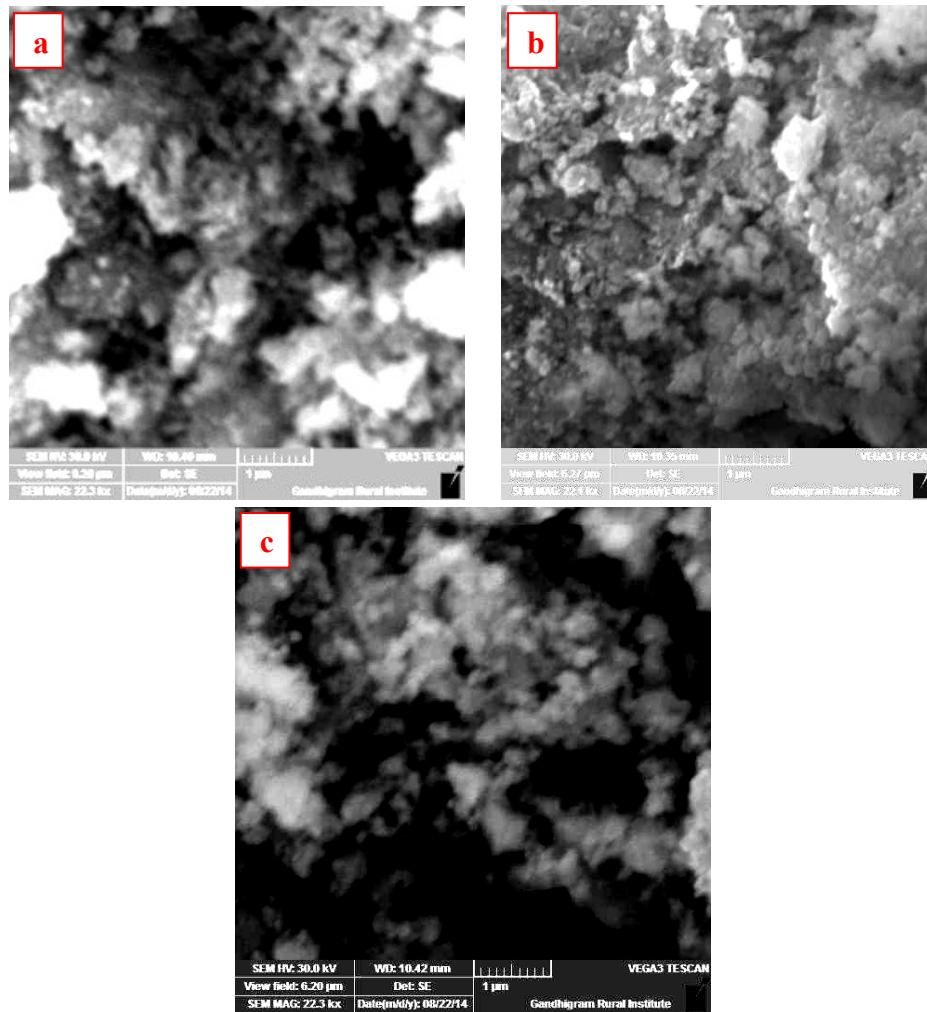


## Electronic Supplementary Information (ESI)

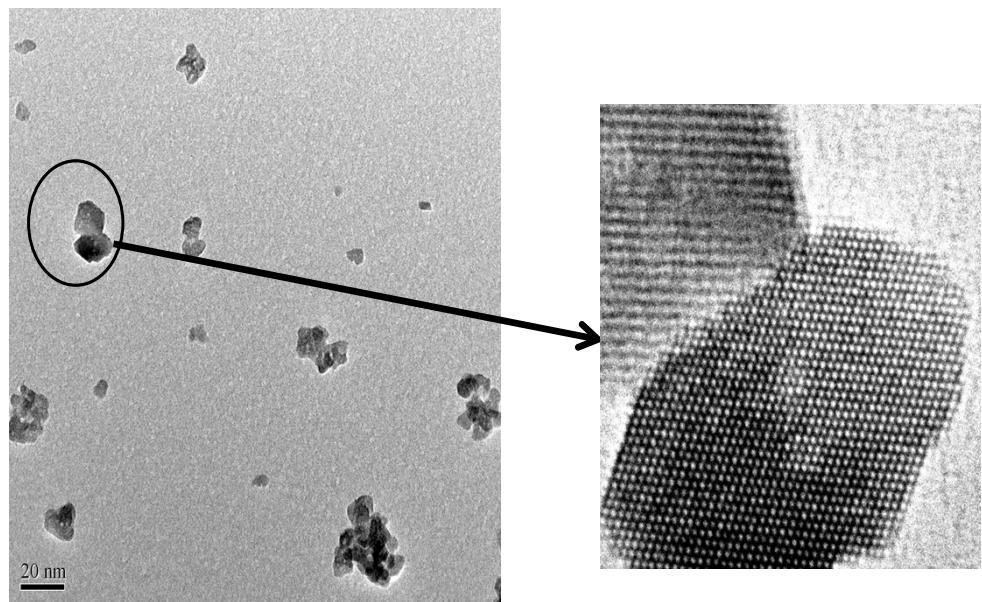
### Hexagonal CeO<sub>2</sub> Nanostructures: An Efficient Electrode Material for Supercapacitors

