

Supplementary Material

# Copper and Iron Cooperation on Micro-Spherical Silica during Methanol Synthesis via CO<sub>2</sub> Hydrogenation

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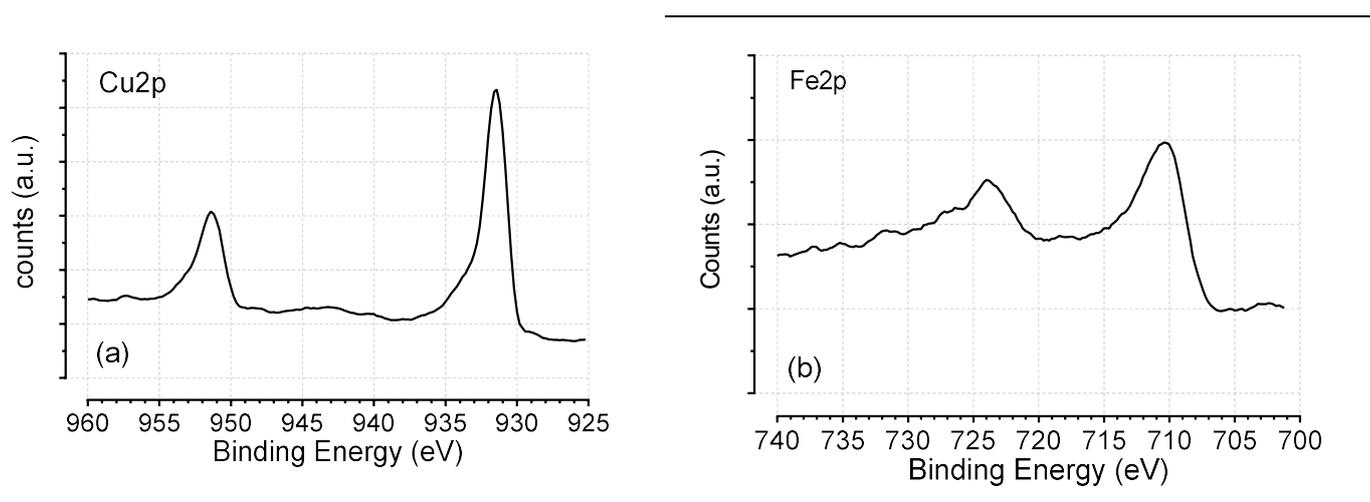
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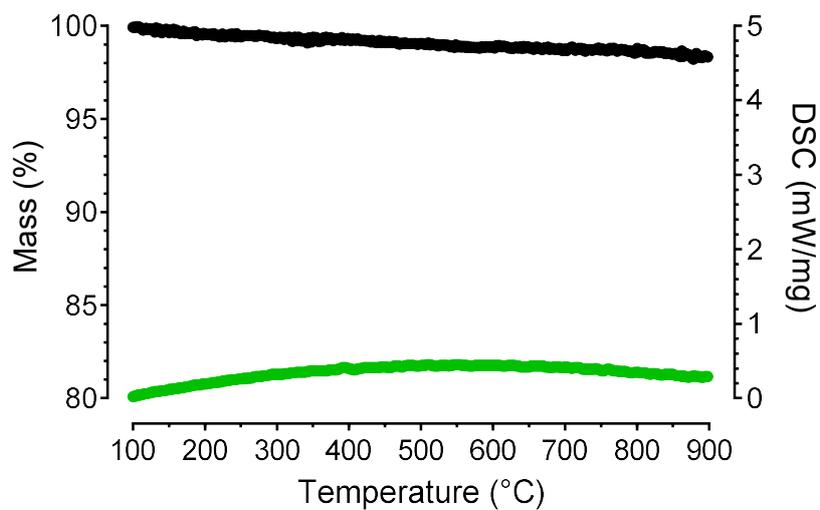
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**Figure S1.** Cu2p XPS (a) and Fe2p XPS (b) spectra for the Cu(10)-Si and Fe(10)-Si samples respectively.



**Figure S2.** TG-DSC analysis on the Cu(3)Fe(7)-Si sample after the stability test ( $P_R$ , 30 bar;  $T_R$ , 260 °C; GHSV: 8800 NL/kg<sub>cat</sub>/h; tos, 5400 min).