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Supporting information

## Facile Hydrogenation of Cinnamaldehyde to Cinnamylether by Employing a Highly Re-usable "Dip-Catalyst" containing Pt Nanoparticles on a Green Support

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Figure S1: m/z value detected by GC-MS with the series of homologous alcohol.



**Figure S2.** a) GC conversion of the cinnamylmethyl ether from the reaction of 1 mmol of cinnamaldehyde and methanol at 115 °C under 30 bar  $H_2$  pressure; (b) GC-MS spectra and its fragmentation pattern of cinnamylmethyl ether.



**Figure S3.** a) GC conversion of the cinnamylmethyl ether from the reaction of 1 mmol of cinnamaldehyde and methanol at 115 °C under 30 bar  $N_2$  pressure (without  $H_2$ ) and GC-MS spectra and its fragmentation pattern of (b) cinnamaldehyde (starting compound); (c)cinnamylmethyl ether; (d) Cinnamyl diacetal.



**Figure S4.** a) GC conversion of the cinnamylethyl ether from the reaction of 1 mmol of cinnamaldehyde and ethanol at 115 °C under 30 bar  $H_2$  pressure; (b) GC-MS spectra and its fragmentation pattern of cinnamylethyl ether.



**Figure S5.** a) GC conversion of the cinnamylpropyl ether from the reaction of 1 mmol of cinnamaldehyde and n-propanol at 135 °C under 30 bar  $H_2$  pressure; (b) GC-MS spectra and its fragmentation pattern of cinnamylpropyl ether.



**Figure S6.** a) GC conversion of the cinnamylbutyl ether from the reaction of 1 mmol of cinnamaldehyde and n-butanol at 135 °C under 30 bar  $H_2$  pressure and GC-MS spectra and its fragmentation pattern of (b) Cinnamaldehyde (starting compound); (c) cinnamylbutyl ether.



**Figure S7.** a) GC conversion of the cinnamylhexyl ether from the reaction of 1 mmol of cinnamaldehyde and n-hexanol at 135 °C under 30 bar  $H_2$  pressure and GC-MS spectra and its fragmentation pattern of (b) Cinnamaldehyde (starting compound); (c) cinnamylhexyl ether.



**Figure S8.** a) GC conversion of the cinnamyloctyl ether from the reaction of 1 mmol of cinnamaldehyde and n-octanol at 135 °C under 30 bar  $H_2$  pressure and GC-MS spectra and its fragmentation pattern of (b) Cinnamaldehyde (starting compound); (c) cinnamyloctyl ether.



**Figure S9.** a) GC conversion of the cinnamylmethyl ether from the reaction of 1 mmol of cinnamaldehyde and methanol-D4 at 115 °C under 30 bar  $H_2$  pressure; (b) GC-MS spectra and its fragmentation pattern of deuterated cinnamylmethyl ether.