*Nallappan Maheswari and Gopalan Muralidharan\**

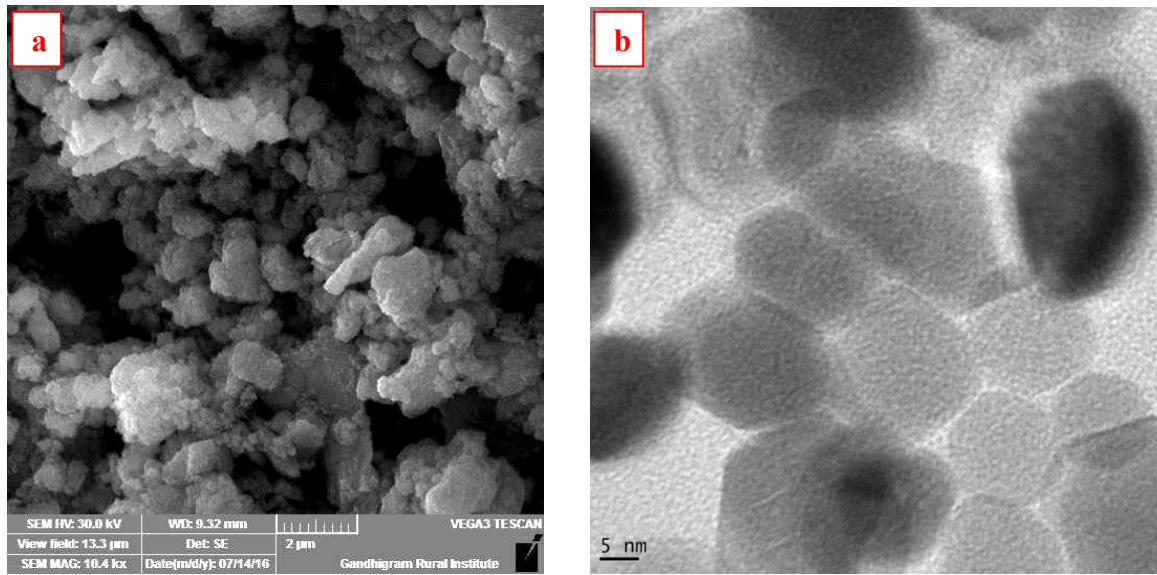
\*Department of Physics, Gandhigram Rural Institute- deemed University, Gandhigram, Tamilnadu, India.



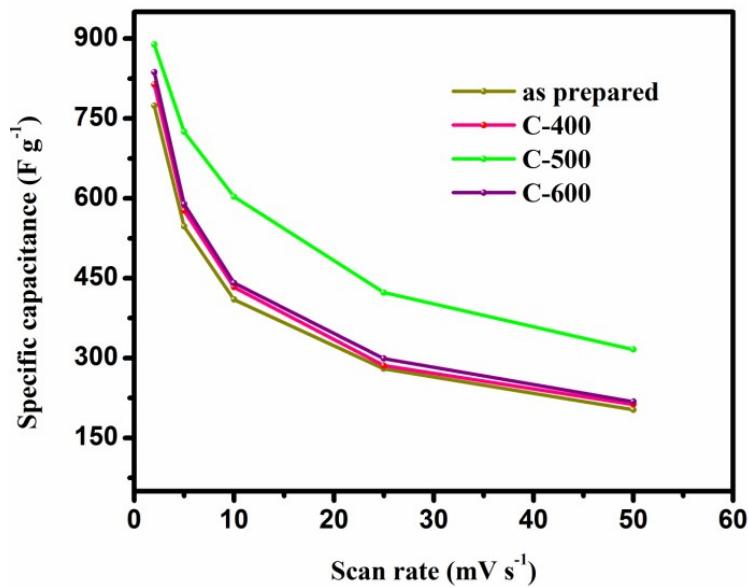
**Fig. S1** SEM images of CeO<sub>2</sub> nanoparticles (a) as prepared, (b) C-400 and (C) C-600



