

## Electronic Supporting information

# Direct synthesis of dimethyl ether from CO<sub>2</sub> hydrogenation over highly active, selective and stable catalyst containing Cu-ZnO-Al<sub>2</sub>O<sub>3</sub>/Al-Zr(1:1)-SBA-15

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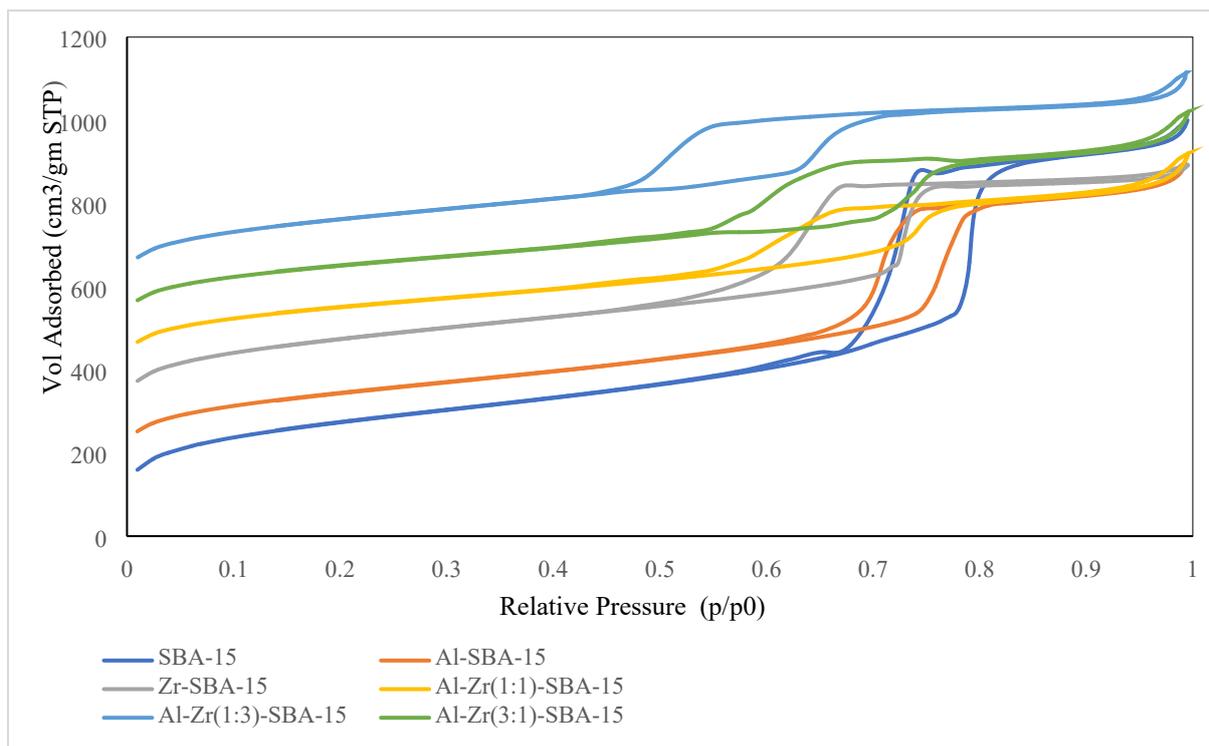
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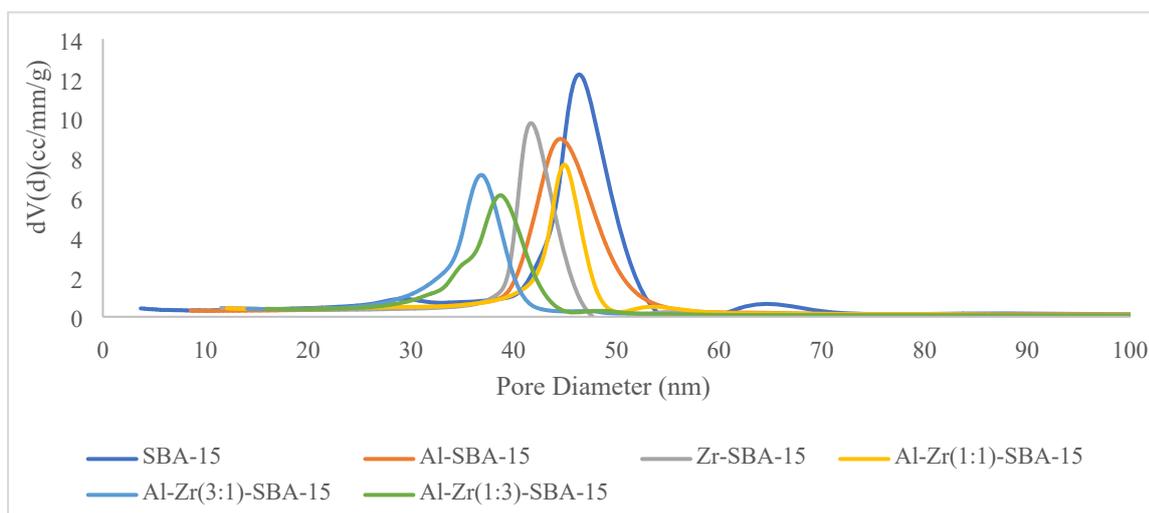
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**Figure S2:** Pore size distribution curves of different metal-doped SBA-15 samples prepared with different Al and Zr content.



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**Figure.2.** Pore size distribution curves of different metal-doped SBA-15 samples prepared with different Al and Zr content.