

Supporting Information

Template-Free Synthesis of High Surface Area Nitrogen-rich Carbon Microporous Spheres and Their Hydrogen Uptake Capacity

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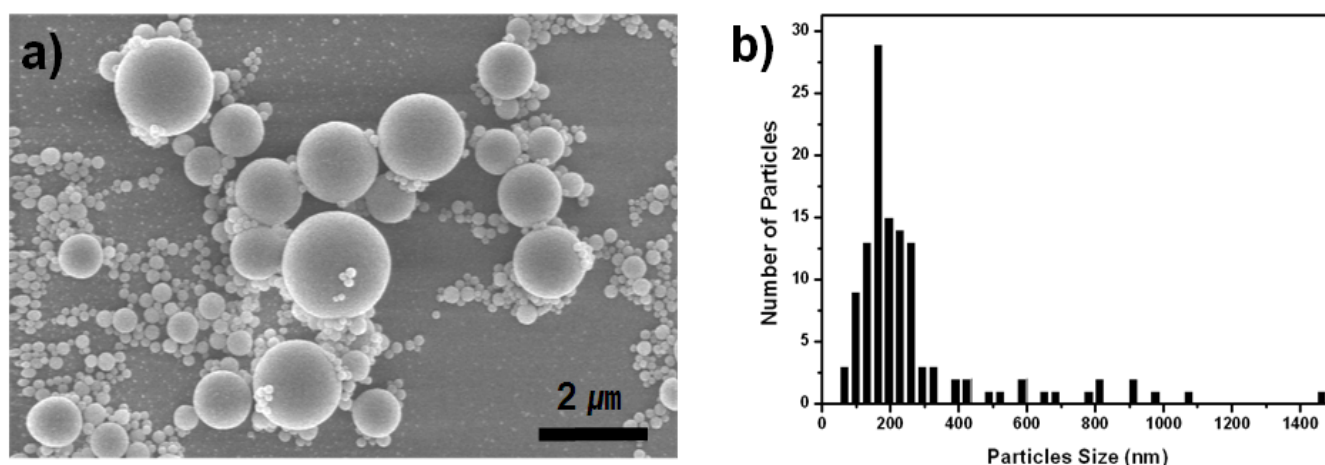


Fig. S1 a) A SEM image of the MFS and b) the size distribution graph of the MFS.

