

**Deep Eutectic Solvent mediated synthesis and fabrication of WO₃-MgO nanocomposite
as an electrode material for energy storage applications**

C. Joel¹, R. Biju Bennie^{1*}, A. Jerold Antony², A. Nirmal Paul Raj¹, G. Selvakumar¹

¹Postgraduate Department of Chemistry, St. John's College, Tirunelveli-627002, Tamil Nadu, India.

²Department of Chemistry, St. Xavier's College (Autonomous), Tirunelveli-627002, Tamil Nadu, India.

Electronic supplementary Information

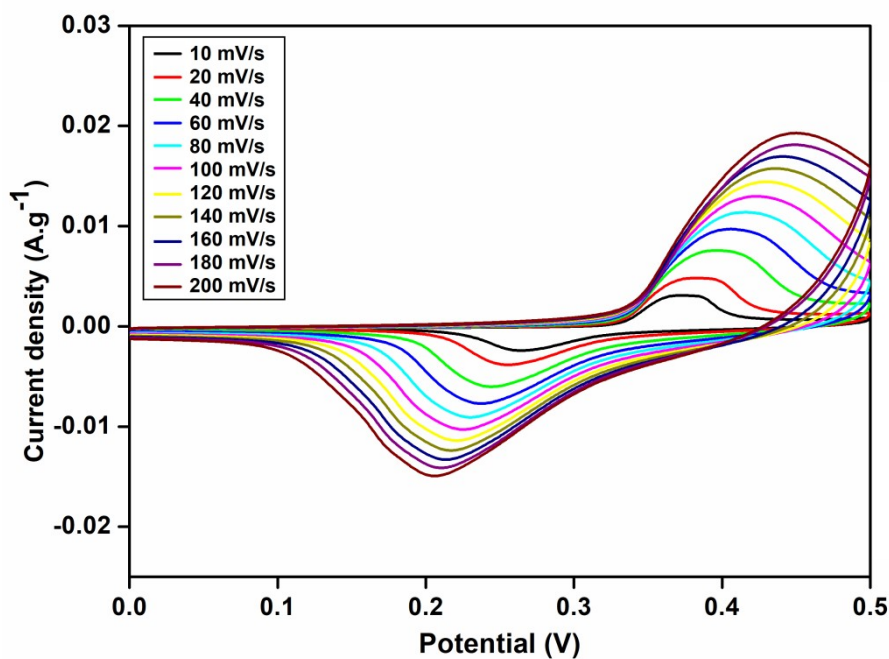


Fig S1: CV curves of WO₃ nanoparticles at varying scan rates

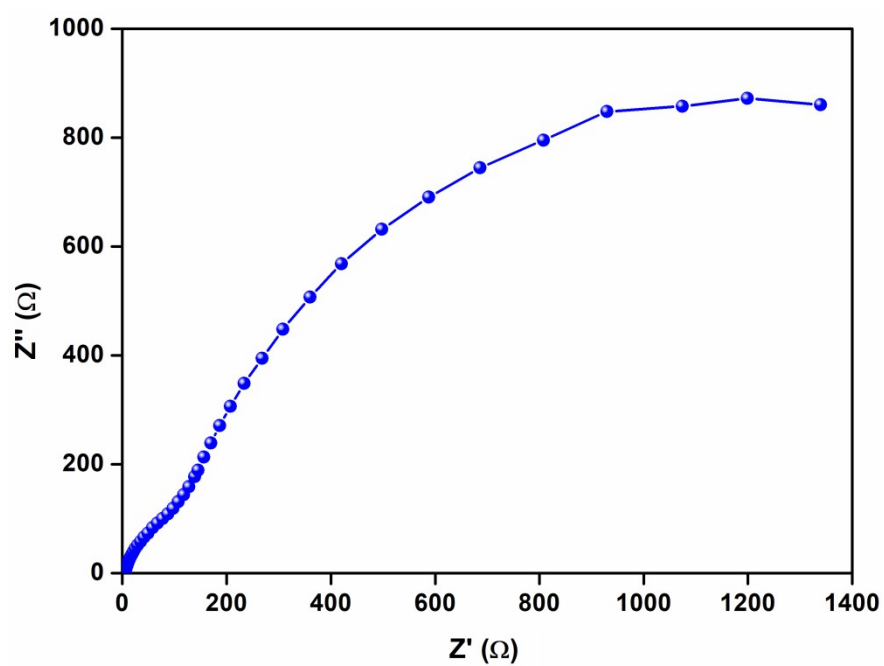


Fig S2: (a) Nyquist plot for WO₃ nanoparticles

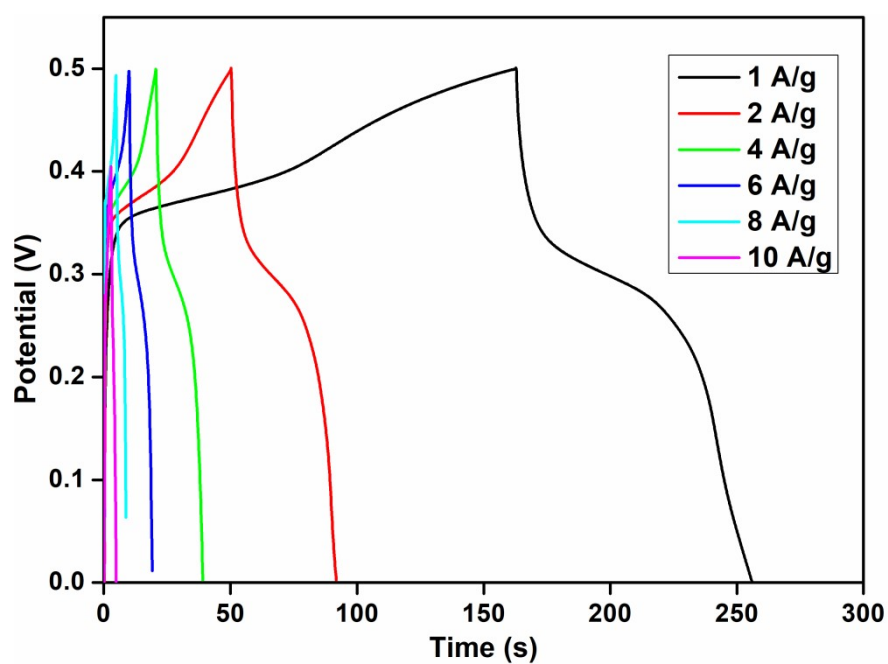


Fig S3: Galvanostatic charge-discharge (GCD) curves for WO₃ nanoparticles at varying current densities

Table S1: Specific capacitance, energy density and power density values of WO₃ nanoparticles

Current density (A/g)	Specific capacitance (F/g)	Energy density (W h Kg⁻¹)	Power density (W Kg⁻¹)
1	186.4	23.3	900
2	166.24	20.78	1800
4	148	18.5	3600
6	110.52	13.81	5398.04
8	62.56	7.82	7200
10	43	5.37	8991.62