

Electronic Supplementary Information

A novel Fe₃O₄@nSiO₂@NiPd-PVP@mSiO₂ multi-shell core-shell nanocomposite for cinnamic acid hydrogenation in water

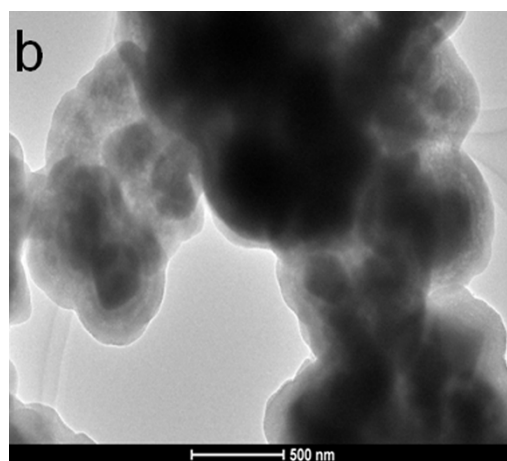
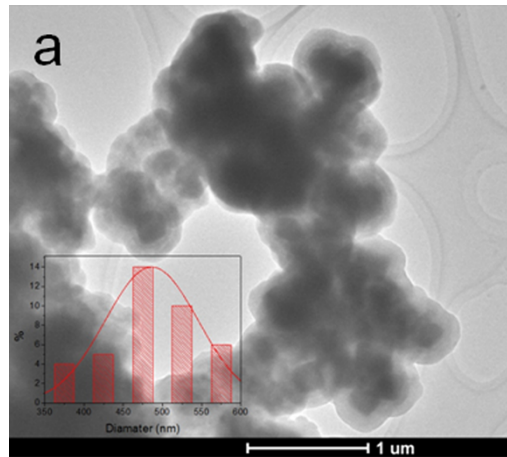
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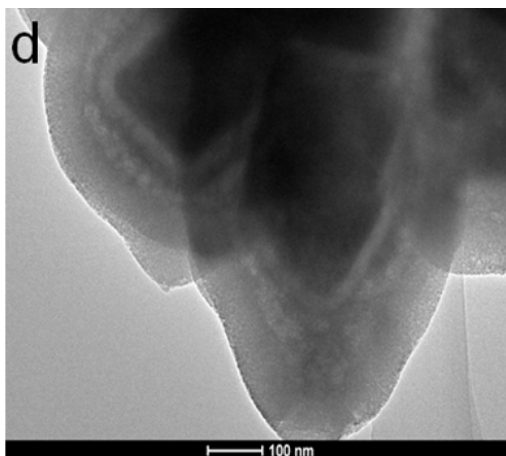
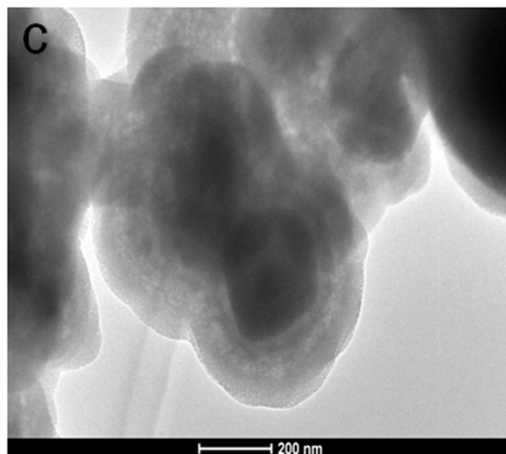
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TEM:





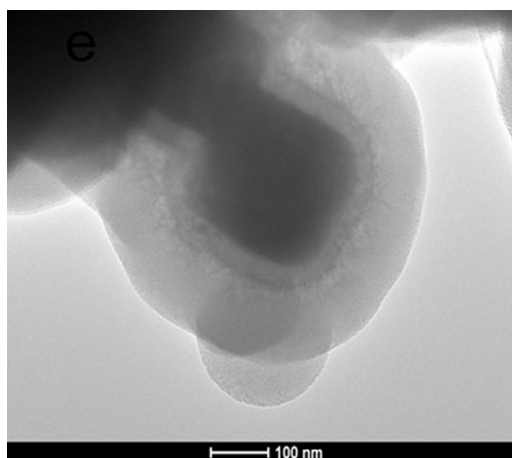


Fig. S1 TEM images of $\text{Fe}_3\text{O}_4@\text{nSiO}_2@\text{NiPd-PVP@mSiO}_2$ with different scale bar.
a) 1000 nm (the inset is the size distribution of $\text{Fe}_3\text{O}_4@\text{nSiO}_2@\text{NiPd-PVP@mSiO}_2$),
b) 500 nm, c) 200 nm, d) 100 nm, and e) 100 nm.

EDS:

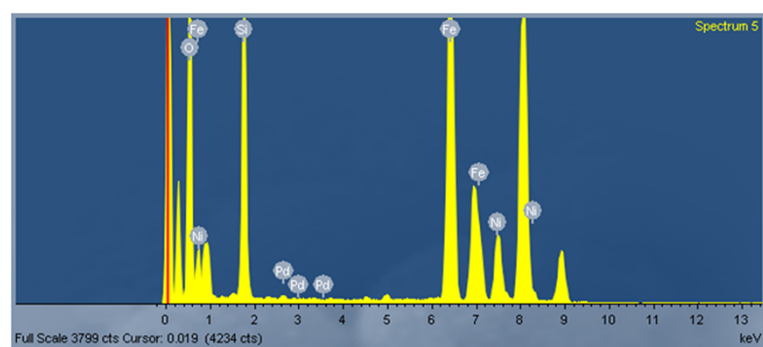


Fig. S2 EDS spectrum of $\text{Fe}_3\text{O}_4@\text{nSiO}_2@\text{NiPd-PVP}@\text{mSiO}_2$.