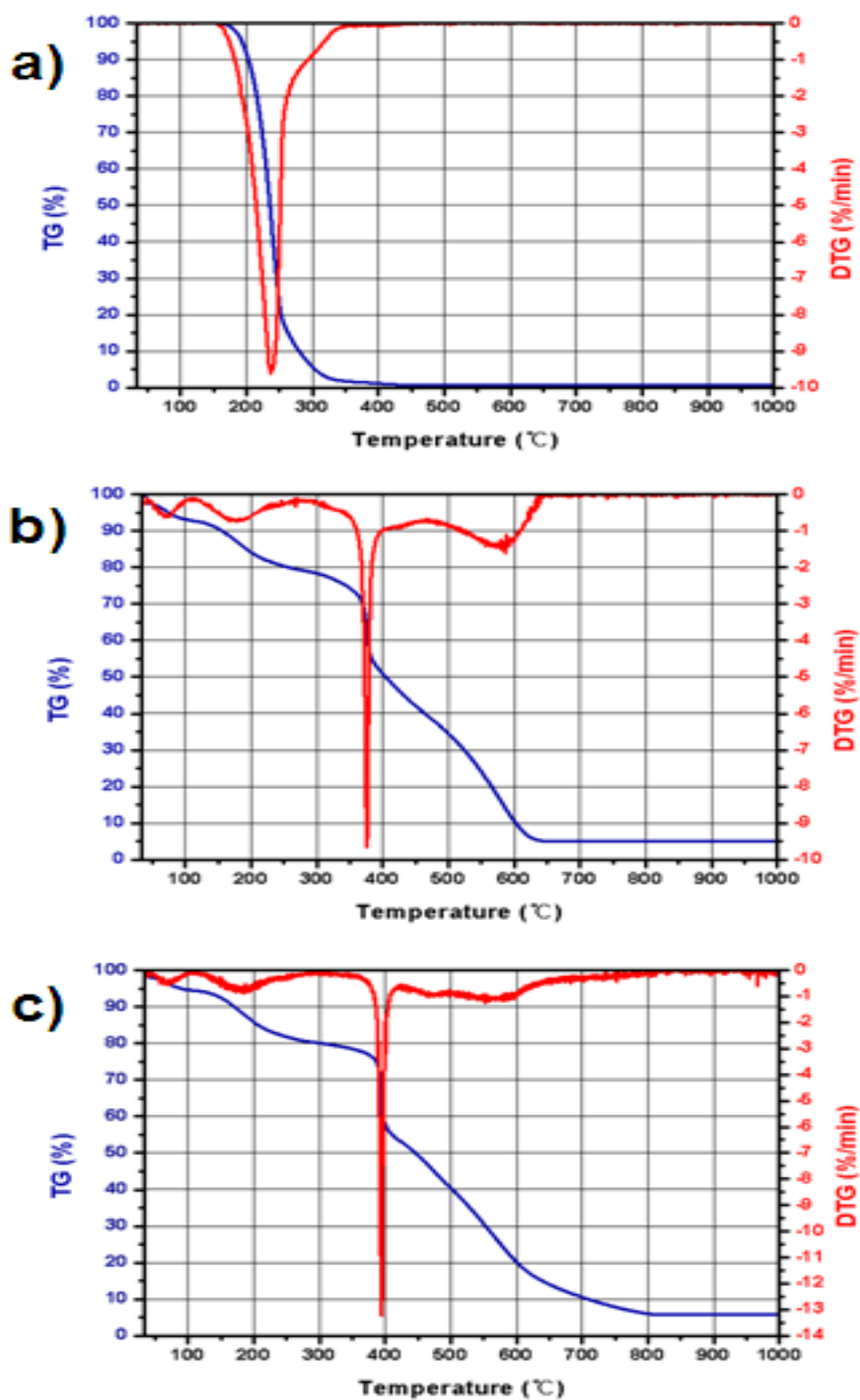


Fig. S2 TGA (Thermogravimetric Analysis) and DTGA (Derivative Thermogravimetric Analysis) results of a) the Pluronic F127 in air, b) the MFS in air, and c) the MFS in Ar.

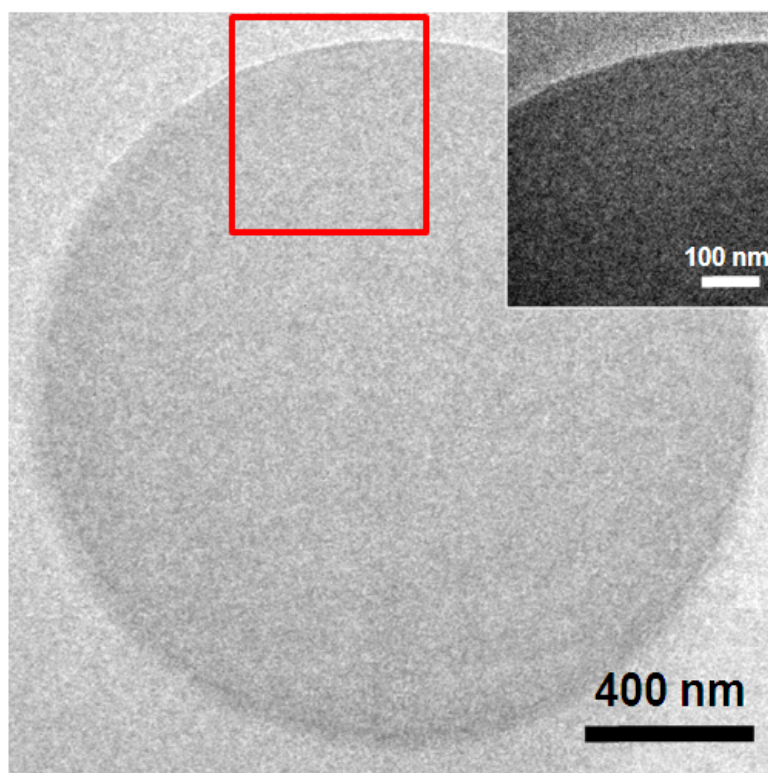


Fig. S3 A TEM image of a microtomed MFS. The inset is the magnified image of the red box in the left.

