

**Acceptor-free dehydrogenation of 4-hydroxy-3-methoxybenzyl alcohol to vanillin  
over palladium complex**

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Fig. S1† Nitrogen sorption isotherm of SBA-15, **B**, Catalyst LnPd

Fig. S2† Pore-size distribution of SBA-15, **B**, Catalyst LnPd

Fig. S3† Thermograms in nitrogen atmosphere of **B**

Fig. S4† Thermograms in nitrogen atmosphere of catalyst LnPd

Fig. S5† IR spectra of catalyst LnPd and the recycled catalyst LnPd.

Fig. S6† UV-vis absorption spectra of catalyst LnPd and the recycled catalyst LnPd

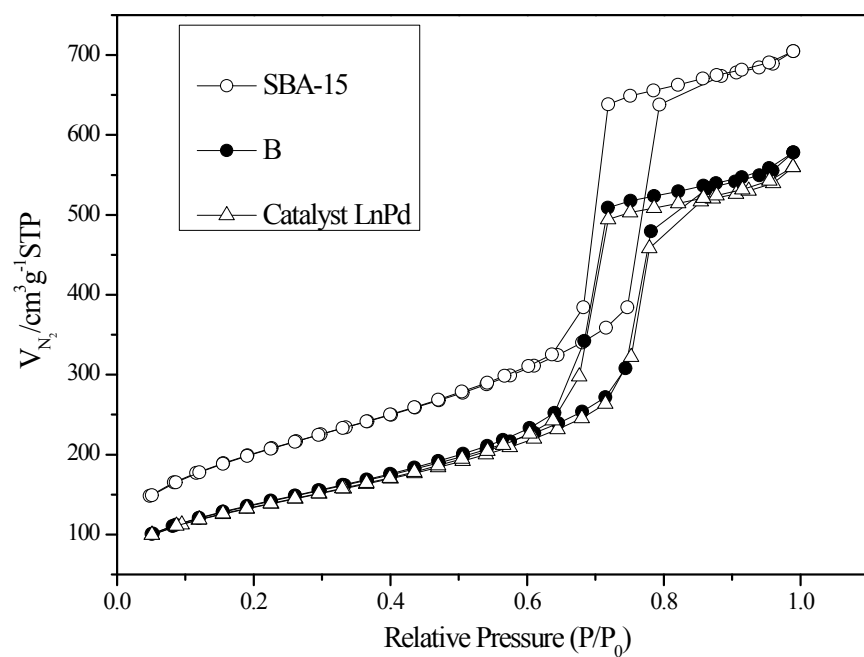


Fig. S1† Nitrogen sorption isotherm of SBA-15, **B**, Catalyst LnPd

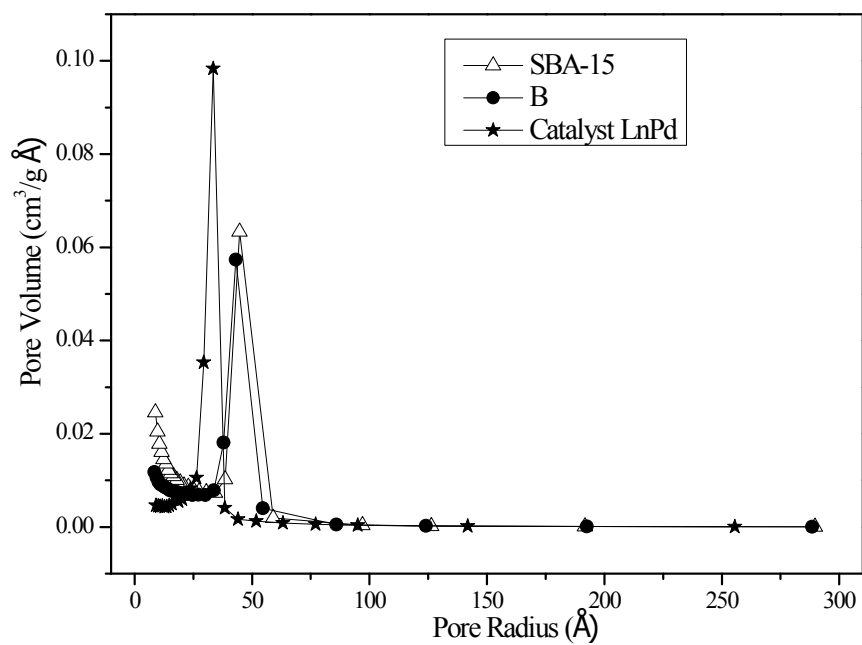


Fig. S2 † Pore-size distribution of SBA-15, **B**, Catalyst LnPd

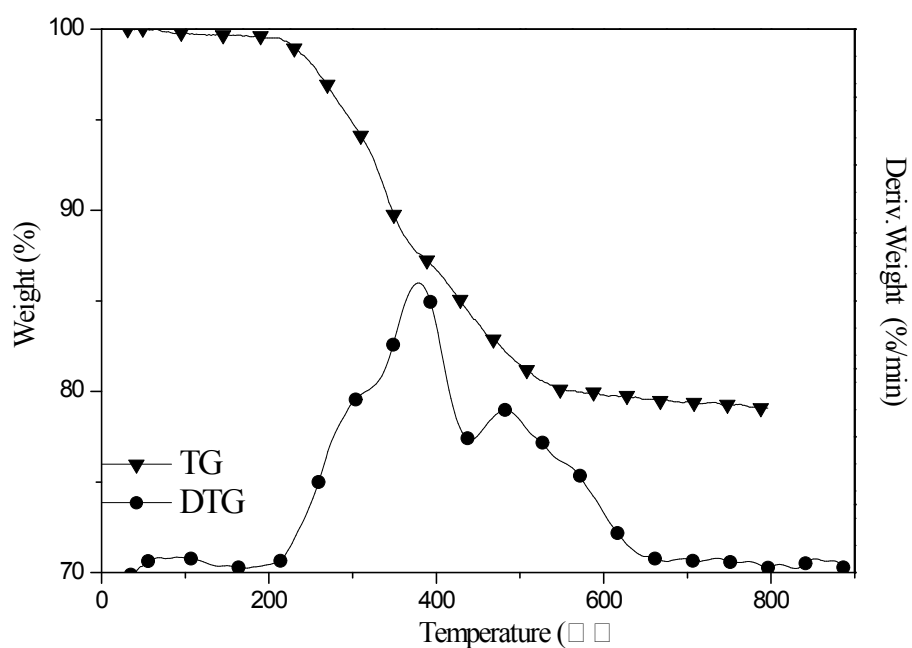


