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Title: *Mechanochemical Preparation of Advanced Catalytically Active Bifunctional Pd Containing Nanomaterials for Aqueous Phase Hydrogenations*

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Electronic Supporting Information (ESI)

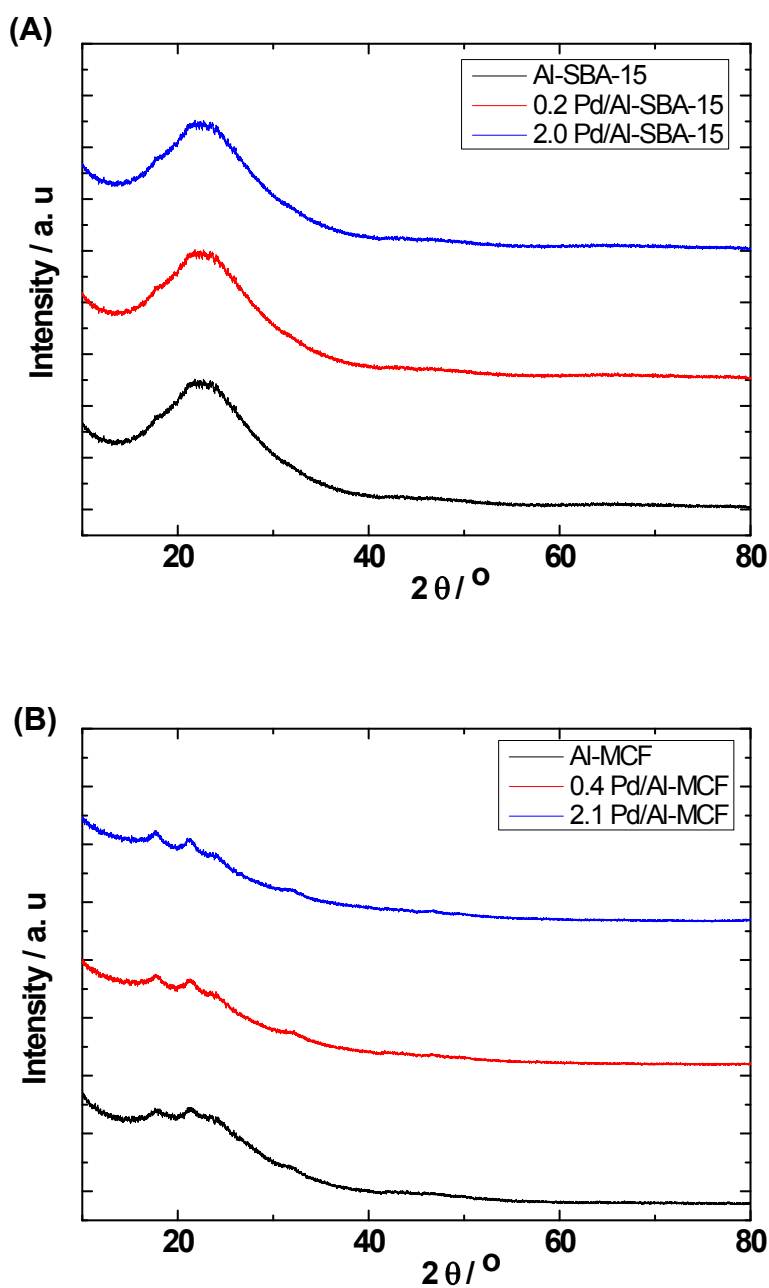


Figure S1. XRD patterns for the prepared catalysts (A) Al-SBA-15, 0.2 Pd/Al-SBA-15 and 2.0 Pd/Al-SBA-15 (B) Al-MCF, 0.4 Pd/Al-MCF and 2.1 Pd/Al-MCF.

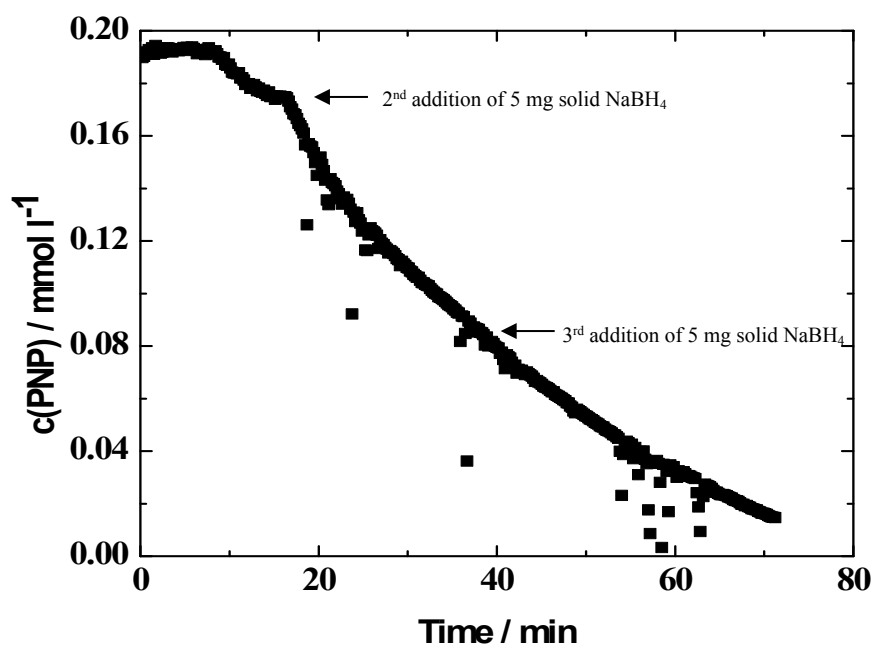


Figure S2. Concentration of PNP as a function of time for the conversion of PNP to PAP with NaBH_4 over using 0.4 Pd/Al-MCF with addition of 5 mg solid NaBH_4 after 20 and 40 min. ($c_{\text{(PNP)}} = 0.18 \text{ mmol L}^{-1}$, $c_{\text{(NaBH}_4)} = 0.60 \text{ mmol L}^{-1}$, $T = 279 \text{ K}$, stirring speed = 1300 min^{-1} , $m_{\text{catalyst}} = 0.07 \text{ g}$).