

-Supporting Information-

Confining the polymerization of aniline to generate yolk-shell
polyaniline@SiO₂ nanostructure

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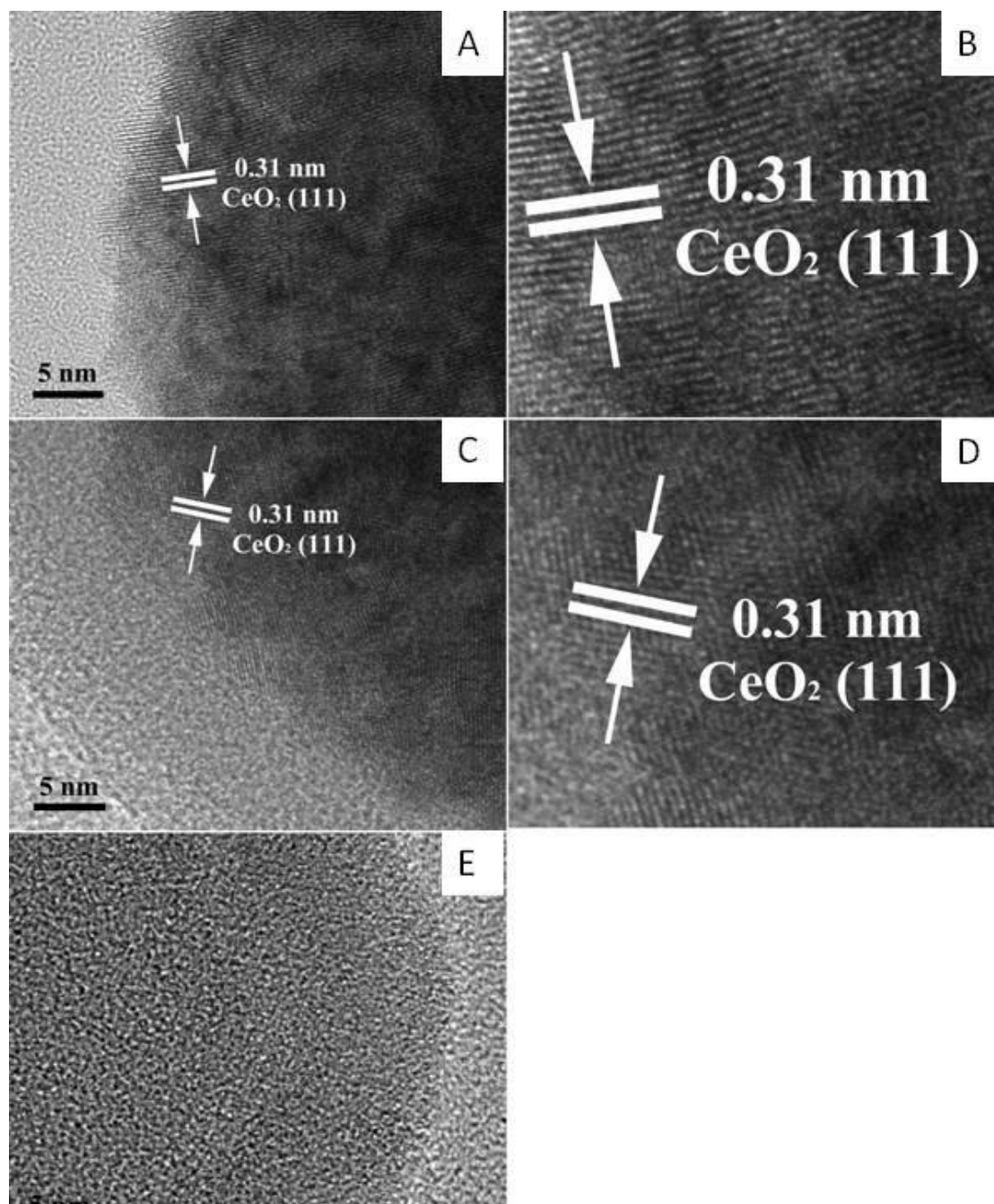


Figure S1. HRTEM images of CeO₂ (A, B), CeO₂@SiO₂ (B, C) and PANI@SiO₂ (E)

