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Supplementary Information for:

Transfer Hydrogenation and Hydration of Aromatic Aldehydes and Nitriles Using Heterogeneous NiO Nanofibers as a Catalyst

S. Thenmozhi\textsuperscript{a} and K. Kadirvelu\textsuperscript{a,*}
\textsuperscript{a} DRDO-BU Centre for Life Sciences, Bharathiar University Campus, Coimbatore – 641 046, India. Coimbatore – 641 046, India.
\textsuperscript{*} Corresponding Author E-mail: kadirvelukrishna@yahoo.com
Tel: +91-0422-2428156
Fax: +91-0422-2425459

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Figure S1. TGA curve of Composite NFs

Figure S2. Plot of pore size distribution of (a) Composite and (b) NiO NFs
GC-MS spectra of Hydrogenated and Hydrated Products

Compound 1a (2-Chlorobenzenemethanol)

Compound 1b (2-Bromobenzenemethanol)

Compound 1c (2-Fluorobenzenemethanol)
Compound 1d (3-Bromobenzenemethanol)

Compound 1g (3-Fluorobenzenemethanol)

Compound 1f (4-Fluorobenzenemethanol)
Compound 1e (4-Bromobenzenemethanol)

Compound 1i (3-Methylbenzenemethanol)

Compound 1h (4-Methylbenzenemethanol)
Compound 1k (4-Methoxybenzenemethanol)

Compound 1j (3-Methoxybenzenemethanol)

Compound 1l (2-Methoxybenzenemethanol)
Compound 1m (2,4-Dimethoxybenzenemethanol)

Compound 2a (Benzamide)

Compound 2e (2-Flurobenzamide)
Compound 2f (4-Flurobenzamide)

Compound 2b (2-Chlorobenzamide)

4-Chlorobenzamide
Compound 2c (3-Chlorobenzamide)

Compound 2g (2-Nitrobenzamide)
GC spectra of Hydrogenated and Hydrated Products

Compound 1a (2-Chlorobenzenemethanol)
Compound 1c (2-Fluorobenzenemethanol)

Compound 1e (4-Bromobenzenemethanol)
Compound 1i (3-Methylbenzenemethanol)

Compound 1k (4-Methoxybenzenemethanol)
Compound 1m (2,4-Dimethoxybenzenemethanol)

Compound 2a (Benzamide)
Compound 2c (4-Chlorobenzamide)

![Graph showing 4-Chlorobenzamide intensity over time.]

Compound 2f (4-Fluorobenzamide)

![Graph showing 4-Fluorobenzamide intensity over time.]

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Compound 2g (2-Nitrobenzamide)