sub> sample