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In situ synthesized gold nanoparticles in hydrogels for catalytic reduction of nitroaromatic compounds

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ABSTRACT

Developing hydrogel systems featured by catalytic active is of importance to construct highly effective platforms for removing environmental pollutants/hazardous substances or for bio-/chemosensing. Reported herein are our recent finding that Au nanoparticles could be *in situ* prepared in chitosan-Au^{III} hydrogel system *via* photoreduction, and the as-prepared Au nanoparticles could be employed for the catalytic reduction of a series of nitroaromatic

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