

Supplementary material for:

Promotional effect of Fe on performance of Ni/SiO₂ for deoxygenation
of methyl laurate as a model compound to hydrocarbons

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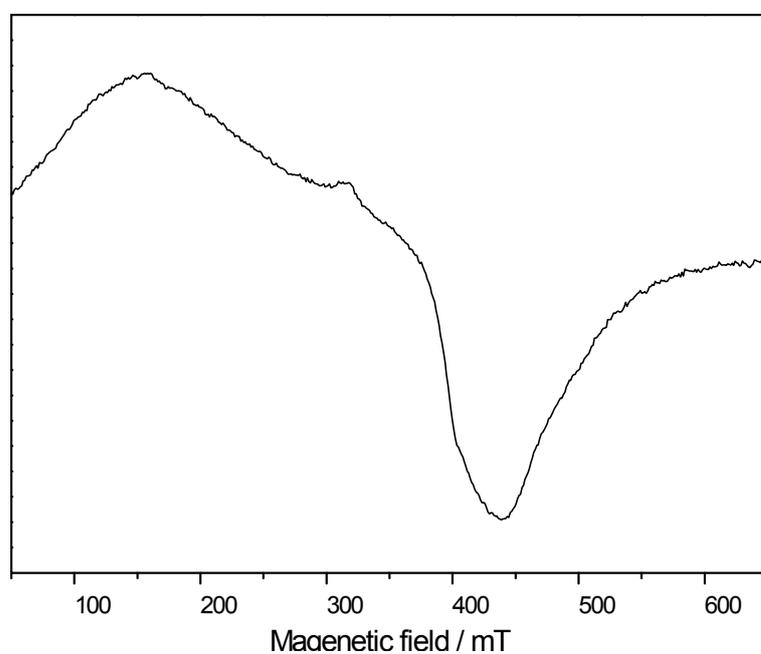


Fig.S1. ESR spectra of reduced FeNi(0.25)/SiO₂ sample recorded at room temperature

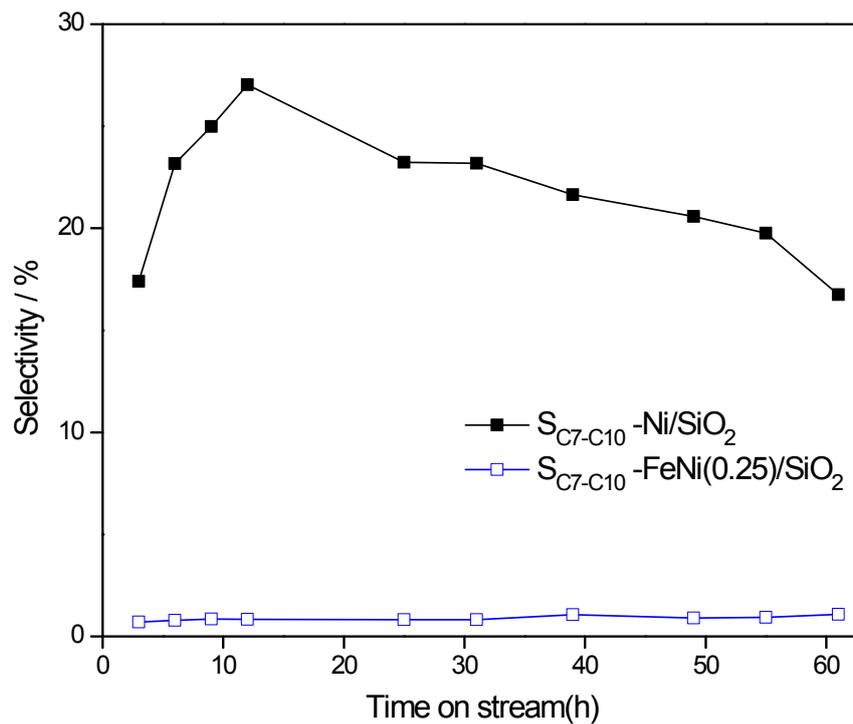


Fig.S2. Selectivity to C7-C10 on Ni/SiO₂ and FeNi(0.25)/SiO₂ as the function of time. Reaction conditions: 613 K, 3 MPa H₂, WHSV of 10 h⁻¹, H₂/ methyl laurate molar ratio of 25.