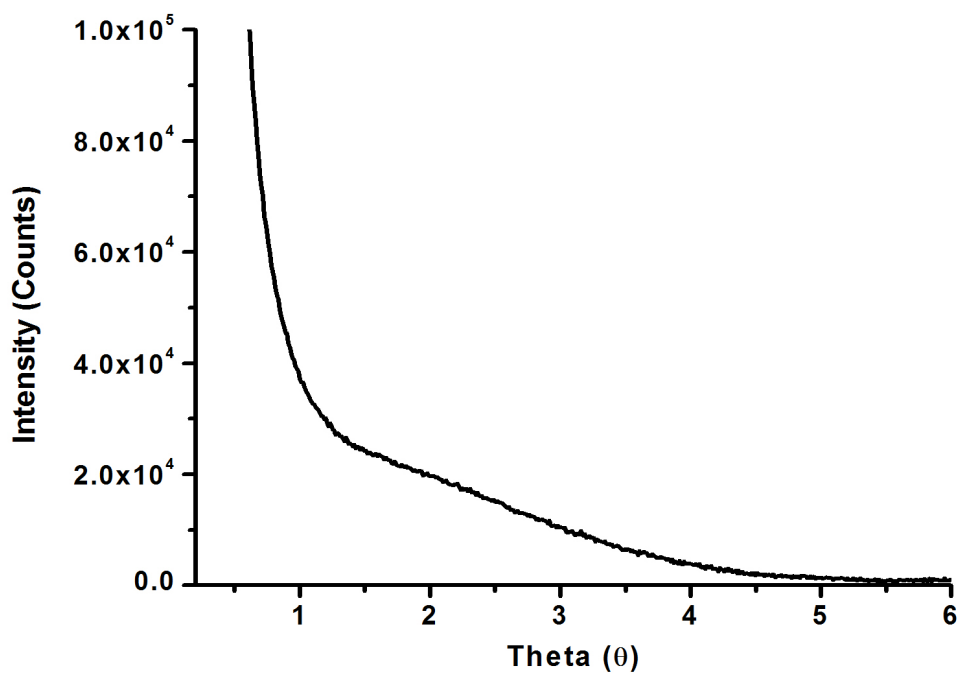


Fig. S4 The SAXS (Small Angle X-ray Scattering) analysis of the carbonized spheres

Table S1 Elemental analysis of the MFS and the NCMS.

