

Supplementary Materials

Tailoring Properties of Metal-Free Catalysts for the Highly Efficient Desulfurization of Sour Gases under Harsh Conditions

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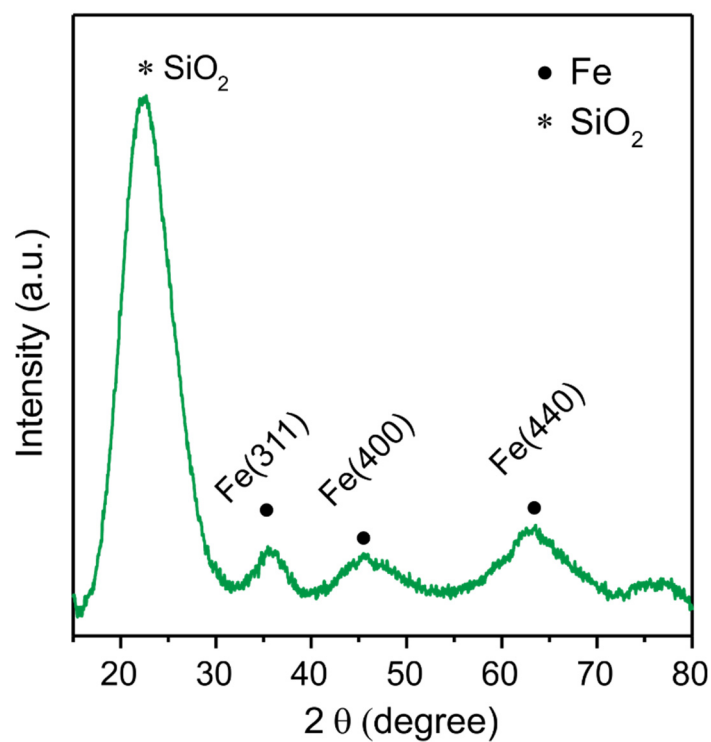


Figure S1. XRD profile of the benchmark $\text{Fe}_2\text{O}_3/\text{SiO}_2$ catalyst (Fe 2.6 wt.%).

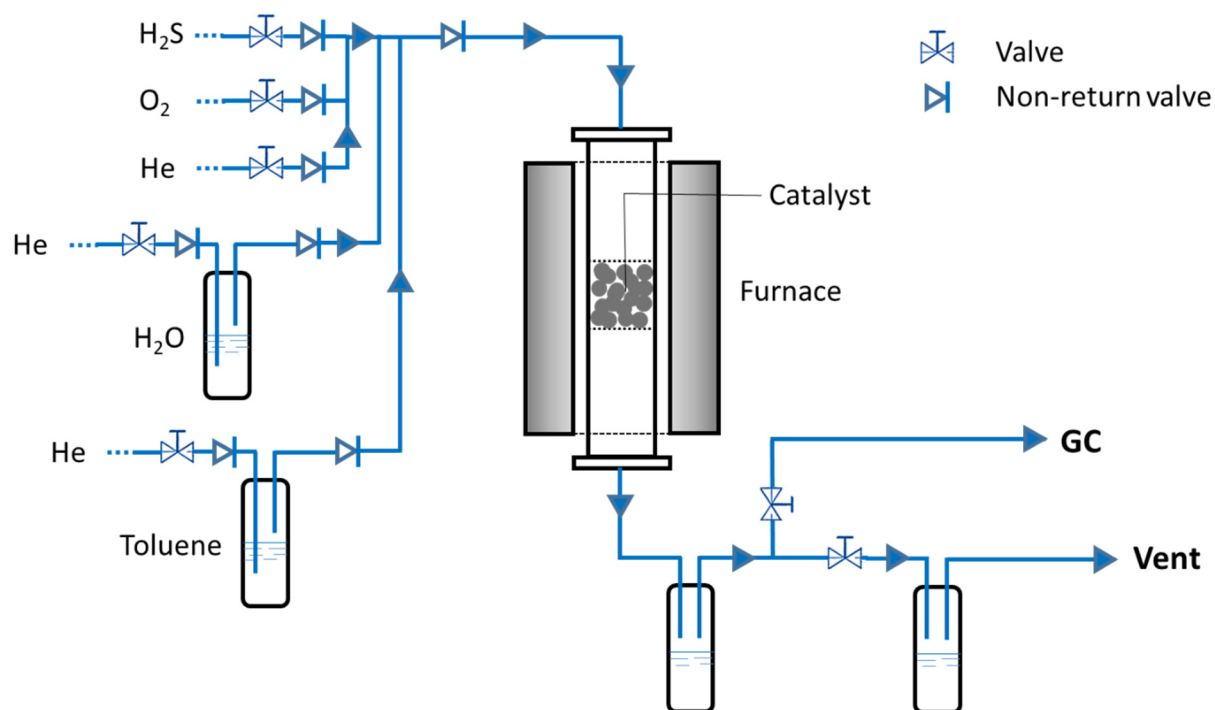


Figure S2. Schematic representation of a desulfurization apparatus for catalytic tests with $\text{N-C}^2/\text{SiC}$ and $\text{N-C}^4/\text{SiC}$ as catalysts.

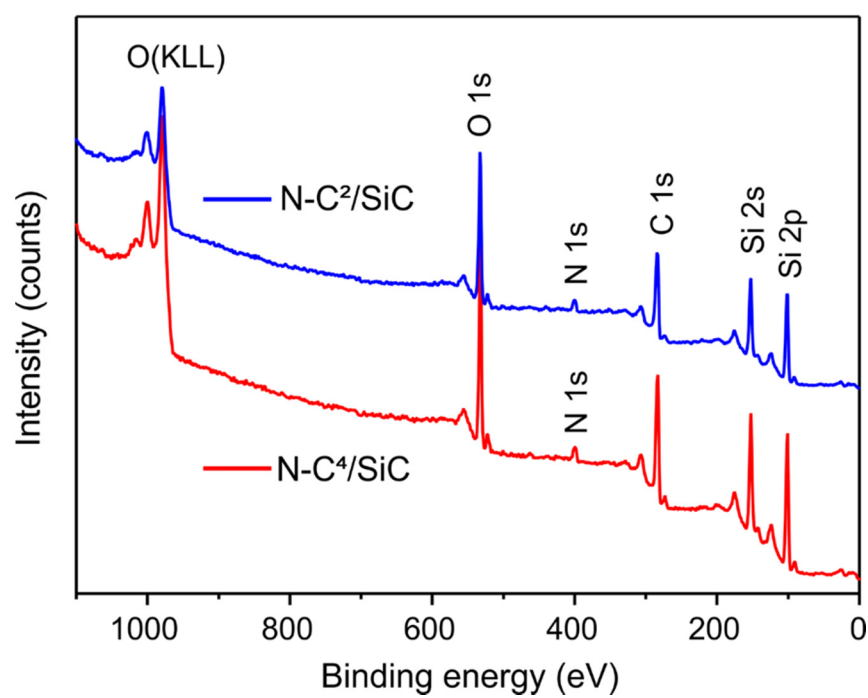


Figure S3. XPS survey spectra of N-C²/SiC (blue line) and N-C⁴/SiC (red line) at comparison.