Study of Synergistic Effect between CuO and CeO$_2$ over CuO@CeO$_2$

Core-Shell Nanocomposites for NH$_3$-SCO

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Summary

This supporting information contains a total of 5 pages, including 4 figures.
Figure S1 Ce 3d XPS spectra of CuO@CeO$_2$-8 catalyst before and after H$_2$ reduction (10%H$_2$-Ar, 400°C, 1h).
Figure S2 Production of NO₂ (m/e=46) over CuO@CeO₂-X.
Figure S3 Selectivity of N$_2$ and NO$_x$ over CuO@CeO$_2$-X at each temperature point. (a) CuO@CeO$_2$-2, (b) CuO@CeO$_2$-4, (c) CuO@CeO$_2$-8, (d) CuO@CeO$_2$-16.
Figure S4 Stability test of CuO@CeO$_2$-8 (a) and crystalline comparison of fresh and spent CuO@CeO$_2$-8 (b).