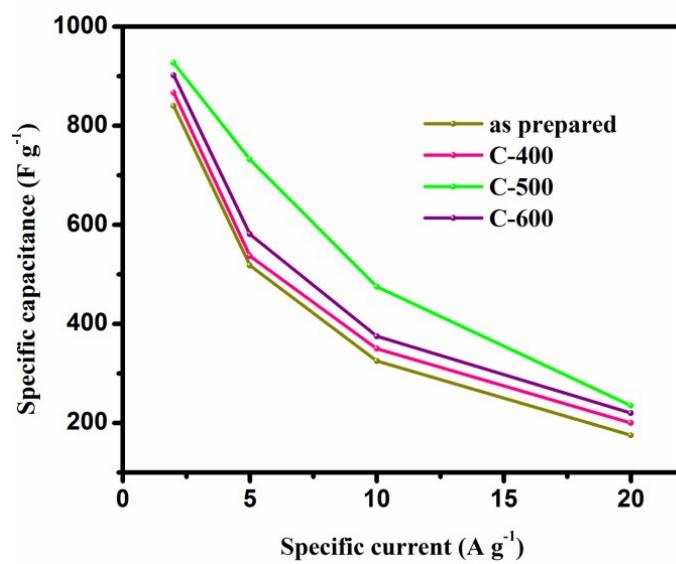
**Fig. S 1A** TEM images of C-500



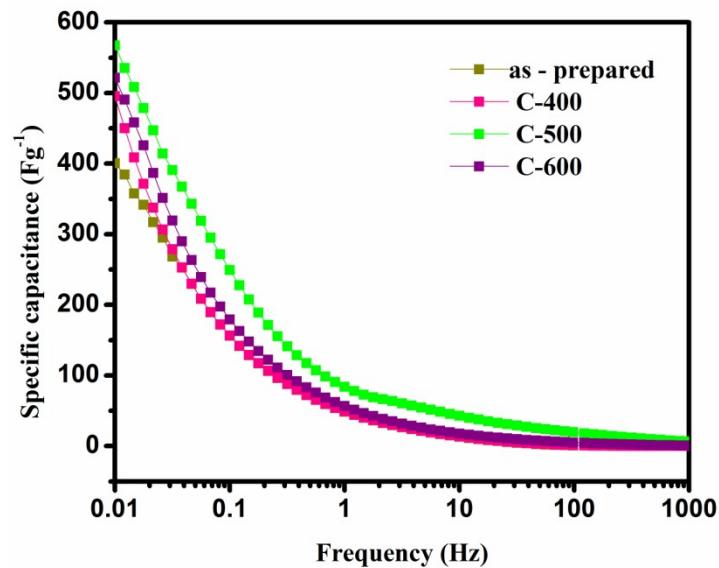
**Fig. S 1B (a) SEM and (b)TEM images of C-500 after cycling test**



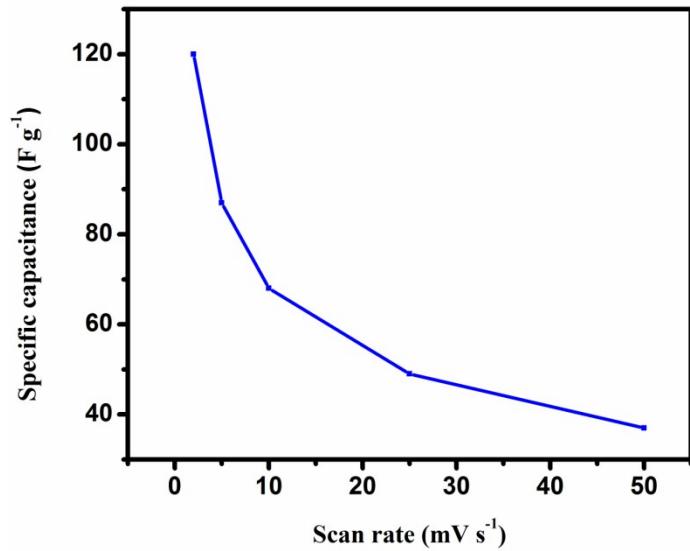
**Fig. S2** Specific capacitance as a function of scan rates



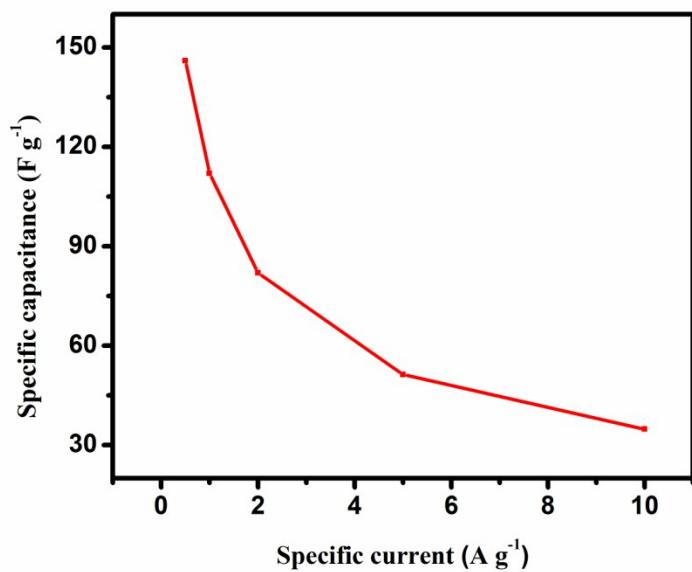
**Fig. S3** Variation of specific capacitance as a function of current



**Fig. S4** Frequency dependent specific capacitance of CeO<sub>2</sub> electrodes



**Fig. S5** Variation of specific capacitance as a function of scan rates



**Fig. S6** Variation of specific capacitance as a function of current densities