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Author: Xiao-Qiong Wu Xing-Wen Wu Qing Huang
Jiang-Shan Shen Hong-Wu Zhang



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

Xiao-Qiong Wu,^a Xing-Wen Wu,^a Qing Huang,^a Jiang-Shan Shen^{*a,b} and Hong-Wu Zhang^{*a}

^aInstitute of Urban Environment, Chinese Academy of Sciences, Xiamen, 361021, China. Fax: (+86)592-619-0773; Tel: (+86)592-619-0773; E-mail: jsshens@iue.ac.cn; hwzhang@iue.ac.cn.

^bNingbo Urban Environment Observation and Research Station, Chinese Academy of Sciences, Ningbo, 315800, China.

Corresponding Author

Fax: (+86) 592-619-0773; Tel: (+86) 592-619-0773; E-mail: jsshens@iue.ac.cn; hwzhang@iue.ac.cn.

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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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