

Supporting Information for *RSC Advances*.

Electronic Supporting Information

Double channel emission from gold nanoparticles functionalized with thermo-responsive copolymer ligand: preparation, optical properties and control of catalytic activity

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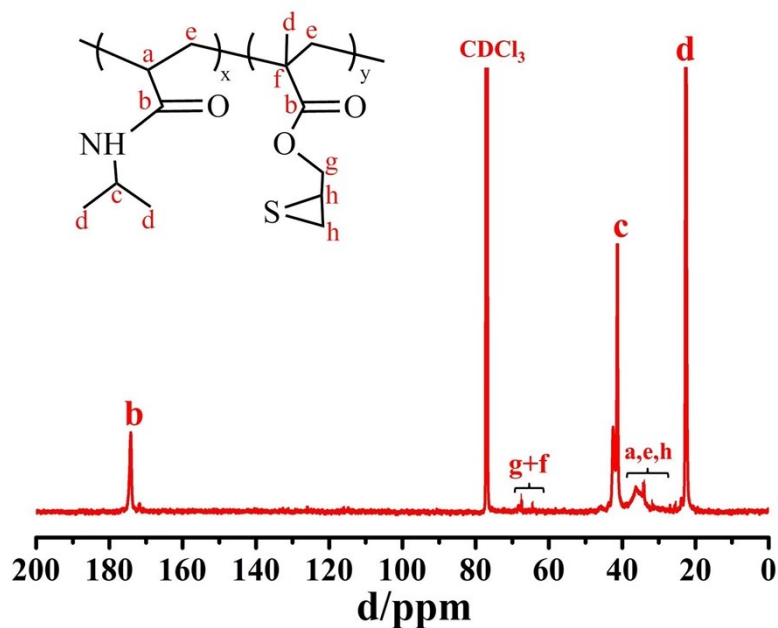


Fig. S1 ¹³C-NMR spectrum of P(NIPAM-co-ETMA) in CDCl₃.

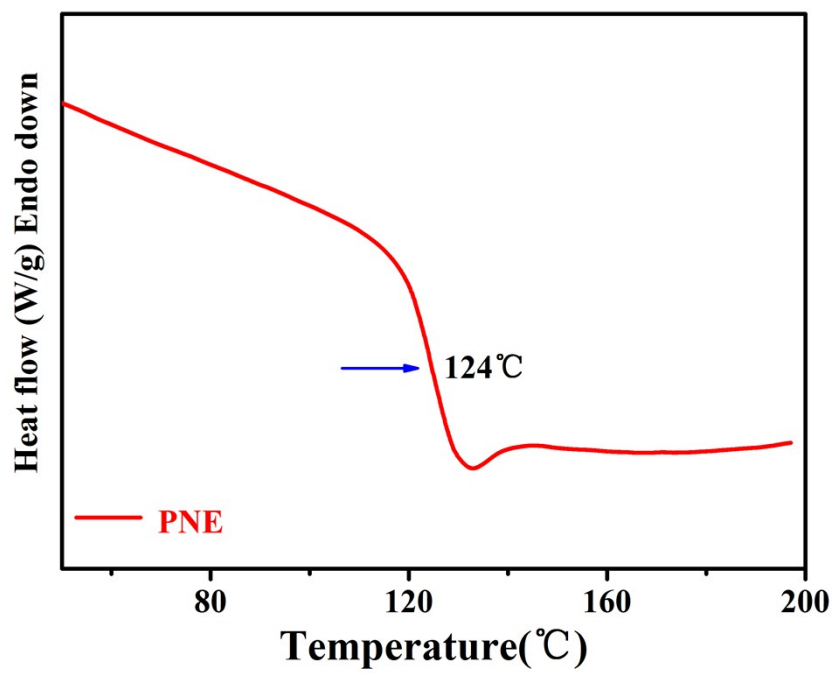


Fig. S2 DSC curve of PNE.

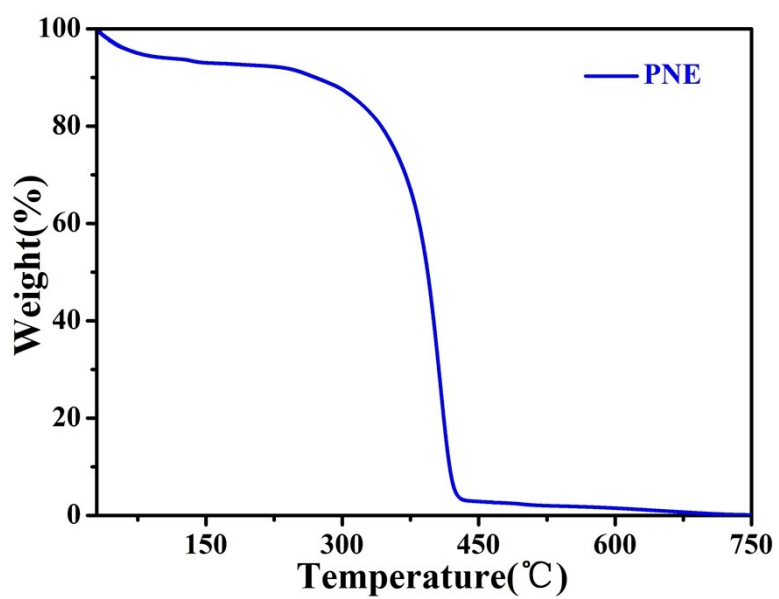


Fig. S3 TGA curve of PNE.