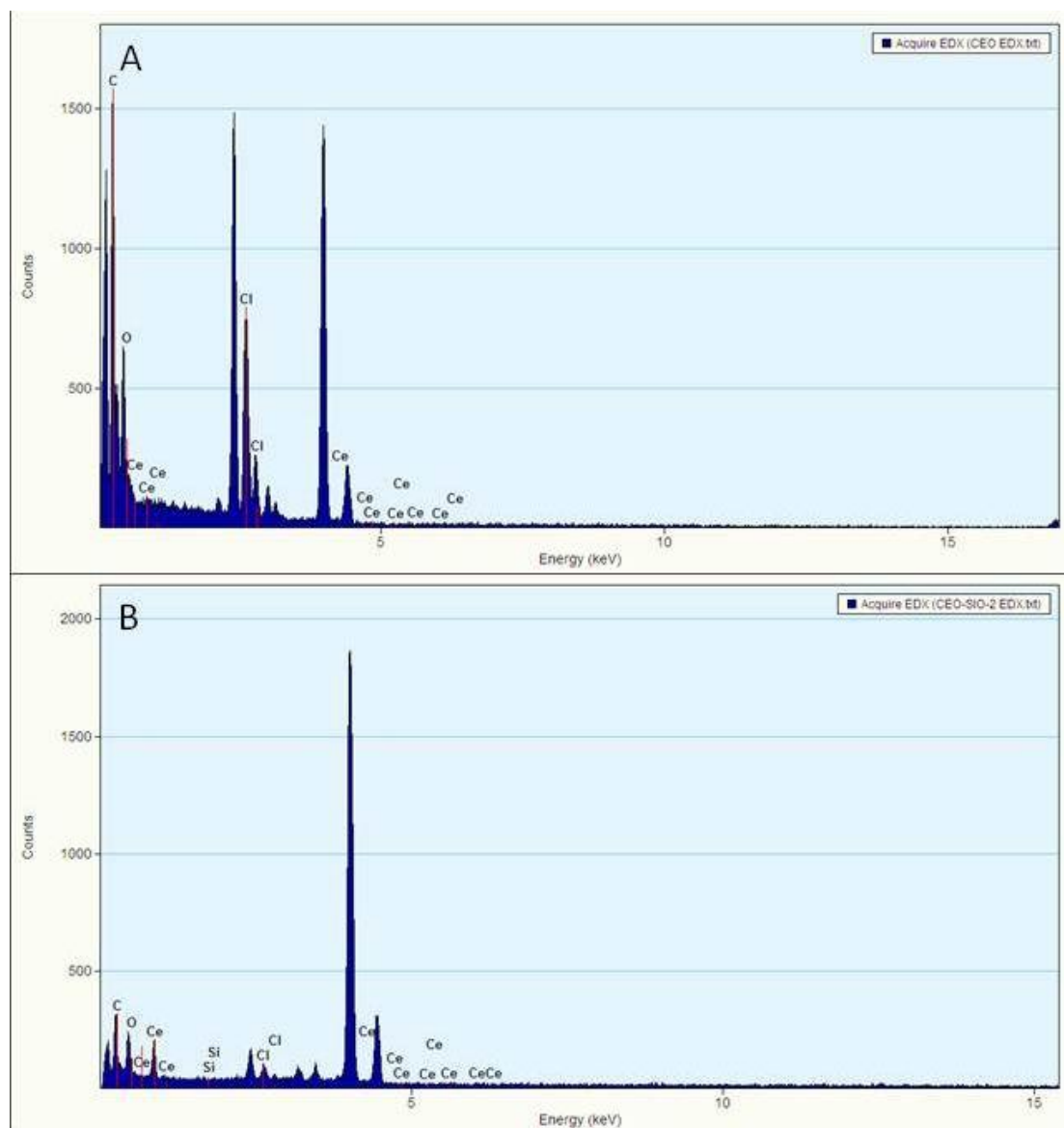


Figure S2. EDS analysis of CeO₂ (A) and CeO₂@SiO₂ NPs (B)

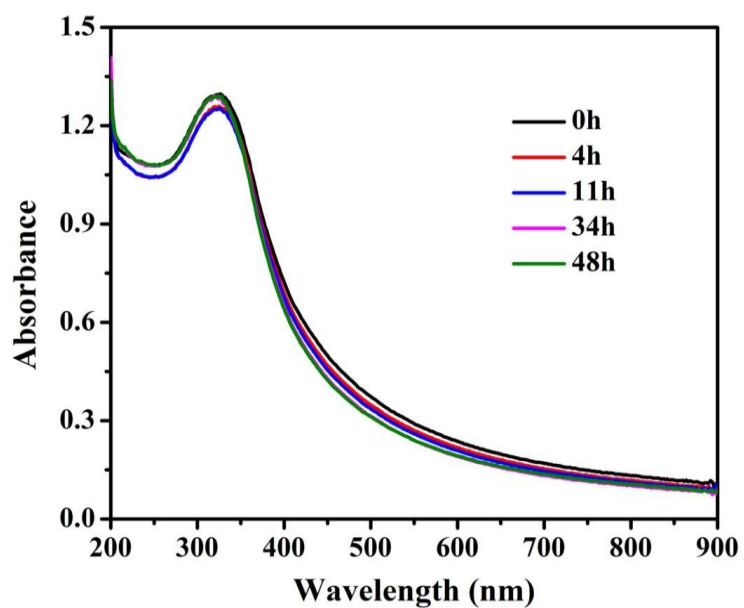


Figure S3. UV-vis spectra of $\text{CeO}_2@\text{SiO}_2$ NPs at different reaction time in acidic solution without aniline.

