

# Supplementary Materials: Hollow Palladium Nanoparticles Facilitated Biodegradation of an Azo Dye by Electrically Active Biofilms

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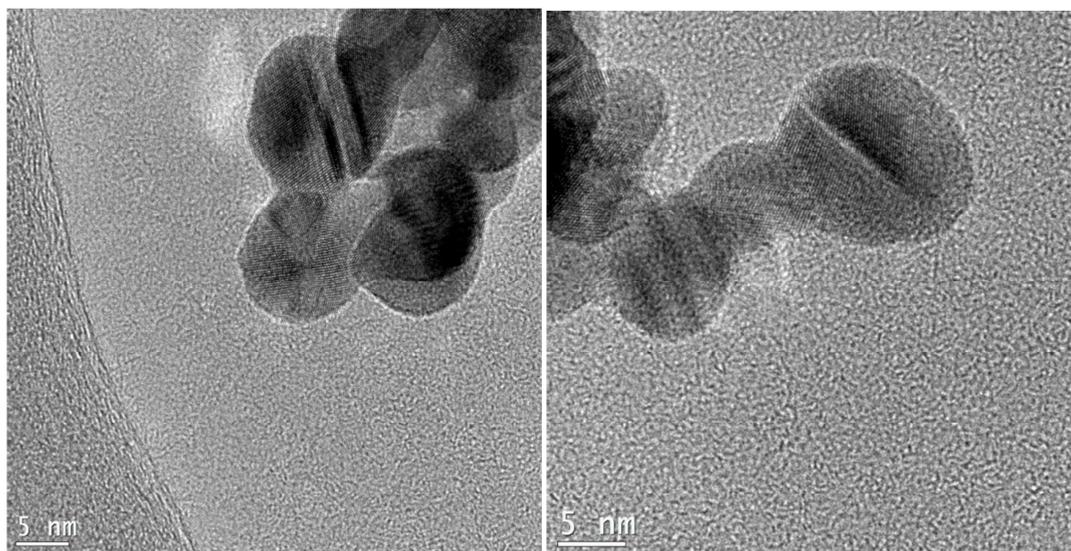


Figure S1. High resolution TEM images of solid Pd nanoparticles.

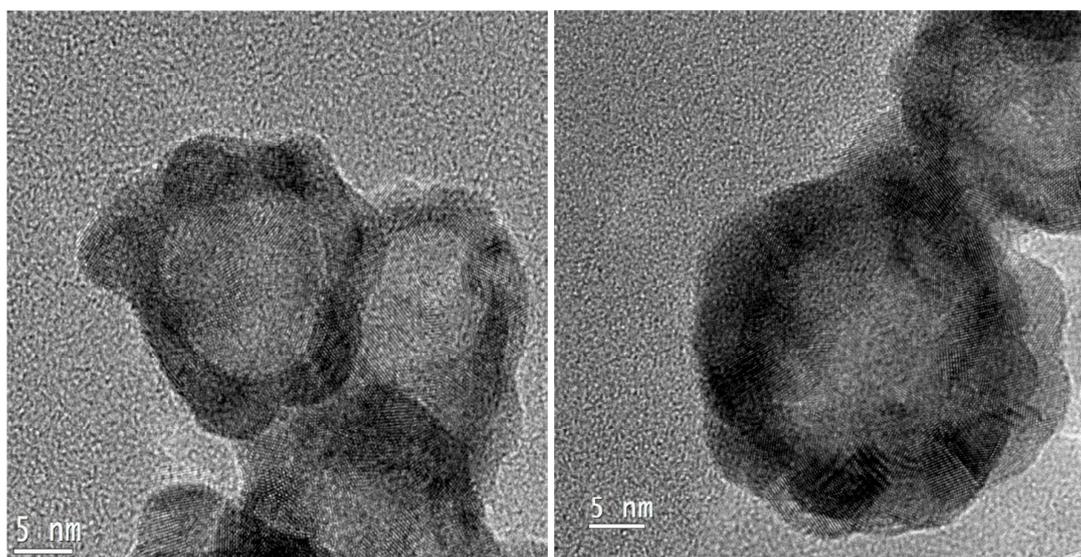
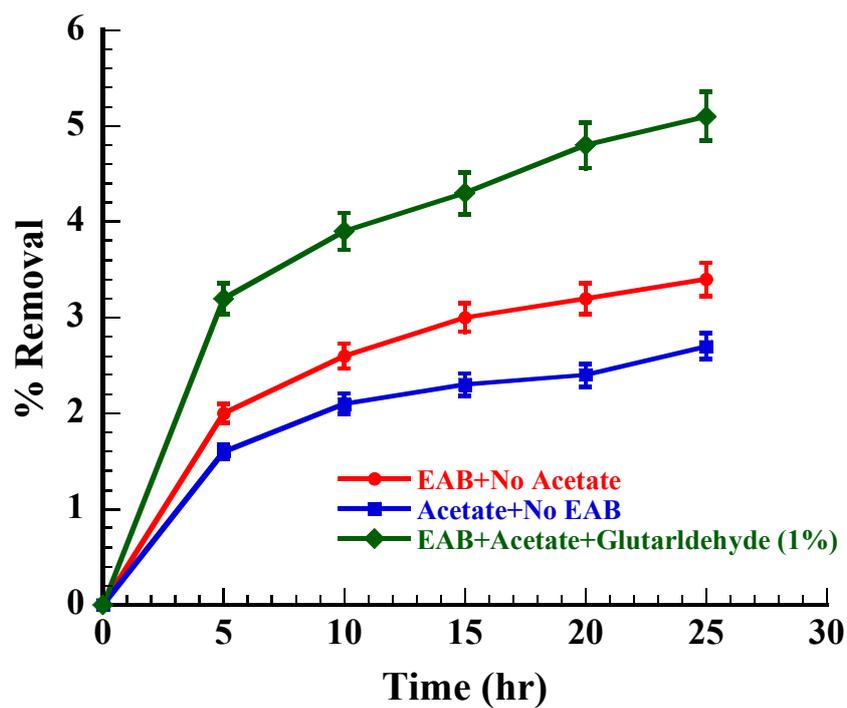
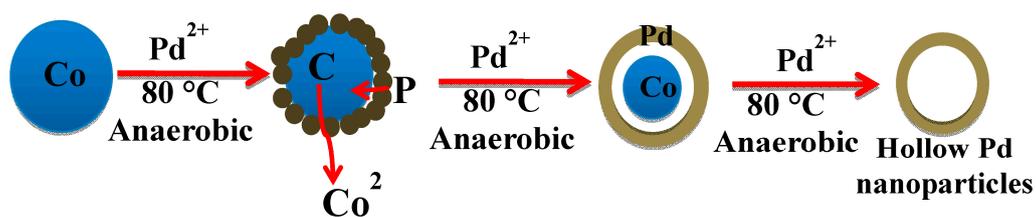


Figure S2. High resolution TEM images of hollow Pd nanoparticles.



**Figure S3.** Plot of % removal of MO dye in the solution with time at different conditions (control experiments).



**Scheme S1.** Schematic of Pd hollow nanoparticles formation through Kirkendall method using Co as sacrificial template.