	N (%)	C (%)	S (%)	O (%)	H (%)
MFS	39.35	32.66	0.429	17.58	6.311
NCMS	12.75	66.67	0.146	15.46	2.016

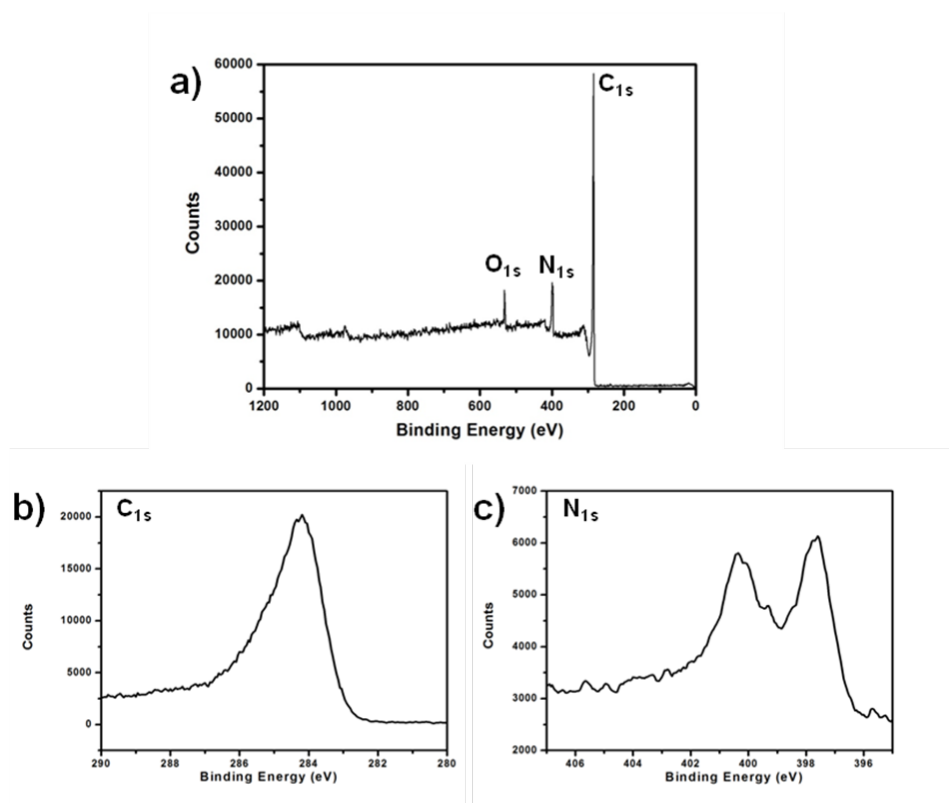


Fig. S5 XPS spectra of the NCMS

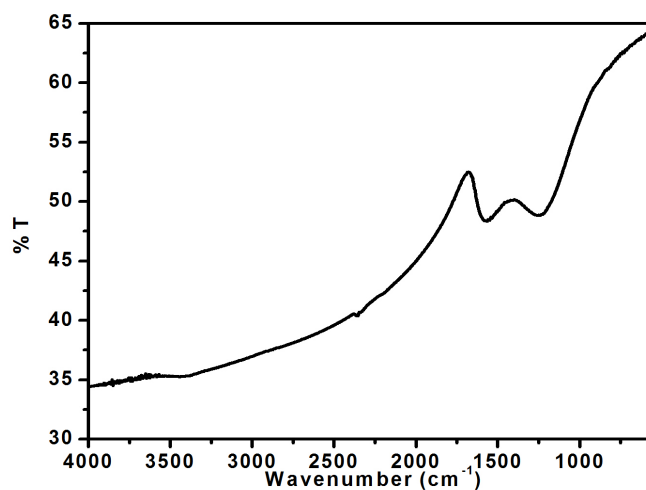


Fig. S6 FT-IR spectrum of the NCMS

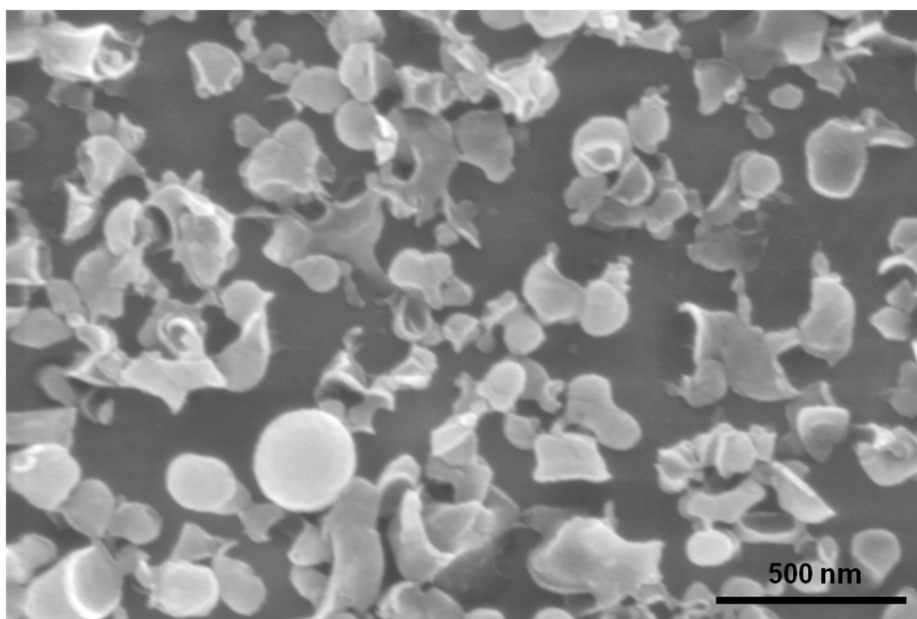


Fig. S7 A SEM image of the MF particles using the Pluronic P123 surfactant instead of the F127 surfactant