

Ag₃O₄ Grafted NiO Nanosheets for High Performance Supercapacitors

*Inbamani Manohara Babu¹, Kamatchi Kamaraj Purushothaman^{*2}, Gopalan Muralidharan¹*

¹Department of Physics, Gandhigram Rural University, Gandhigram-624302, Tamilnadu, India

^{*2}Department of Physics, TRP Engineering College (SRM group), Irungalur, Tamilnadu.

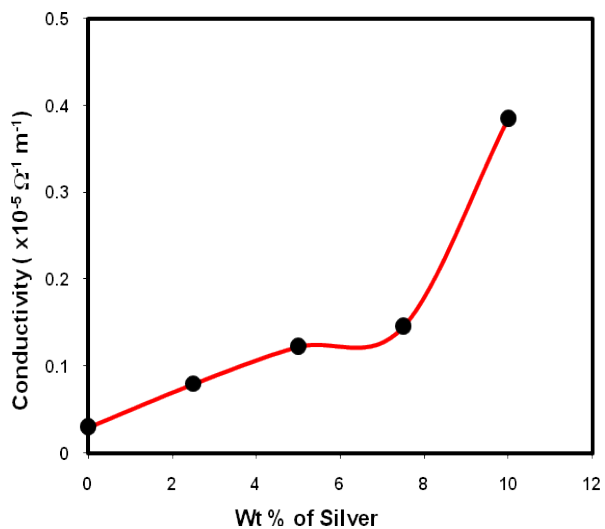


