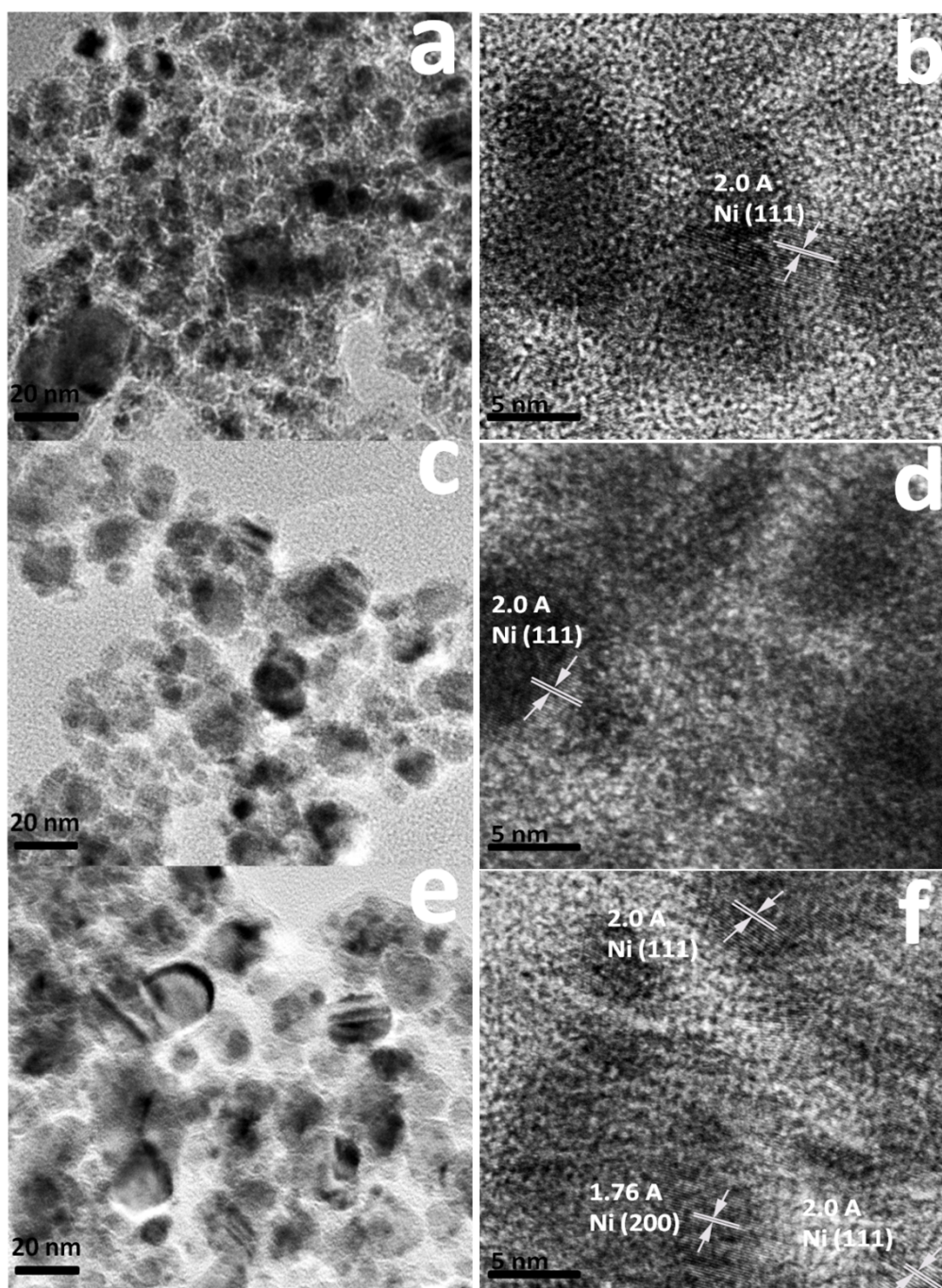


Supporting Information

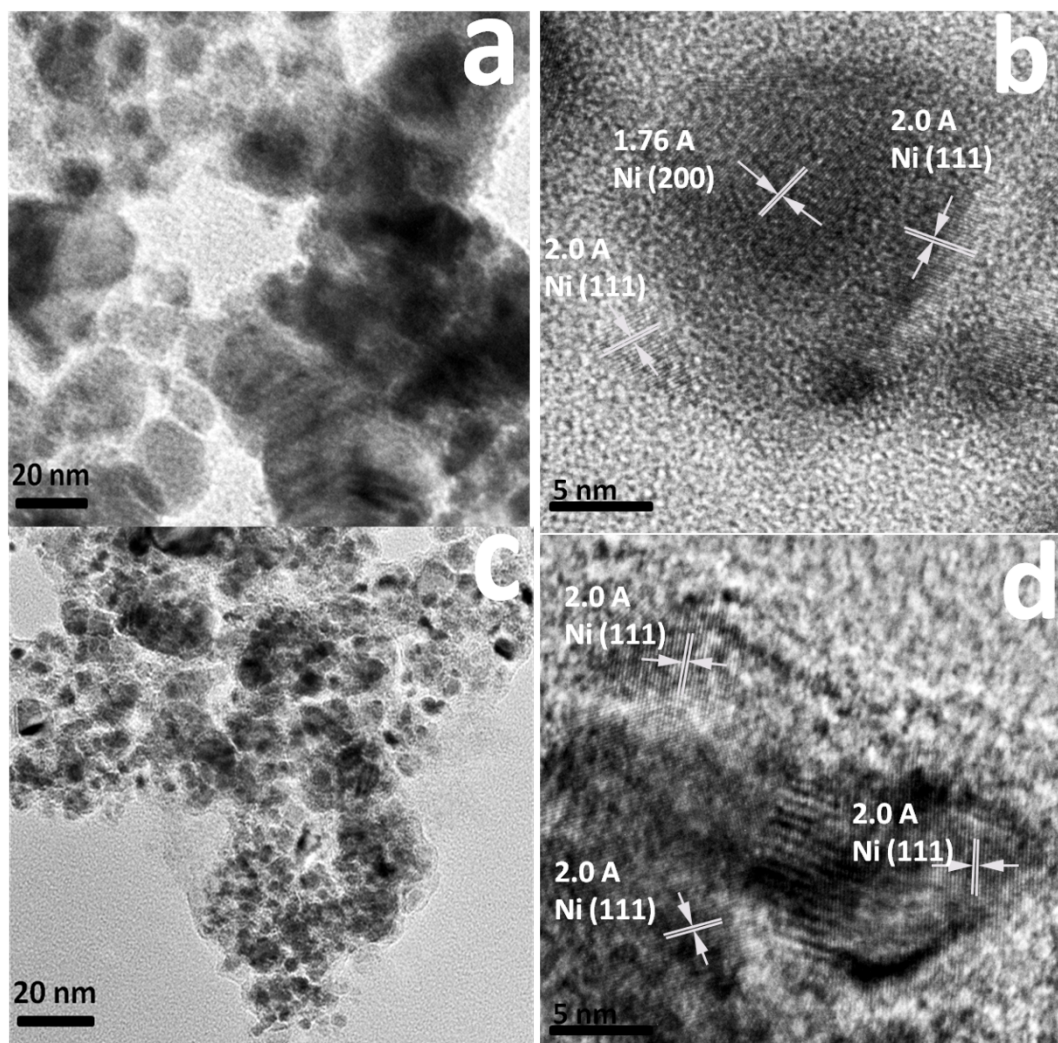
The Cooperative Transformation of Nitroarenes and Biomass-Based Alcohols Catalyzed by CuNiAlO_x

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1. **Figure S1.** TEM and HR-TEM images of $\text{Cu}_1\text{Ni}_4\text{Al}_1\text{O}_x$ -450 (a, b), $\text{Cu}_2\text{Ni}_4\text{Al}_{0.5}\text{O}_x$ -450 (c, d) and $\text{Cu}_1\text{Ni}_4\text{Al}_{0.5}\text{O}_x$ -450 (e, f).



2. **Figure S2.** TEM and HR-TEM images of $\text{Cu}_1\text{Ni}_4\text{Al}_{0.5}\text{O}_x-350$ (a, b) and $\text{Cu}_1\text{Ni}_4\text{Al}_{0.5}\text{O}_x-650$ (c, d).



3. **Figure S3.** XPS spectra of Cu_{2p} and Ni_{2p} of a) $\text{Cu}_1\text{Ni}_4\text{AlO}_x-450$, b) $\text{Cu}_2\text{Ni}_4\text{Al}_{0.5}\text{O}_x-450$, c) $\text{Cu}_1\text{Ni}_4\text{Al}_{0.5}\text{O}_x-350$ d) $\text{Cu}_1\text{Ni}_4\text{Al}_{0.5}\text{O}_x-450$, e) $\text{Cu}_1\text{Ni}_4\text{Al}_{0.5}\text{O}_x-600$ and f) $\text{Cu}_1\text{Ni}_4\text{Al}_{0.5}\text{O}_x-650$.

