

Synthesis of SiO₂/Ag Janus nanoparticles and their catalytic applications

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In this study, the SiO₂ nanoparticles and silver nanoparticles were synthesized respectively, then we were synthesized janus nanoparticles through those particles. Silica nanoparticles have been prepared through Tetraethyl orthosilicate (TEOS), NH₃, IPA and H₂O, and silver nanoparticles were prepared via the Polyethyleneimine(PEI) and Ag precursor. The nanoparticles, the large surface area in comparison to the weight, much research is done in the field of catalysts. So, We are trying to apply the synthesized SiO₂ / Ag Janus nanoparticles in the field of phase transfer catalysts and other catalysts.