

Supplementary information

Spatiotemporal coke formation over zeolite ZSM-5 during the methanol-to-olefins process as studied with *operando* UV-vis spectroscopy: a comparison between H-ZSM-5 and Mg-ZSM-5

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Results

Primary and Secondary coke

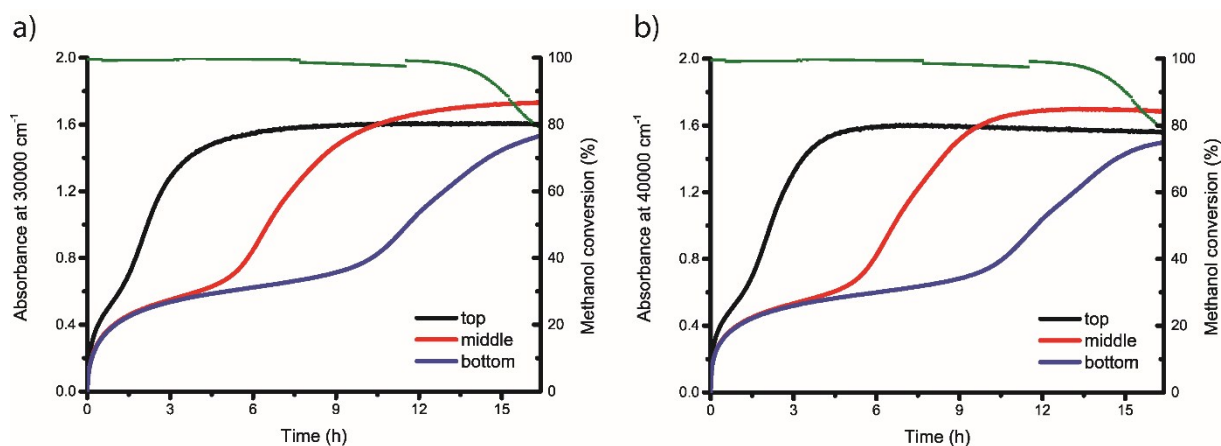


Figure S1. UV-vis absorbance at (a) 30000 cm⁻¹, and (b) 40000 cm⁻¹ for H-ZSM-5 at the three positions along the reactor bed vs. time-on-stream.

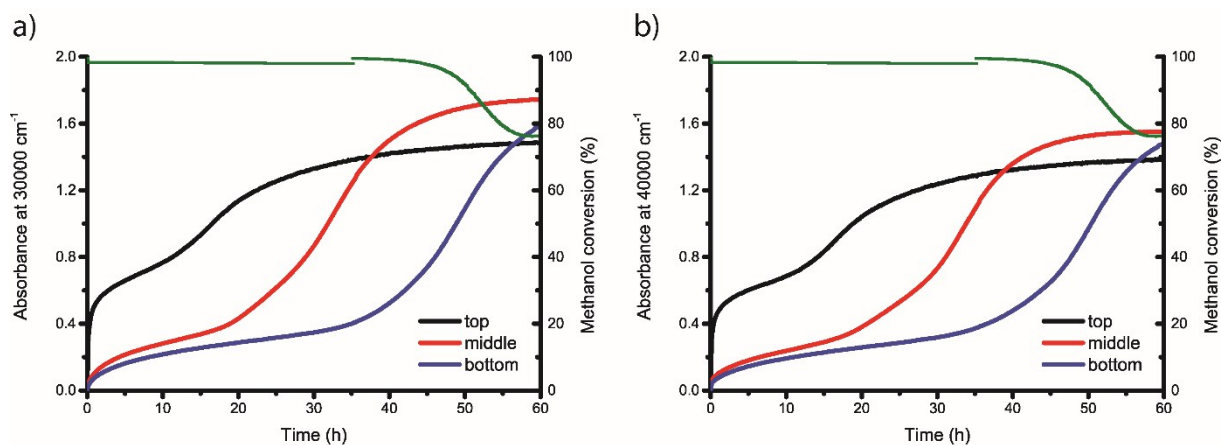


Figure S2. UV-vis absorbance at (a) 30000 cm⁻¹, and (b) 40000 cm⁻¹ for Mg-ZSM-5 at the three positions along the reactor bed vs. time-on-stream.