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SUPPLEMENTARY MATERIAL TO  
**Copper(II) complex of ( $\pm$ )*trans*-1,2-cyclohexanediamine  
azo-linked Schiff base ligand encapsulated in the nanocavity of  
zeolite-Y for the catalytic oxidation of olefins**

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PHYSICAL AND SPECTRAL DATA FOR H<sub>2</sub>L AND CuL

*H*<sub>2</sub>*L*. Yield: 57 %; m.p. 156 °C; IR (KBr, cm<sup>-1</sup>): 1281 (C–O), 1488 (C=C), 1630 (CH=N), 3449 (OH); <sup>1</sup>H-NMR (250 MHz, CDCl<sub>3</sub>,  $\delta$  / ppm): 1.49–2.11 (8H, *m*, CH<sub>2</sub>), 3.43–3.46 (2H, *m*, CH), 8.23 (H, *s*, HC=N), 8.41 (2H, *s*, HC=N), 7.00–7.94 (16H, *m*, Ar-H), 10.05 (*s*, H, OH), 11.35 (*s*, H, OH); UV–Vis (CH<sub>3</sub>CN,  $\lambda_{\max}$  / nm): 242, 280 (*sh*), 377.

*CuL*. Yield: 85 %; m.p. 291 °C, IR (KBr, cm<sup>-1</sup>): 1110 (C–O), 1463 (C=C), 1608 (CH=N); UV–Vis (CH<sub>3</sub>CN,  $\lambda_{\max}$  / nm): 243, 329, 524.

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