Supporting Information

Enhanced soot oxidation activity over CuO/CeO$_2$ mesoporous nanosheets

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Fig. S1 Schematic flowing chart of the reaction system for soot oxidation.

Fig. S2 $N_2$ adsorption-desorption isotherms, FESEM image (inset) and elemental compositions (inset) of pure soot (MA100 Mitsubishi, Japan).
Fig. S3 FESEM image of crushed CuCe7.2.

Fig. S4 Soot oxidation efficiency for pure soot without catalysts.
Fig. S5 N$_2$ adsorption-desorption isotherms of CuCe7.2-600 (a) and catalytic performances of CuCe7.2-600 and CuCe9.5 (b).

Fig. S6 Catalytic performances of crushed CuCe7.2 for soot oxidation.
**Fig. S7** Effect of feed composition on soot oxidation activity of crushed CuCe7.2.

**Fig. S8** Effect of contact mode on soot oxidation activity over CuCe7.2.
**Fig. S9** Stability test of CuCe7.2 for soot oxidation.

**Fig. S10** XRD pattern and FESEM image of CuCe7.2 after the 6th recycle.