

Electronic Supplementary Information

Mesoporous carbon nanospheres with an excellent electrocapacitive performance

Zhibin Lei, Nikolay Christov, Li Li Zhang, X. S. Zhao*

Department of Chemical and Biomolecular Engineering, National University of Singapore, 4 Engineering Drive 4, 117576, Singapore.

*Corresponding Authors:

Prof./Dr. X. S. Zhao, Department of Chemical and Biomolecular Engineering, National University of Singapore, 4 Engineering Drive 4, 117576, Singapore.

Tel: +65-65164727; Fax: +65-67791936; E-mail: chezxs@nus.edu.sg

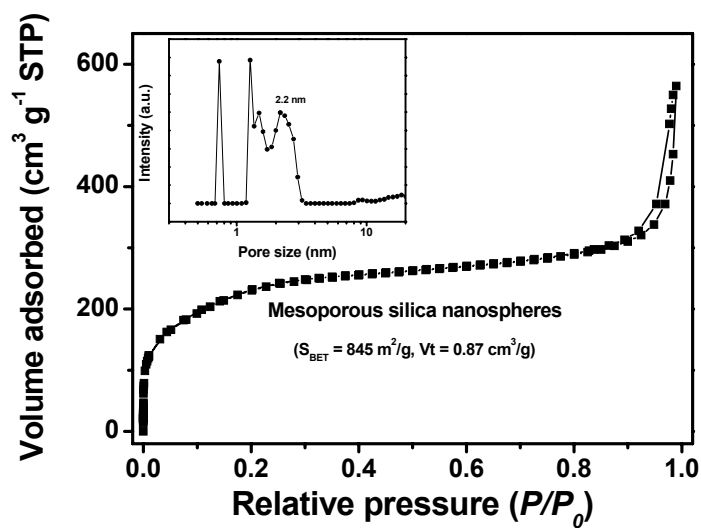


Figure S1. N_2 adsorption isotherms and the corresponding NLDFT pore size distribution curve (inset) of the mesoporous silica nanospheres (MSS) used as template in this work.