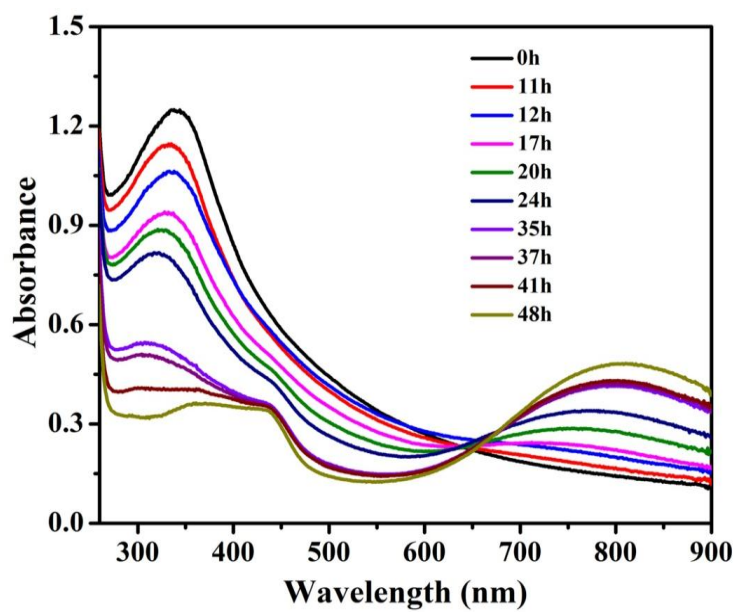


Figure S4. UV-vis spectra of $\text{CeO}_2@\text{SiO}_2$ NPs at different reaction time in acidic solution with aniline.

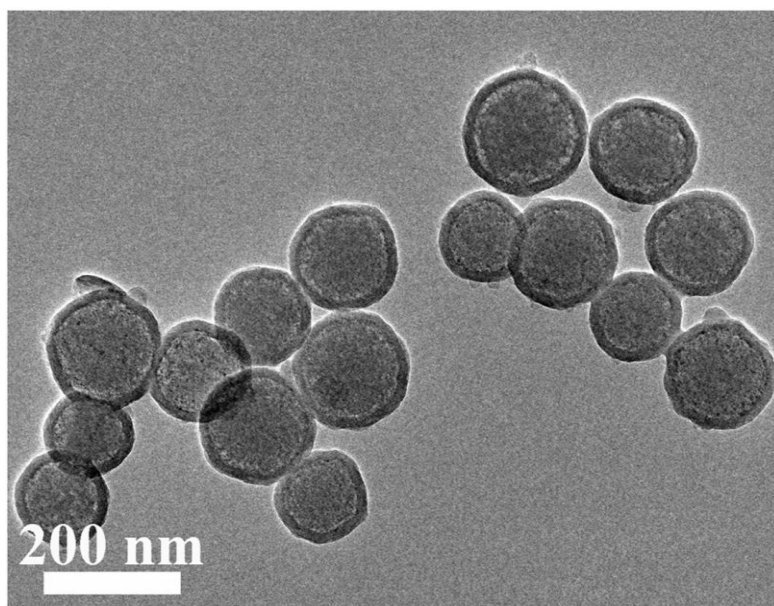


Figure S5. TEM image of PPy@SiO₂ obtained at room temperature.

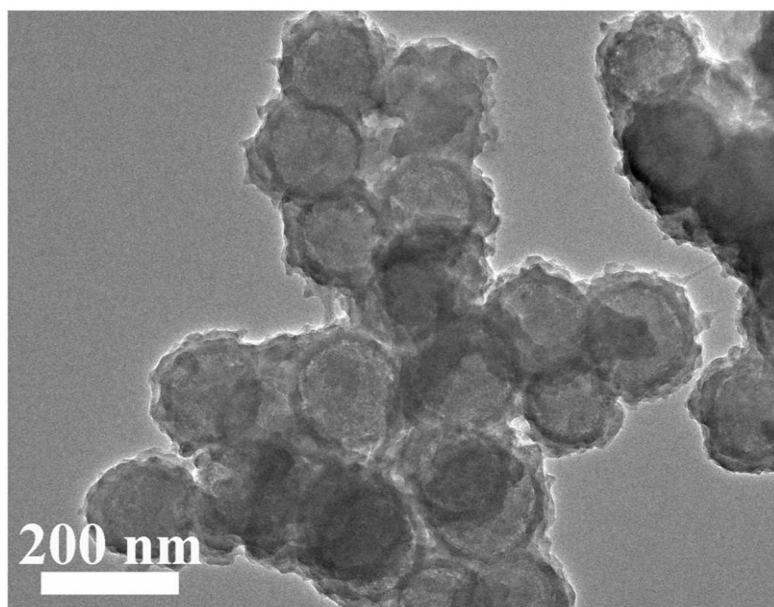


Figure S6. TEM image of PPy@SiO₂ obtained at 323K.