Supporting Information

Selective hydrogenation of CO_2 to methanol catalyzed by Cu supported on rod-like $La_2O_2CO_3$

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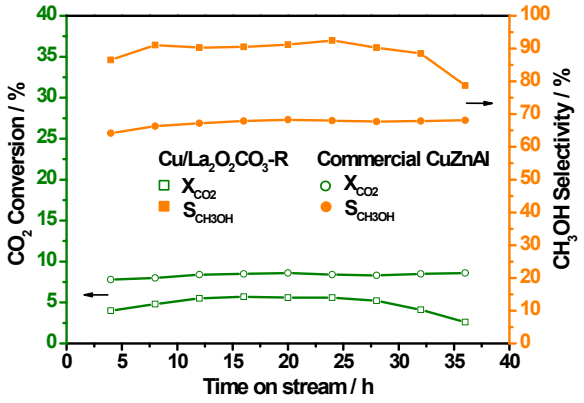

Fig. S1 Stability of $Cu/La_2O_3CO_3$-R and commercial CuZnAl catalysts. Reaction conditions: 3.0 MPa, 240 °C, GHSV = 12000 mL (STP) g-cat^{-1} h^{-1}.

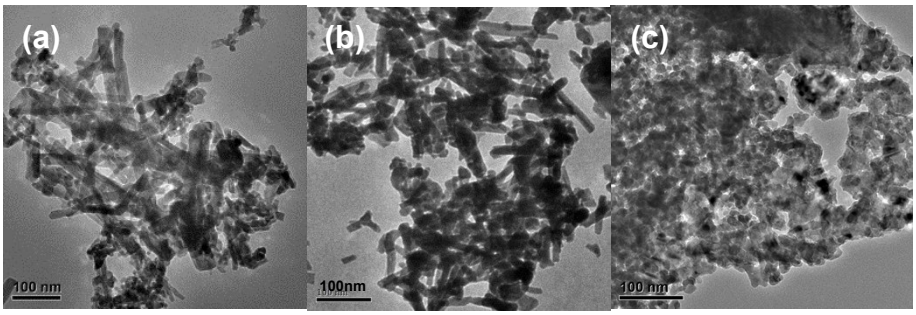

Fig. S2 TEM images of (a) $Cu/La_2O_3CO_3$-R after 24 h reaction and (b) $Cu/La_2O_3CO_3$-R after 36 h reaction. (c) $Cu/La_2O_3CO_3$-A after reduction.

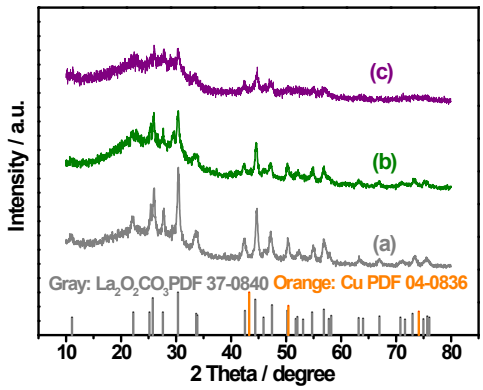

Fig. S3 XRD patterns of (a) $Cu/La_2O_3CO_3$-R before reaction, (b) $Cu/La_2O_3CO_3$-R after 24 h reaction, and (c) $Cu/La_2O_3CO_3$-R after 36 h reaction.