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Free-radical reaction synthesis of carbon by nitrogenous organic molecules and CCl_4

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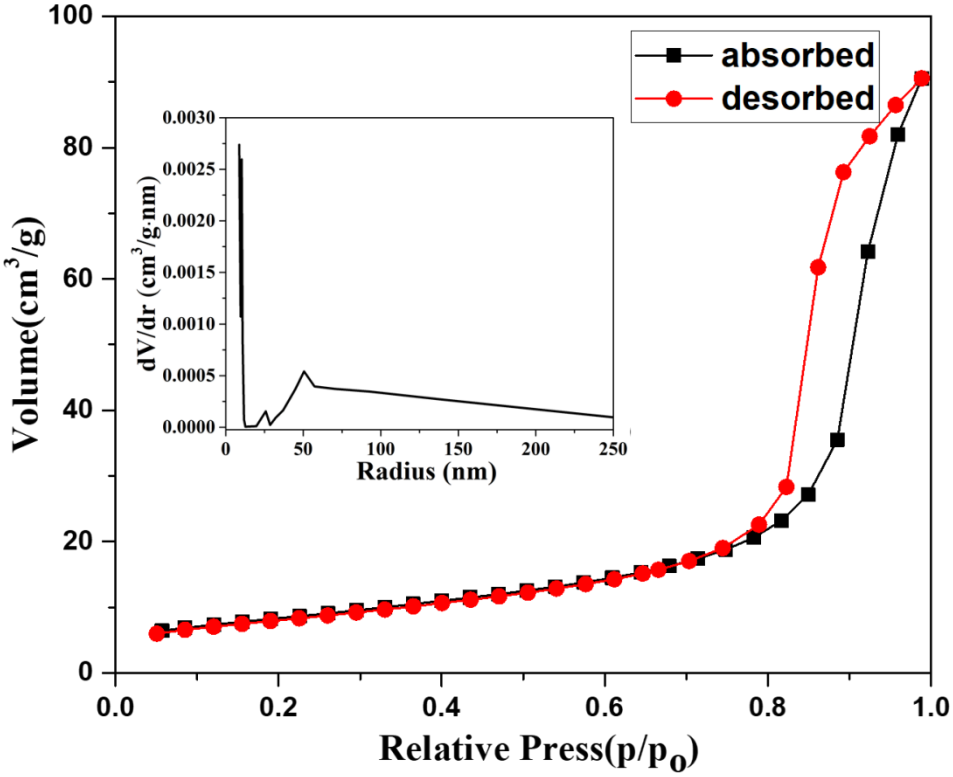

Fig. S1. N_2 absorption-desorption isotherms and pore size distribution (inset pattern) of the carbon hollow spheres.

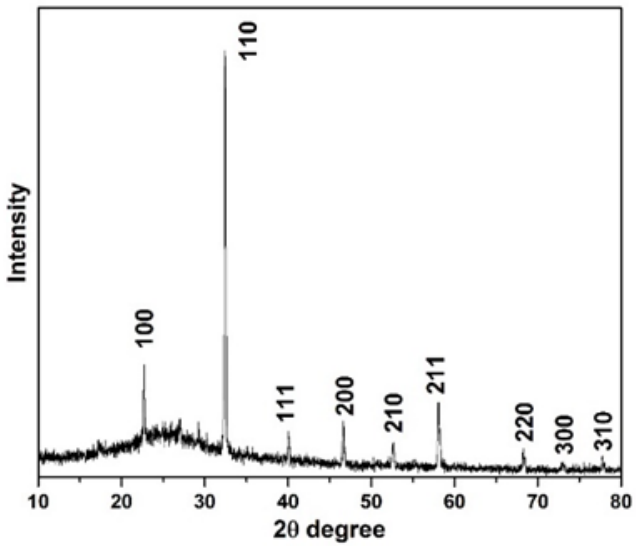

Fig. S2. XRD pattern of the unwashed solid product. (NH_4Cl, Space group: Fm-3m, cubic, PDF No. 34-0710)