Fig. S1 Variation of conductivity with silver level in NiO

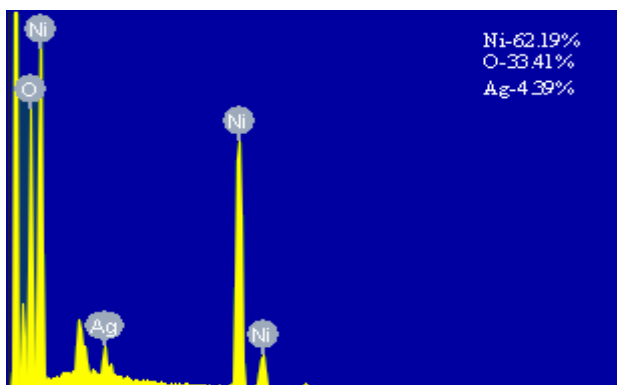


Fig S2. EDS pattern of AGN2

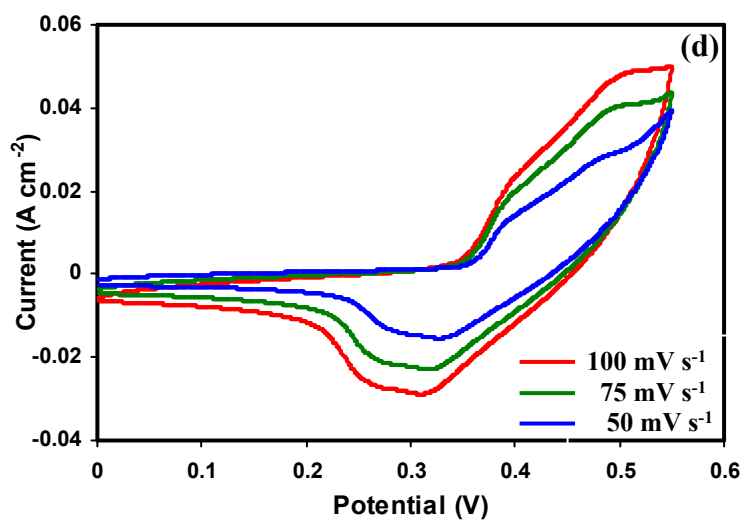
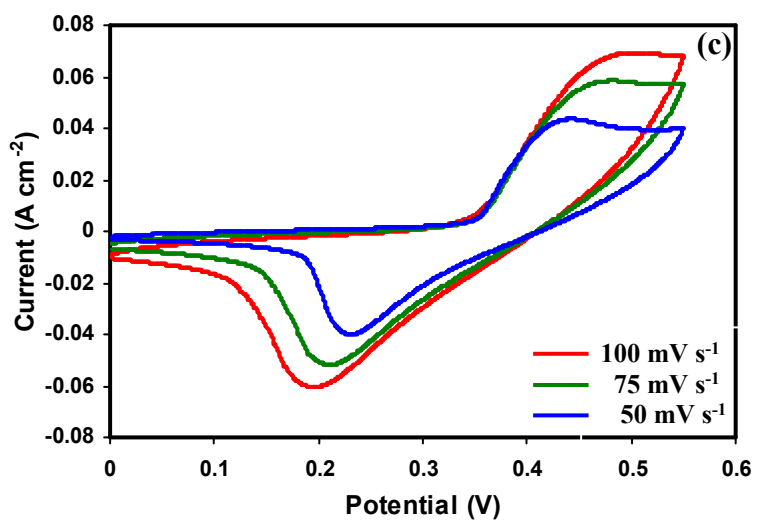
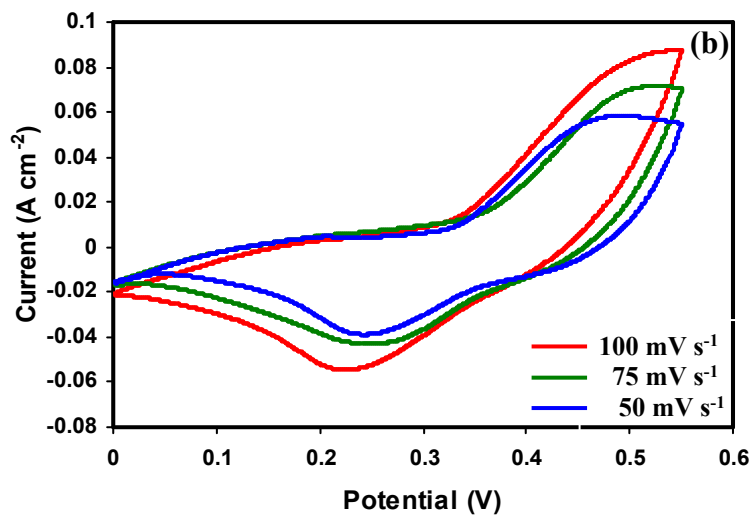
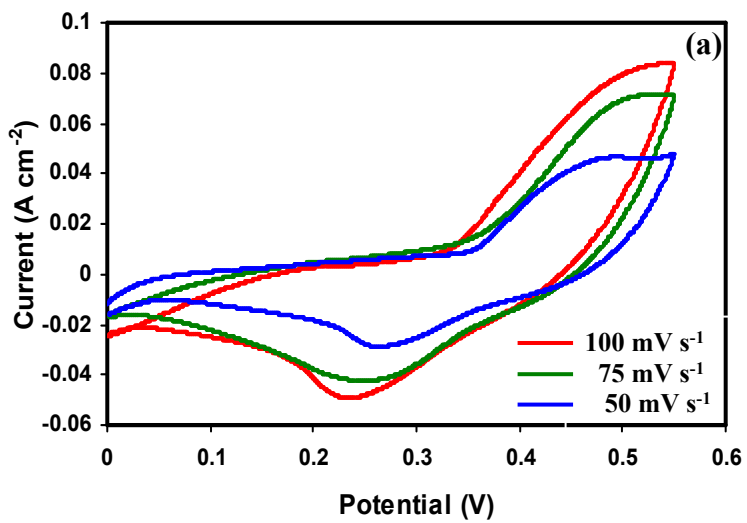


Fig. S3 Cyclic Voltammograms of (a) AGN1, (b) AGN2, (c) AGN3 and (d) AGN4 at higher scan rates.

