Electronic Supplementary Material (ESI) for RSC Advances.

Supplementary information

Porous carbon hollow spheres synthesized via a modified Stöber method for capacitive deionization

Zhi Yi Leong and Hui Ying Yang*

Pillar of Engineering Product Development (EPD), Singapore University of Technology and Design, 8 Somapah Road, 487372, Singapore

*E-mail: yanghuiying@sutd.edu.sg

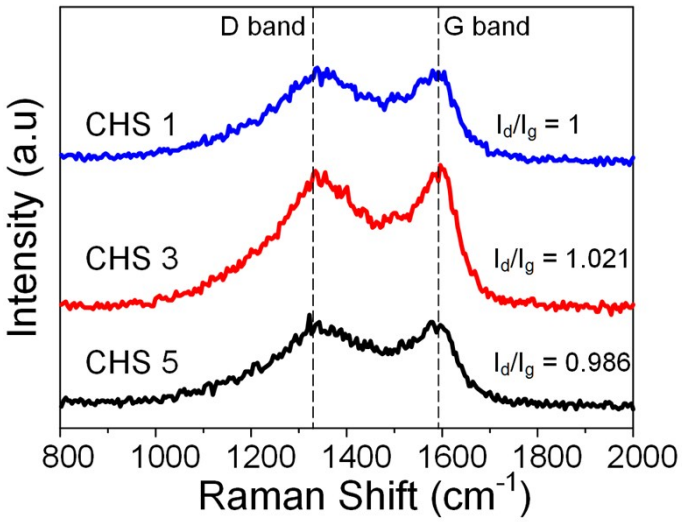

Fig. S1 Raman spectra of CHS 1, CHS 3 and CHS 5.

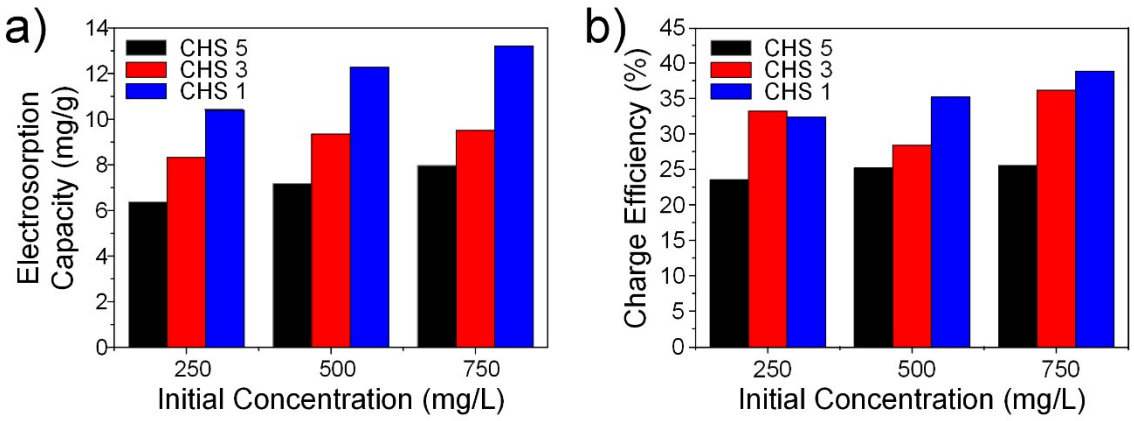

Fig. S2 (a) Electrosorption capacity and (b) charge efficiency of CHS 5, CHS 3, CHS 1 in 250, 500, 750 mg L^{-1} NaCl solutions at 1.2 V.

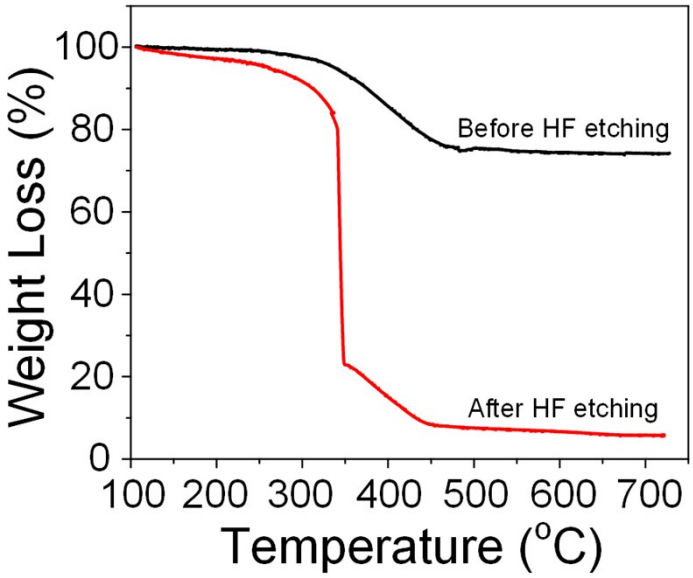

Fig. S3 TGA of CHS 1 before and after HF etching..

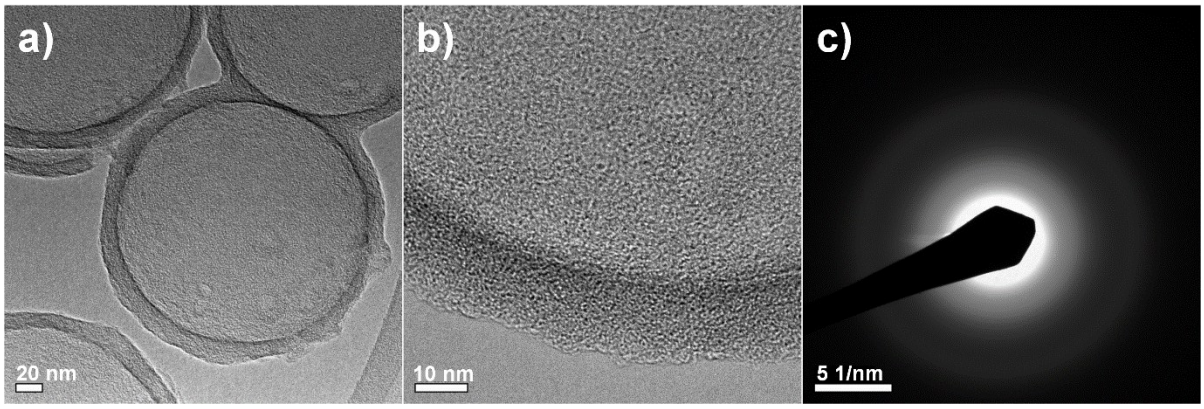

Fig. S4 (a) and (b) HRTEM images of CHS 1. (c) SAED pattern of CHS 1.

Sample	Applied Voltage (V)	Initial Salt Concentration (mg L^{-1})	Electrosorption Capacity (mg g^{-1})	Ref.
CNT-RGO Composite	1.6	50	0.88	[42]
ACC-ZnO Composite	1.6	993.5	3.6	[43]
3DMGA	1.6	52.5	3.9	[44]
NP-3DG	1.6	500	17.1	[45]
HPC	1.6	26	-	10
CHS 1	1.6	250	18.8	This work

Table. S1 Comparison of electrosorption data between our work and others at 1.6 V