

Article

Catalytic Hydrogenation of Nitrate over Immobilized Nanocatalysts in a Multi-Phase Continuous Reaction System: System Performance, Characterization and Optimization

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Supplementary material



Figure S1: Macrostructured catalysts before and after coating.

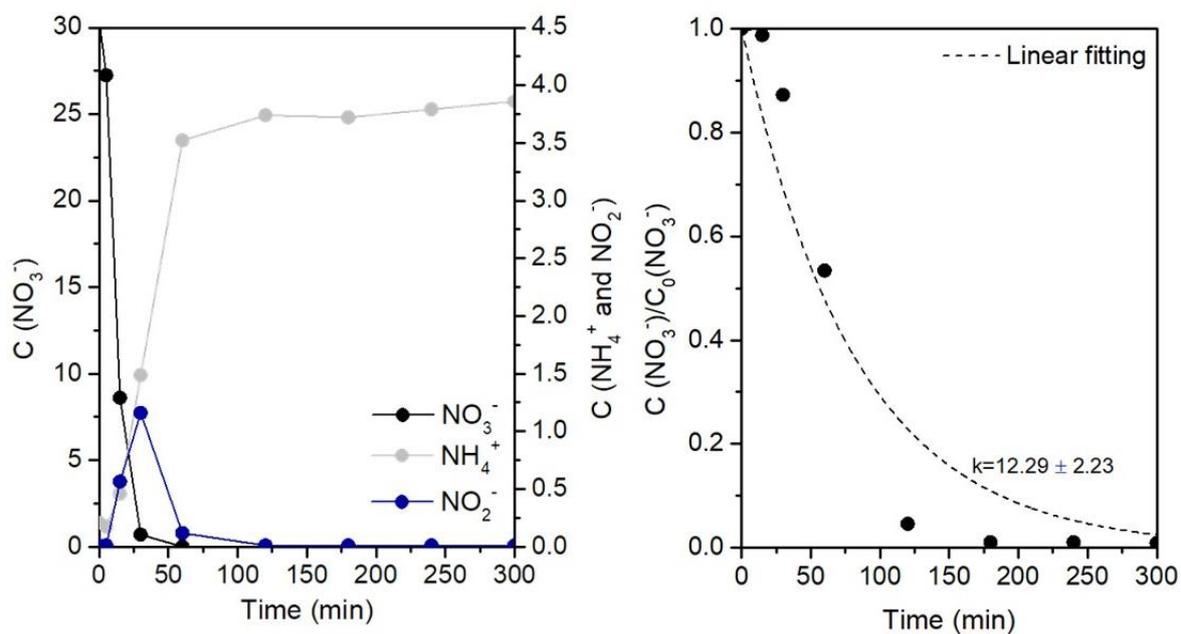


Figure S2: Catalytic results obtained with 5%Pd-2.5%Cu/CNT(BM 2h) powder catalyst in *batch* reactor ($C_{\text{initial}}[\text{NO}_3^-] = 30 \text{ mg L}^{-1}$, $200 \text{ Ncm}^3/\text{min}$ ($\text{H}_2 + \text{CO}_2$ (1:1))).

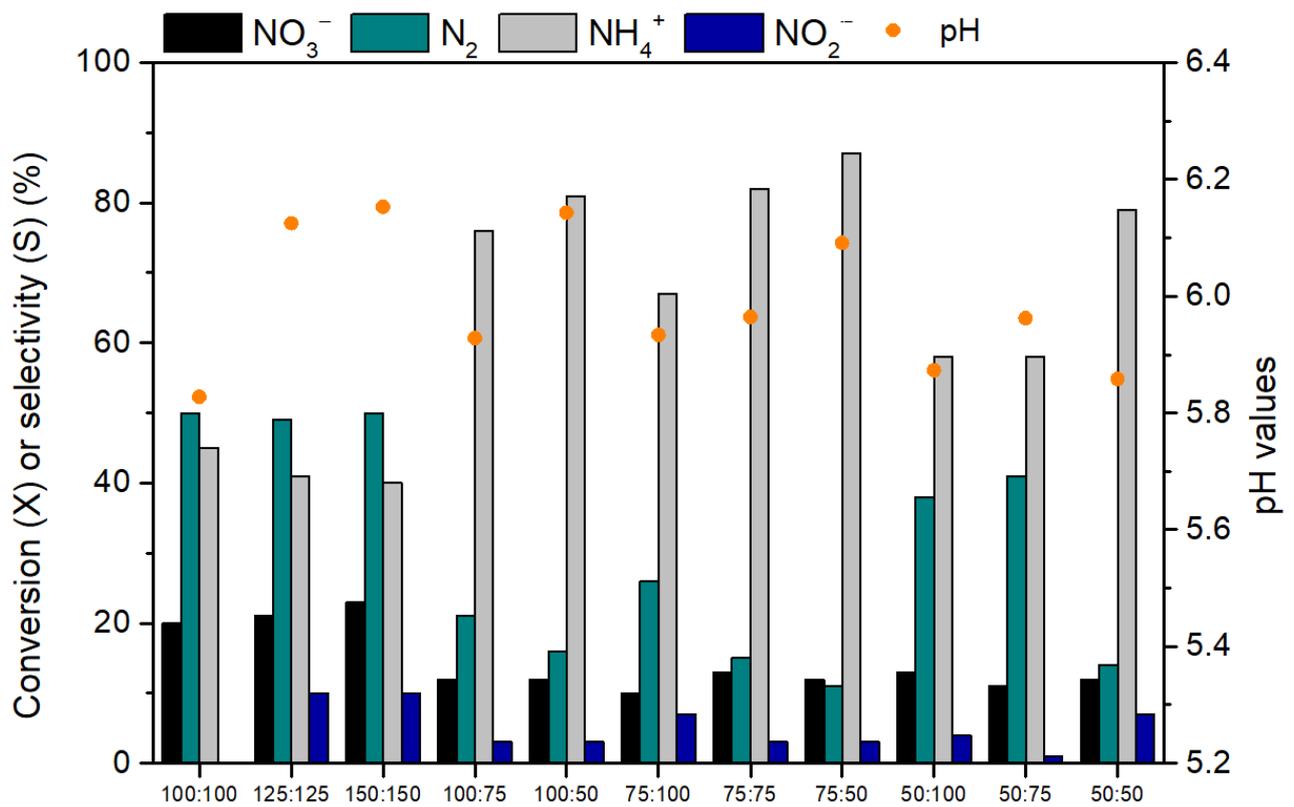


Figure S3: NO₃⁻ conversion and respective N₂, NH₄⁺ and NO₂⁻ selectivities obtained for different gas flow rate combinations and the pH value measured at the end of reaction time ($C_{\text{initial}}[\text{NO}_3^-]=30 \text{ mg L}^{-1}$, $Q_{\text{liquid}}=10 \text{ mL min}^{-1}$, and Pd-Cu/WCP_wash catalyst).

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