

Novel synthesis of Pd nanoparticles for hydrogenation of biomass-derived platform chemicals showing enhanced catalytic performance

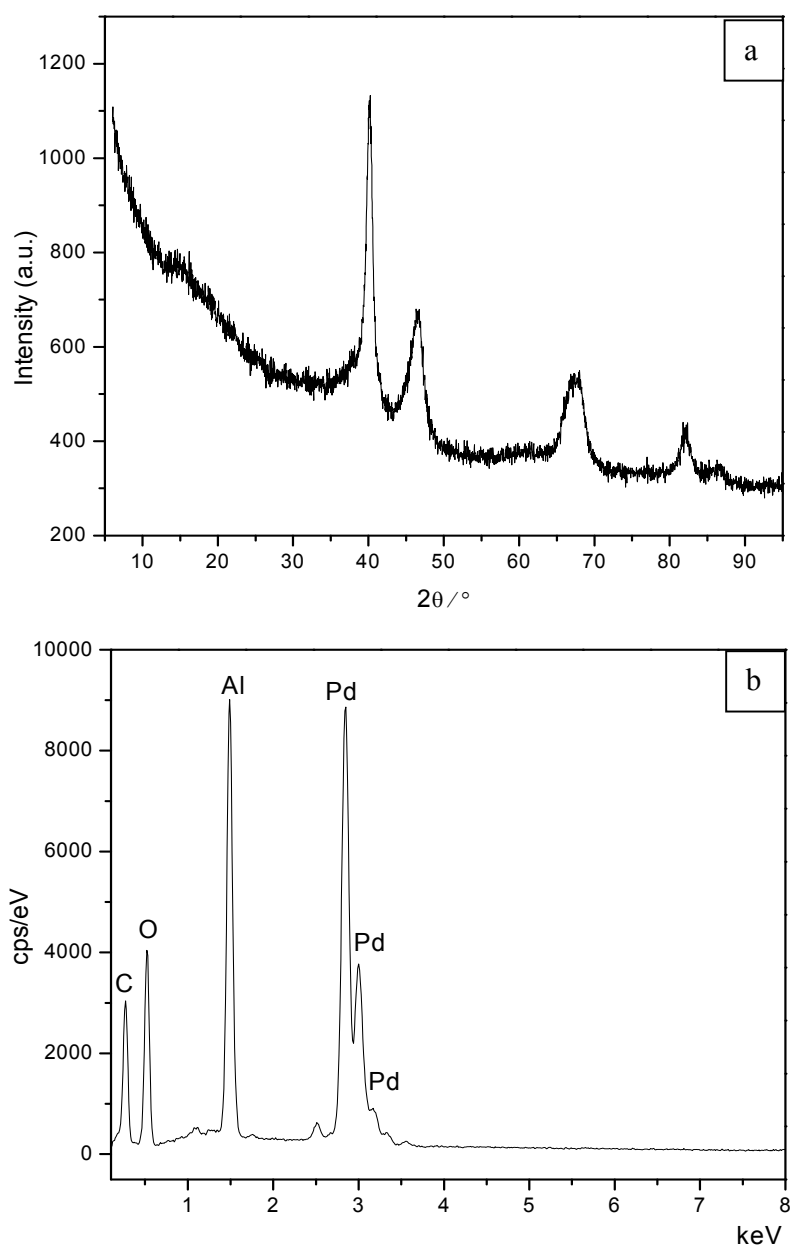
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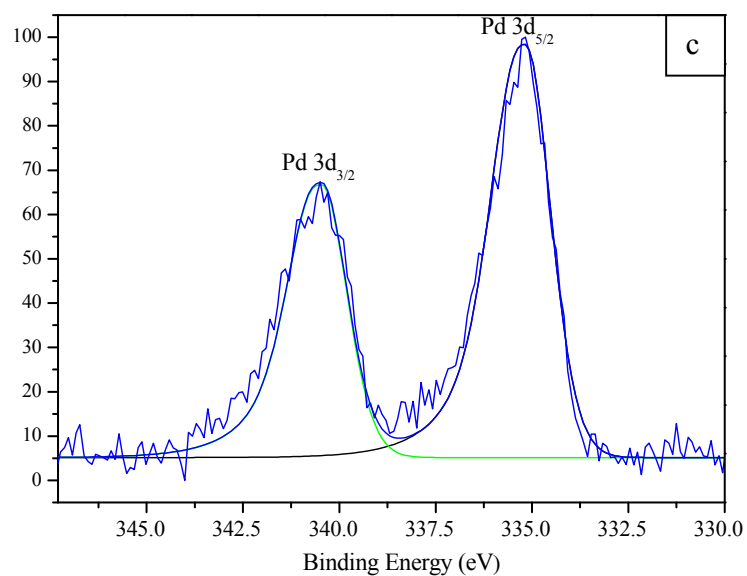


Fig. S1. XRD pattern (a), EDX spectrum (b) and XPS spectrum (c) of the 5 wt% Pd/Al₂O₃ nanoparticles prepared by the conventional impregnation method.

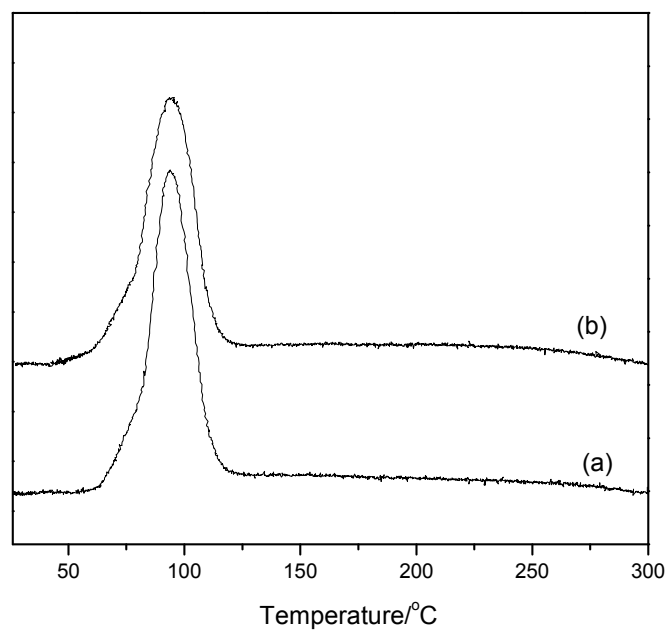


Fig. S2. H₂-TPR profile of 3 wt % Pd/Al₂O₃ (a) prepared by the CO₂-assisted method and 3 wt% Pd/Al₂O₃ (b) prepared by the traditional impregnation and reduction method.