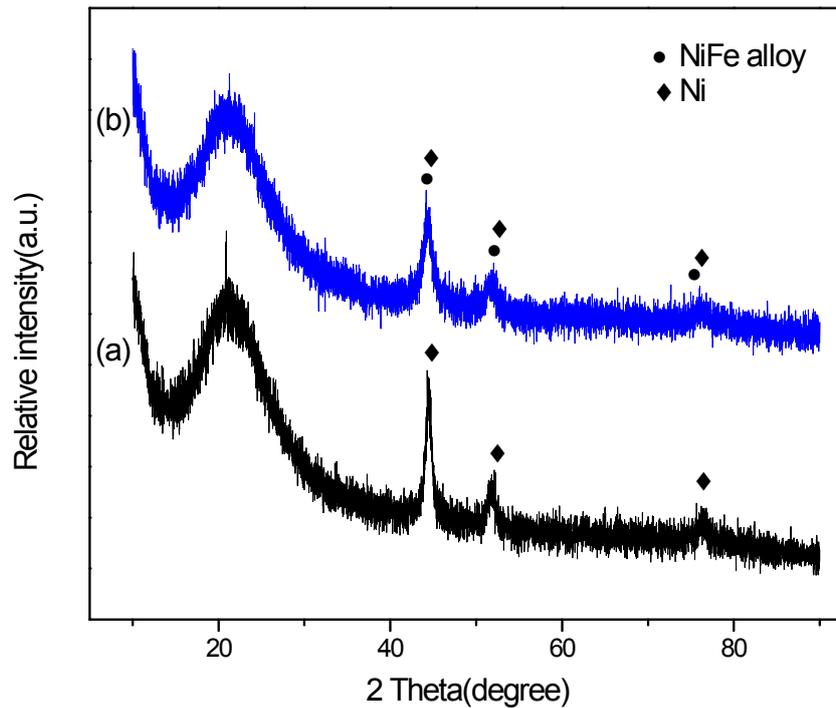


Fig.S3. XRD patterns of spent catalysts: (a) Ni/SiO₂, (b) FeNi(0.25)/SiO₂,

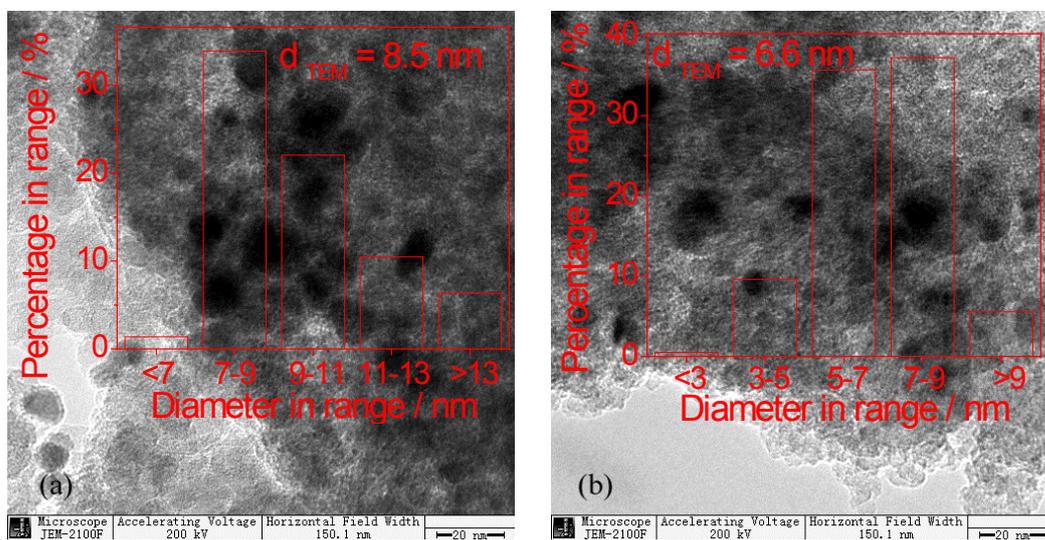


Fig.S4. TEM images of spent catalysts: (a) Ni/SiO₂, (b) FeNi(0.25)/SiO₂;

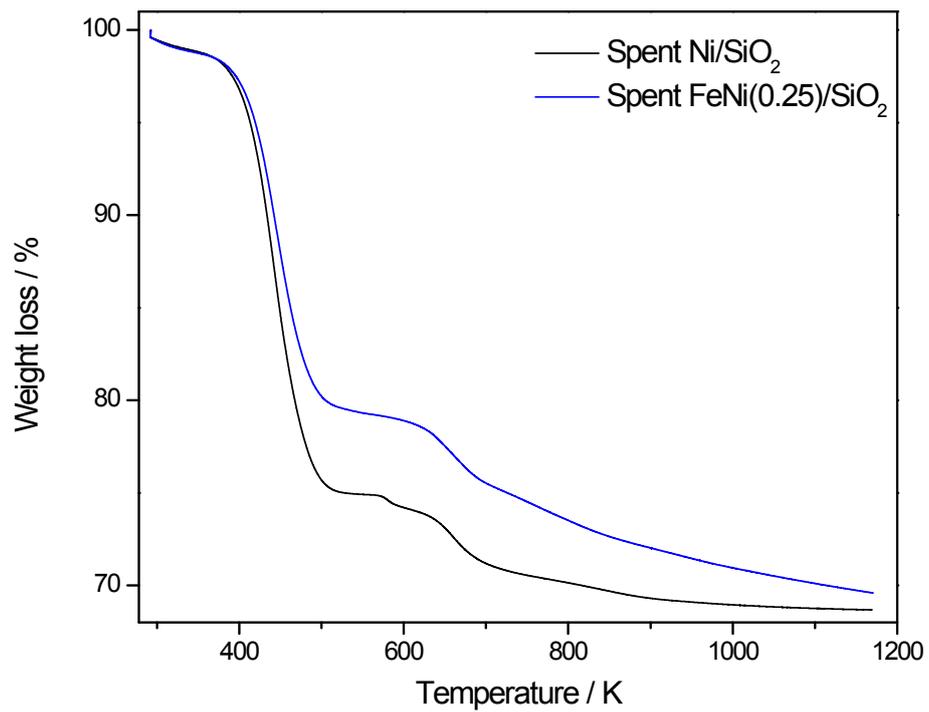


Fig.S5. TG curves of spent catalysts