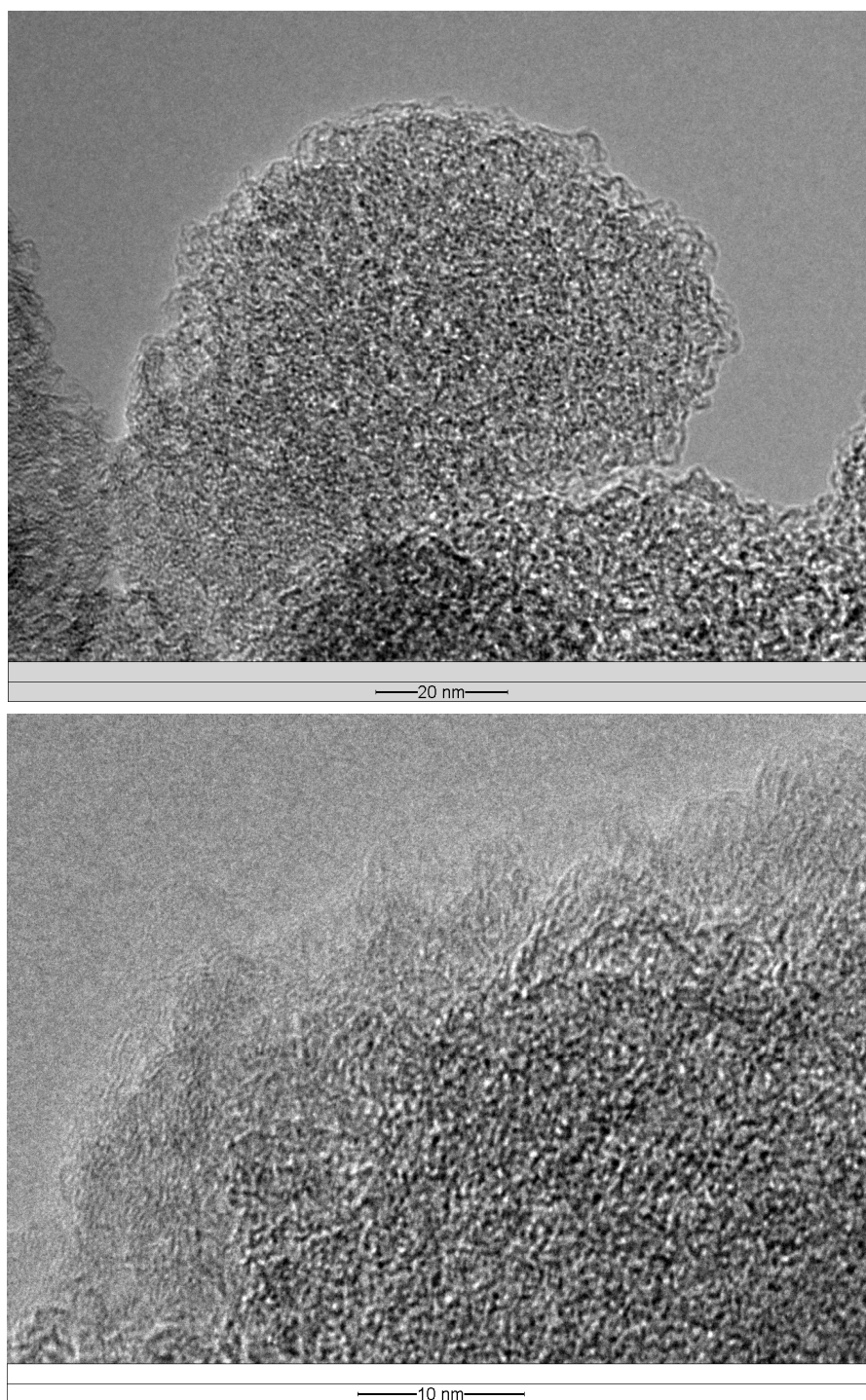


Figure S2. HRTEM images of MCS with different magnifications.

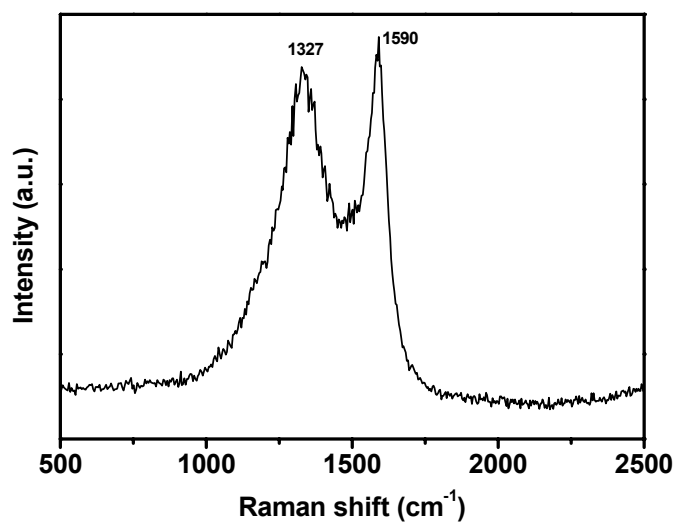


Figure S3. Raman spectrum of mesoporous carbon nanospheres (MCS).

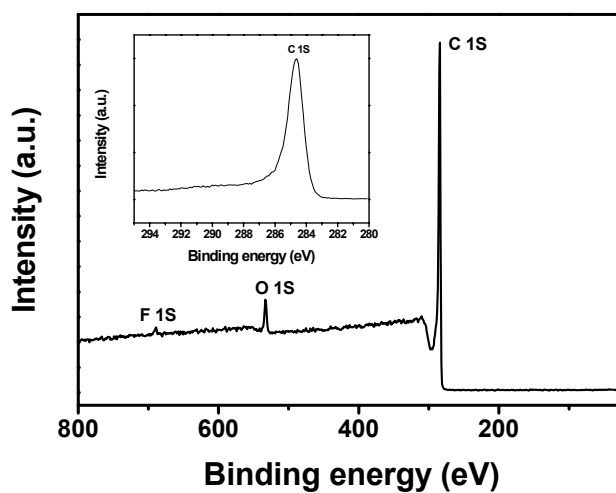


Figure S4. XPS spectrum of MCS. Inset shown the C 1S signal.

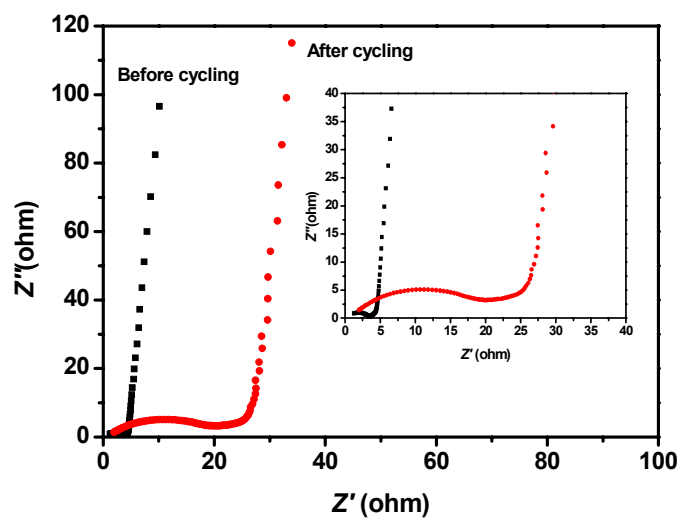


Figure S5. Nyquist plot of the MCS supercapacitor before and after 700 cycles in 1.5 mol/L TEABF₄ in acetonitrile.