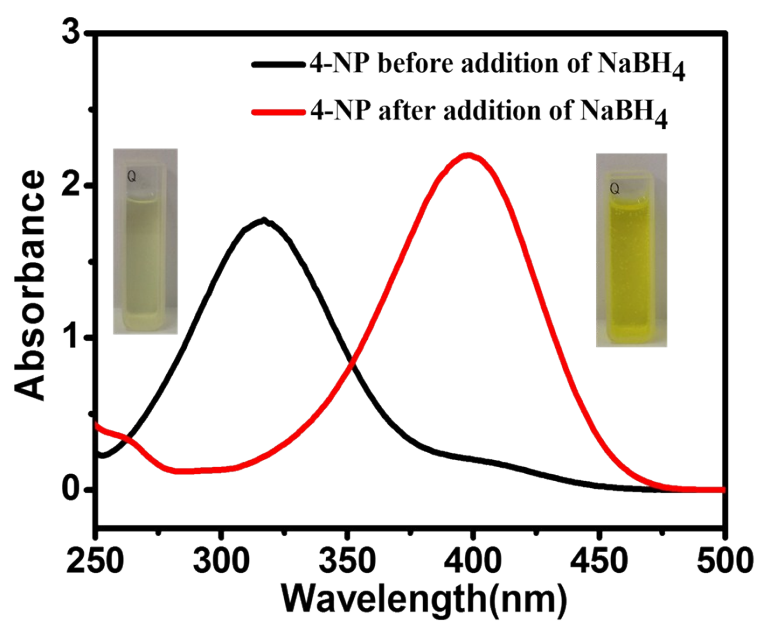


Fig. S4 UV-vis spectra of 4-nitrophenol solution before and after the addition of NaBH₄.

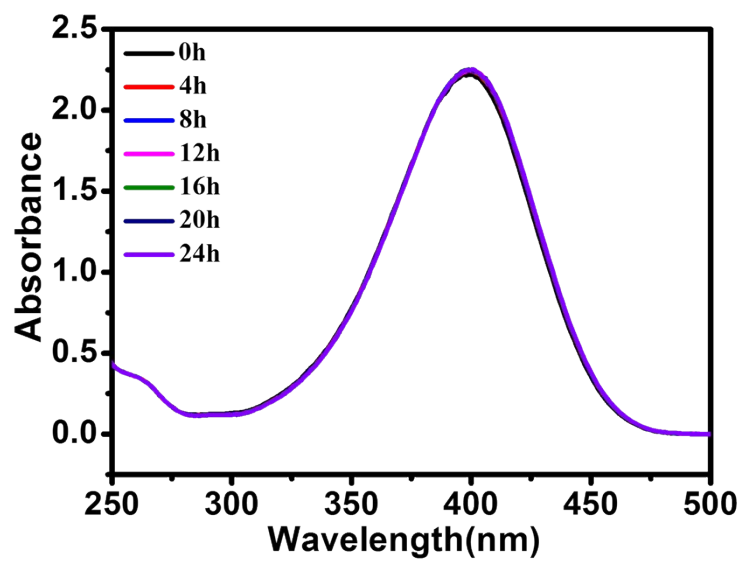


Fig. S5 UV-vis spectra of 4-nitrophenol solution with NaBH_4 without Au NPs @PNE catalyst

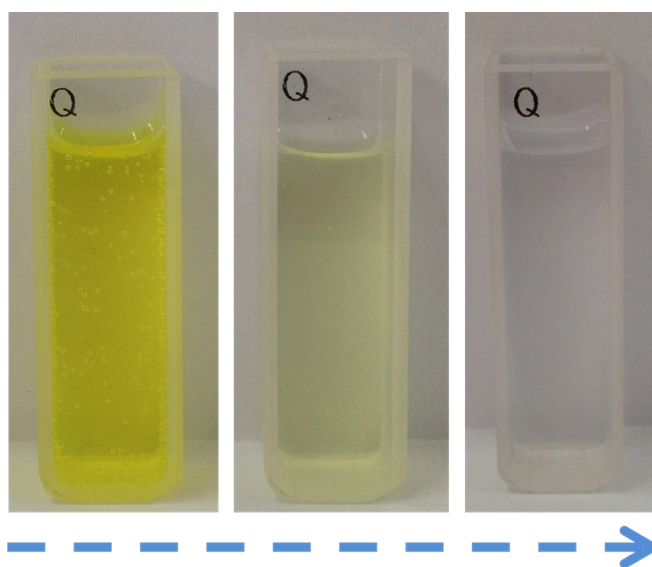


Fig. S6 Color change form yellow to colorless for 4-nitrophenol solution with NaBH_4 using Au NPs @PNE-b2 as catalyst.