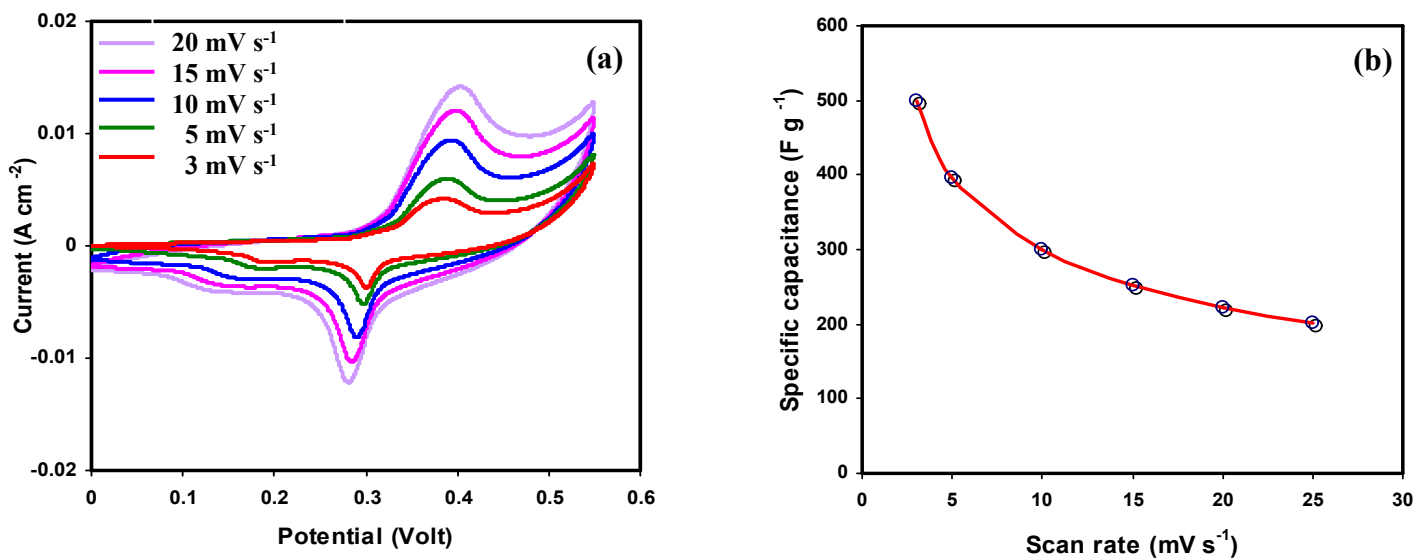


Fig. S4 (a) Cyclic voltammograms of pure NiO at different scan rates. (b) Specific capacitance as a function of scan rate.

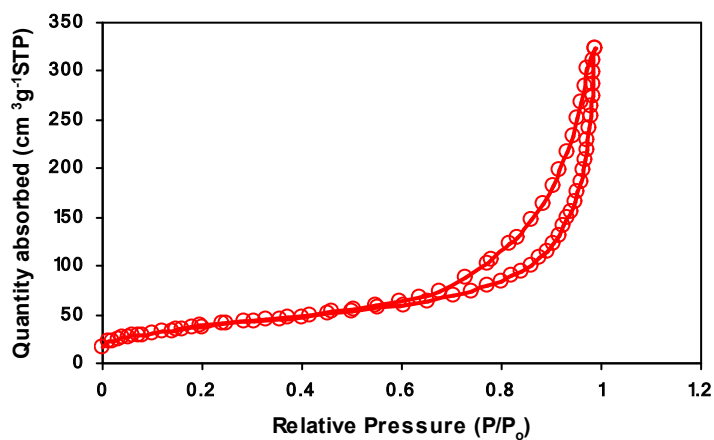


Fig. S5 Nitrogen adsorption-desorption isotherms & pore size distribution (inset) of AGN2

