Supporting Information

Microporous Ag/Carbon Hollow Spheres with High Catalytic Activity Based on Bio-Inspiration Polydopamine Reaction Platform

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Fig. S1. Schematic diagram of the apparatus used for the measurement of catalytic performance of the hollow Ag/Carbon towards CO oxidation (C. Zhou, Y. Zhang, L. Hu, H. Yin and W.Wang, *Chem. Eng. Technol.*, 2015, **38**, 291).



Fig. S2. XRD patterns of the Ag/PDA-PMMA spheres (a), and hollow Ag/Carbon spheres (b).



Fig. S3. TEM images of the hollow Ag/Carbon spheres.



Fig. S4. N_2 adsorption/desorption (77 K) isotherms of the Ag/PDA-PMMA spheres (a), and hollow Ag/Carbon micropous spheres (b).



Fig. S5. Reaction scheme of the conversion of 4-nitrophenol to 4-aminophenol and corresponding colour change after reaction by using hollow Ag/Carbon spheres as catalyst.



Fig. S6. Conversion of 4-nitrophenol in 2 min versus the number of catalyst recycles.