

A Facile Microwave Hydrothermal Synthesis of $\text{ZnFe}_2\text{O}_4/\text{rGO}$ Nanocomposites for Supercapacitor Electrodes

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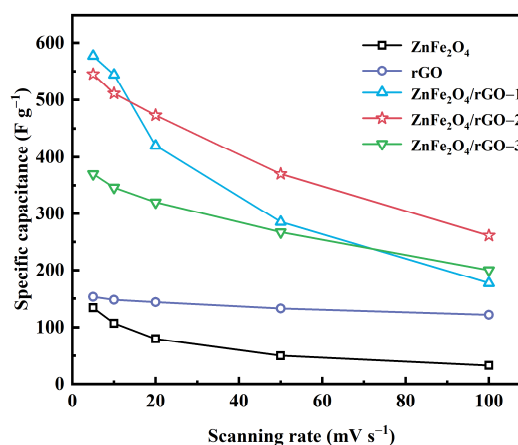


Figure S1. Plot of Scanning rate and specific capacitance from 5 mV s⁻¹ to 100 mV s⁻¹.

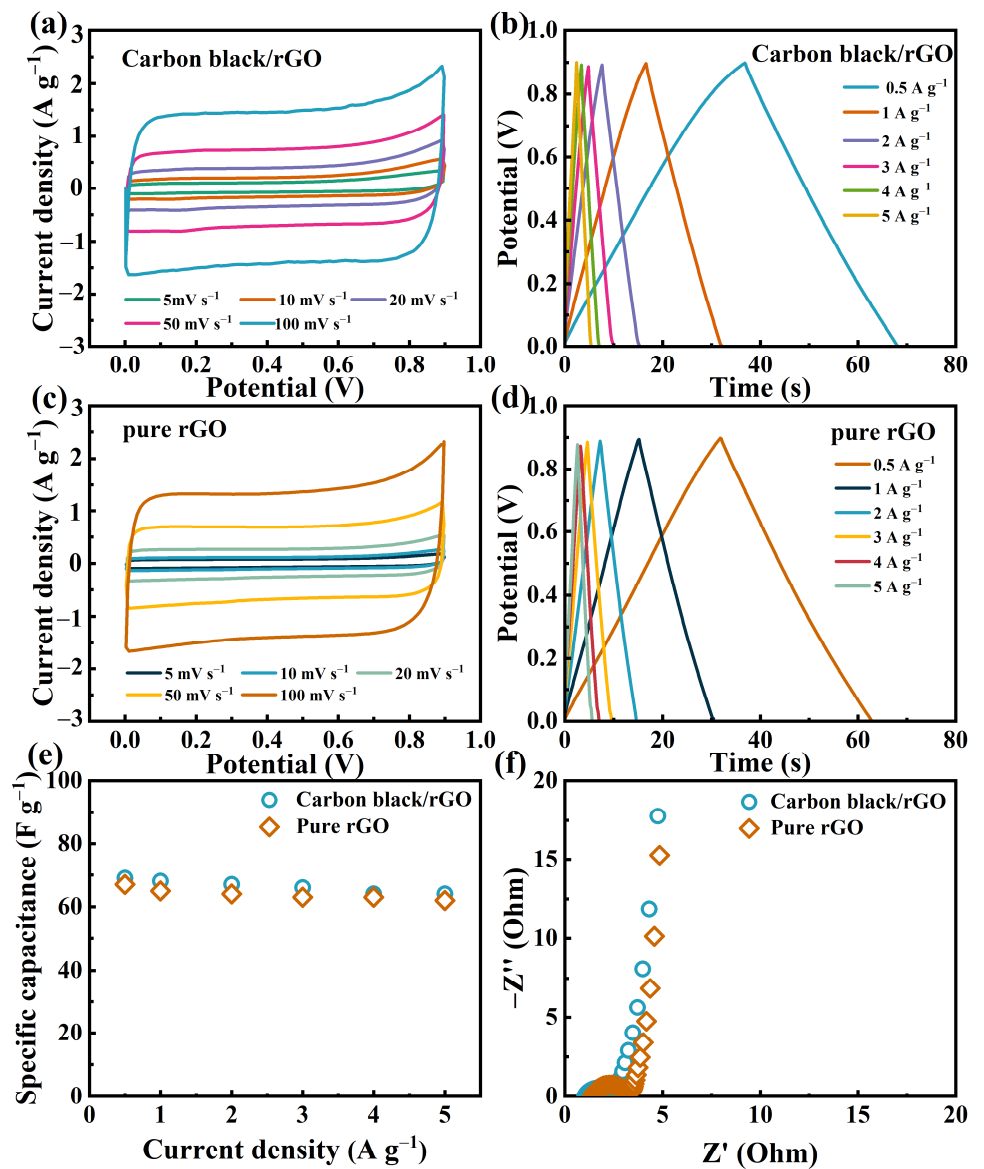


Figure S2. (a) CV curves and (b) Charge/discharge profiles of carbon black/rGO, (c) CV curves and (d) Charge/discharge curves of carbon black/rGO of pure rGO, (e) Rate performance and (f) Nyquist plots of carbon black/rGO and pure rGO.

Figure S2a, c exhibited the CV curves of carbon black/rGO and pure rGO from 5 mV s⁻¹ to 100 mV s⁻¹. The typical rectangular of CV curves indicate an EDLC capacitive behavior during the charging/discharging process. Besides, symmetrical charging/discharging triangles with neglectable voltage drop in Figure S2b, d demonstrate the low internal resistances of the carbon black/rGO and pure rGO. According to the charge/discharge profiles at different current density, we calculated the specific capacitance of carbon black/rGO and pure rGO, the results were shown in Fig, S2e. The comparable rate performance and Nyquist plots (Figure S2f) of carbon black/rGO and pure rGO exhibited the high conductivity of synthesized rGO by microwave hydrothermal process.