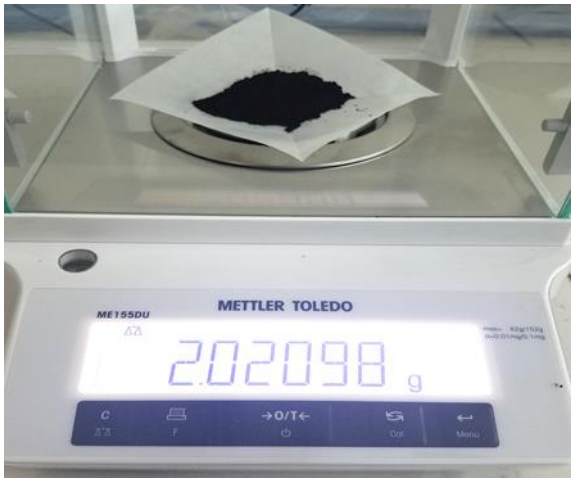

Fig. S3. Optic image of the carbon hollow spheres obtained in one pot reaction.

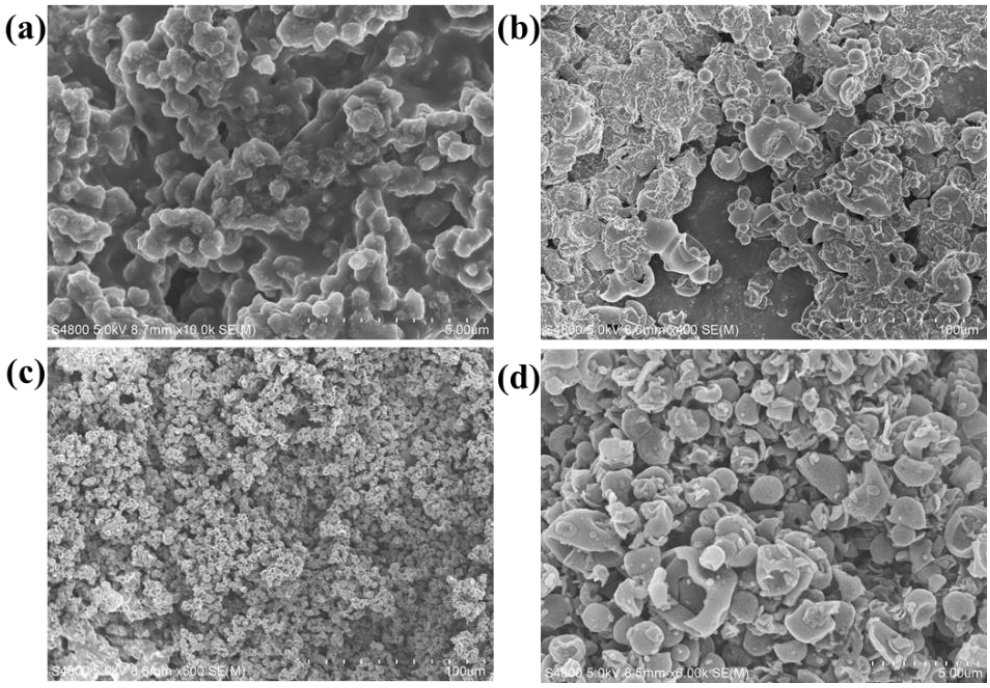

Fig S4. SEM images carbon products obtained in different P123 dosage, (a-d) 0, 1, 2, 6 mL.

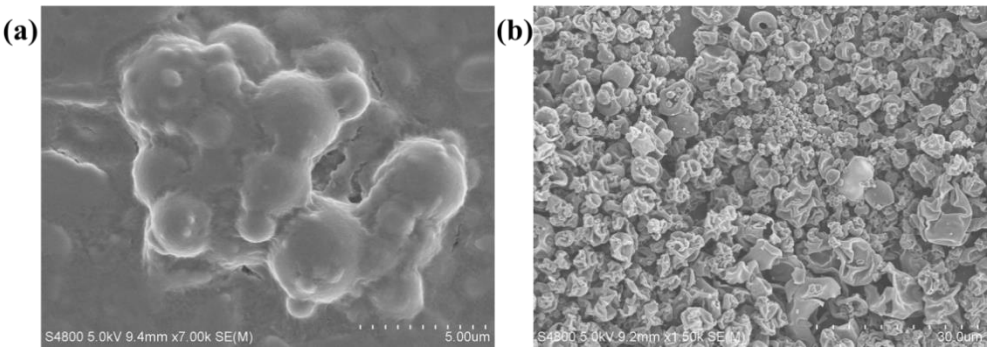

Fig. S5 SEM images of the products obtained at different reaction time, (a) 1 h, (b) 2 h.

