Electronic Supplementary Material (ESI) for New Journal of Chemistry.

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Supporting information for

Palladium nanoparticles anchored on polymer vesicles as Pickering interfacial catalyst for hydrolytic oxidation of organosilanes

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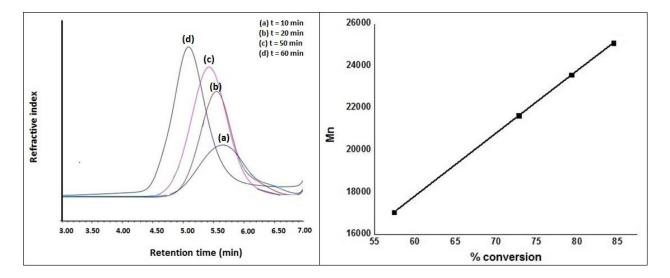


Figure S1. (a) Overlaid GPC traces during ATRP of iBMA as a function of time (b) plot of molecular weight (M_n) vs % conversion of the monomer.

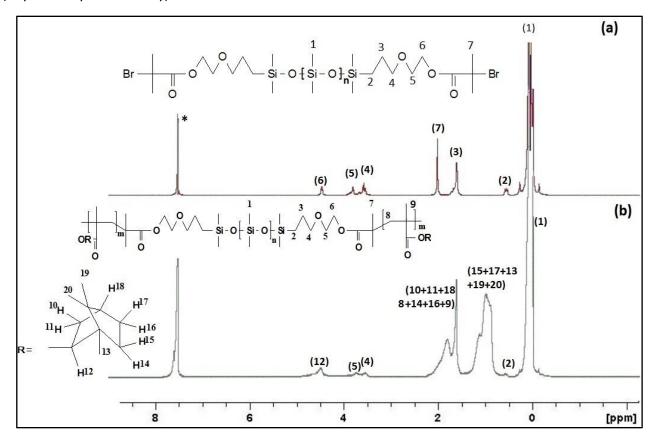


Figure S2. ¹H NMR spectrum of (a) macroinitiator and (b) polymer 1.



Figure S3. PdNP- stabilized Pickering water droplets dispersed in chloroform.

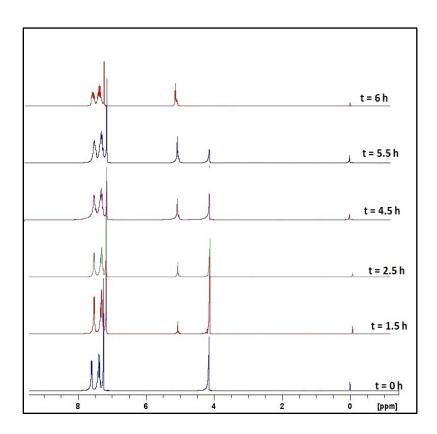


Fig. S4. ¹H NMR spectra at different time intervals during hydrolytic oxidation of phenylsilane.

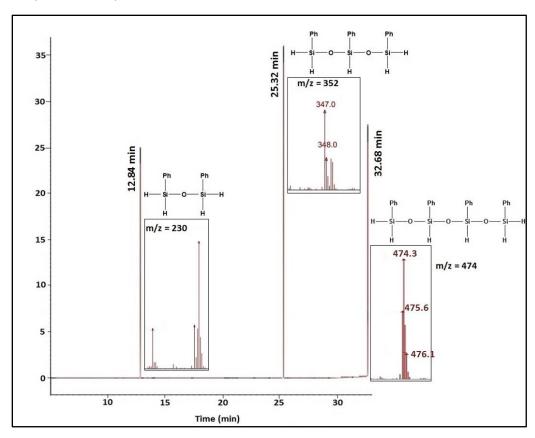


Figure S5. GCMS spectrum of the intermediates formed during hydrolytic oxidation of phenylsilane.

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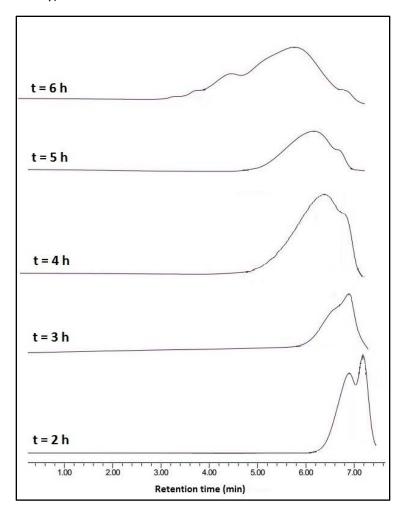


Figure S6. GPC profiles obtained at different stages of hydrolytic oxidation of phenylsilane.