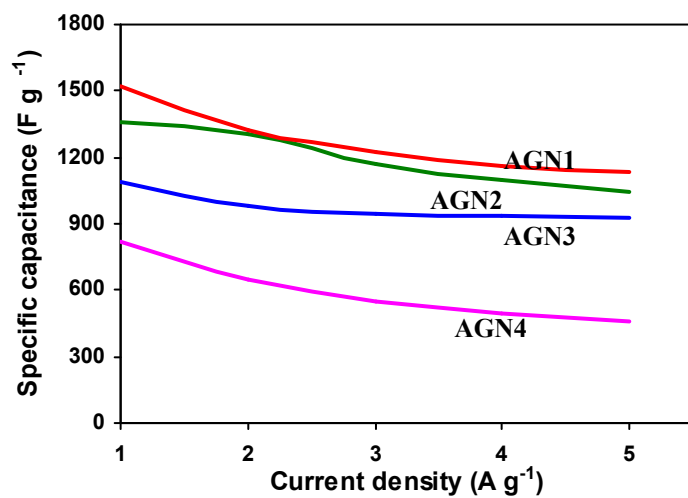


Fig. S6 Specific capacitance as a function of Current density

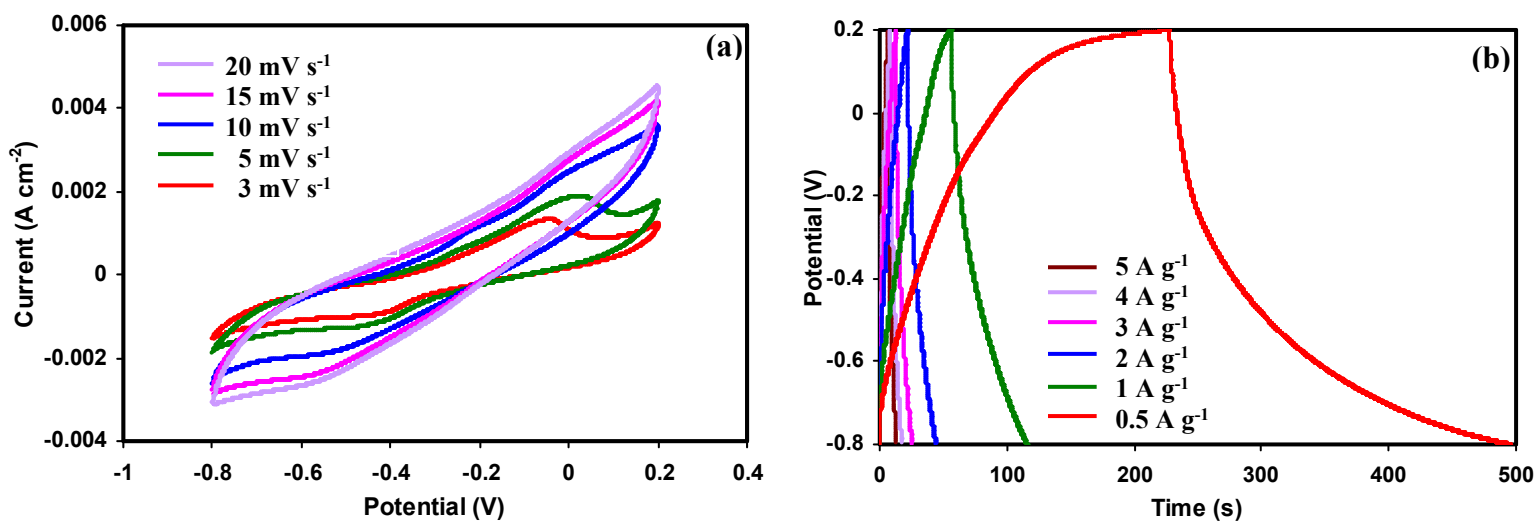


Fig. S7 (a) CV profile of RGO at different scan rates; (b) GCD curves of RGO at different current densities

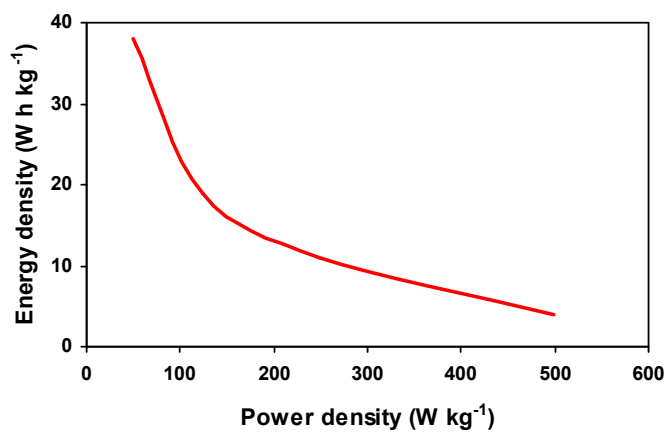


Fig. S8 Ragone plot of asymmetric supercapacitor