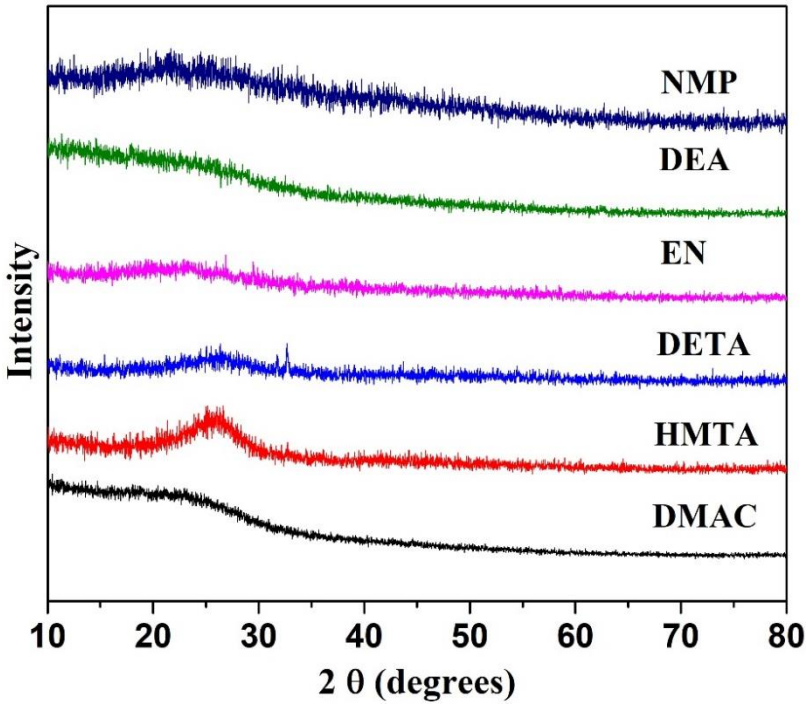

Fig. S6 XRD pattern of the products obtained by using different nitrogenous organic molecule.

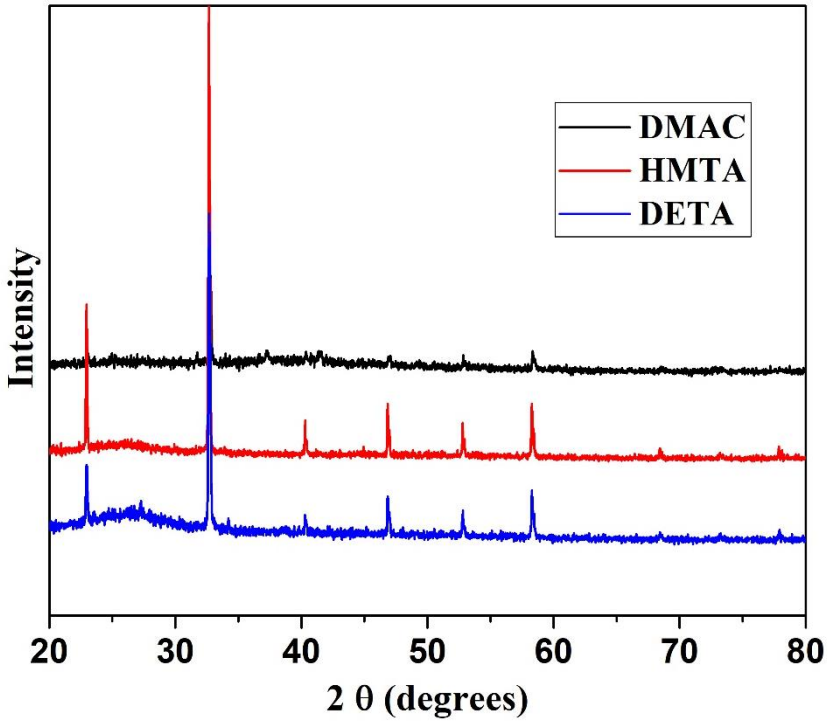

Fig S7. XRD pattern of the unwashed solid products by using DMAC, HMTA and DETA, all the peaks can also be indexed by cubic phase NH_4Cl.