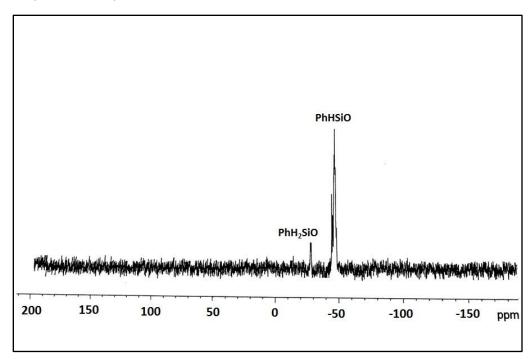


Figure S7. ²⁹Si{¹H} NMR spectrum of poly(hydrophenylsiloxane).

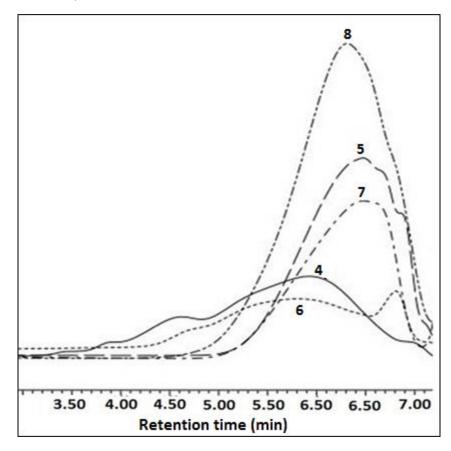


Figure S8. GPC profiles of polymers 4-8

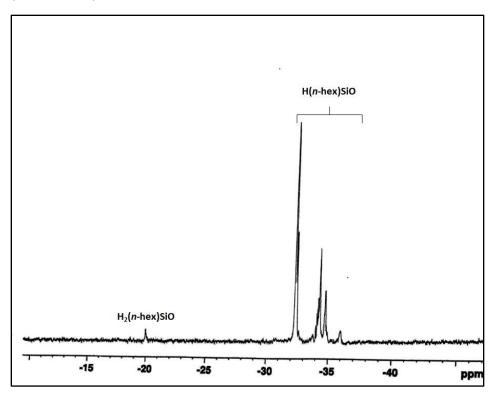


Figure S9. 29 Si $\{^{1}$ H $\}$ NMR spectrum of $H_{2}(n-hex)$ SiO $\{H(n-hex)Si\}_{n}$ OSi $(n-hex)H_{2}$.

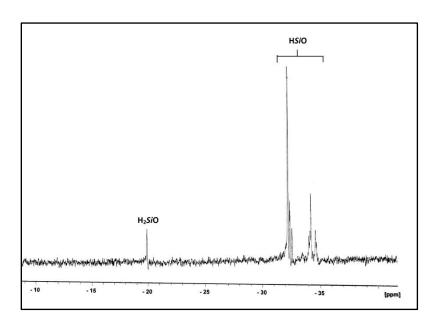


Figure S10. 29 Si $\{^{1}$ H $\}$ NMR spectrum of $H_{2}(n\text{-Oct})$ SiO $\{H(n\text{-Oct})Si\}_{n}$ OSi $(n\text{-Oct})H_{2}$.

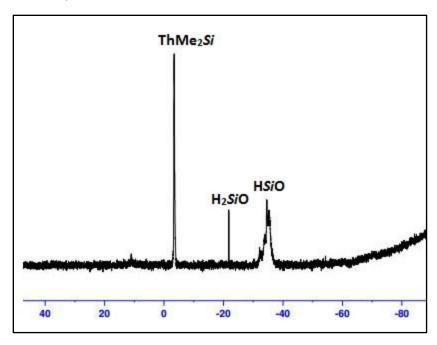


Figure S11. 29 Si $\{^{1}$ H $\}$ NMR spectrum of H_{2} RSiO $\{HRSi\}_{n}$ OSiR H_{2} (R = ThMe $_{2}$ SiC H_{2} C H_{2}).

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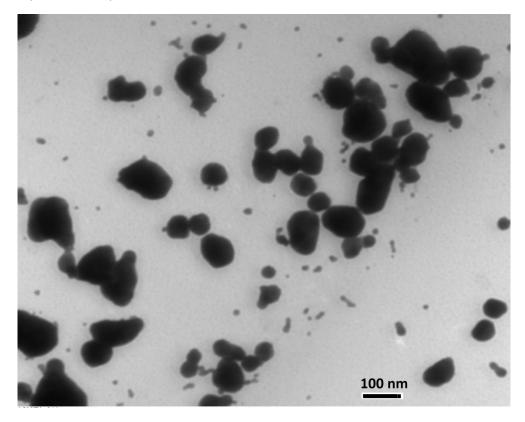


Figure S12. HRTEM image of **Au-2-PIC** after the completion of the reaction.

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