Supporting Informations

Three-Dimensionally Ordered Macroporous Spinel-type MCr$_2$O$_4$ (M = Co, Ni, Zn, Mn) Catalysts with Highly Enhanced Catalytic Performance for Soot Combustion

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**Figure S1** FESEM images of the synthesized PMMA microspheres.
Figure S2 Schematic flowing chart of the reaction system for soot combustion.
Figure S3 FESEM images of different bulk catalysts: (a) BK-Co, (b) BK-Ni, (c) BK-Zn and (d) BK-Mn.
Figure S4 N₂ adsorption-desorption isotherms and the corresponding pore size distribution curves of the bulk catalysts.
Figure S5 Soot combustion efficiency without catalysts.
Figure S6  N₂ adsorption-desorption isotherm and the corresponding pore size distribution curve (a), XRD (b), H₂-TPR(c) and O₂-TPD (d) patterns of BK-Co-500 catalysts.
Figure S7 Comparative study of soot combustion efficiency over bulk and 3DOM CoCr$_2$O$_4$ catalysts.