Fig. S3† Thermograms in nitrogen atmosphere of **B**

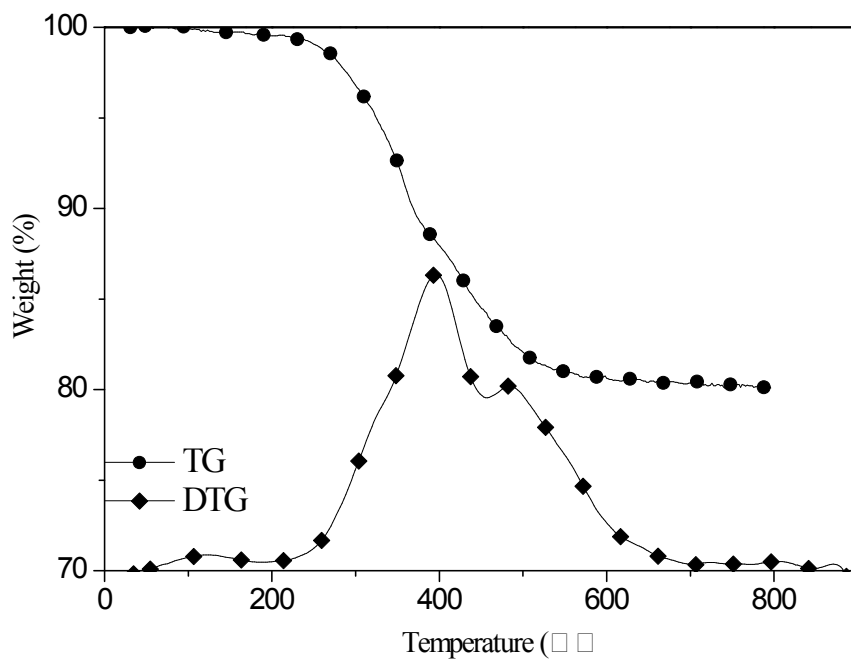


Fig. S4† Thermograms in nitrogen atmosphere of catalyst **LnPd**

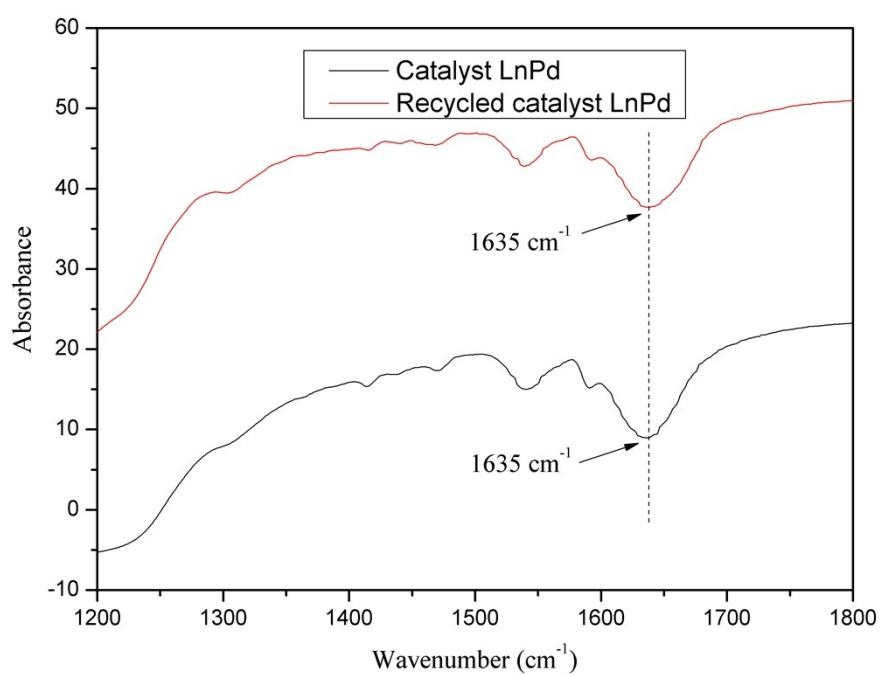


Fig. S5† IR spectra of catalyst LnPd and the recycled catalyst LnPd.

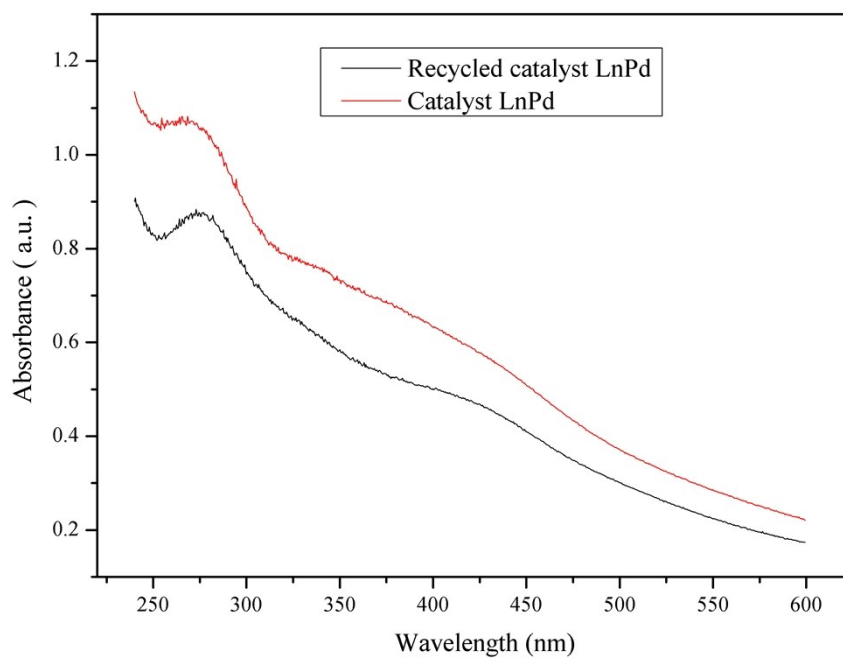


Fig. S6† UV-vis absorption spectra of catalyst LnPd and the recycled catalyst LnPd