Title:	Tuning the Shape and Morphology of Palladium Nanoparticles and their Application as Catalyst
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Abstract:	Palladium nanoparticles have attracted enormous attention due to their unique physical and chemical properties. The properties of the nanoparticles are largely dependent upon their size, shape and morphology. As expected, Pd nanoparticles with a complex structure, tunable size and morphology have been a focus of attention because such control is crucial for the determination of many structure-property relationships. In this work, our goal is to prepare Pd nanoparticles of different shapes and morphologies, characterization of those nanoparticles, understanding the shape conversion mechanism and finally study their structure property relationship. We have explored different capping agents as well as reducing agents to achieve tunability of the shape and morphology. Furthermore, we have observed the catalytic property of Pd nanoparticles in Suzuki Miyaura coupling reaction.
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