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Title	Removal of phenol in aqueous solution by adsorption onto green synthesized coinage nanoparticles beads
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## Figures

Fig. 1 Alginate stabilized (a) AgNPs and (b) AuNPs beads

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Fig. 3 UV-visible spectrum of the synthesized AgNPs and AuNPs. Varian Carry 50 UV-visible spectrophotometer

Fig. 4 FTIR spectra of (a) alginate stabilized AgNPs beads (b) alginate stabilized AuNPs beads

Fig. 5 FTIR spectra of (a) phenol loaded alginate stabilized AgNPs beads (b) phenol loaded alginate stabilized AuNPs beads

**Fig. 6** Effect of initial concentration on the removal of phenol by alginate stabilized AgNPs and AuNPs beads at room temperature (n=5)

**Fig. 7** Effect of contact time on the removal of phenol by alginate stabilized AgNPs and AuNPs beads at room temperature (n=5)

**Fig. 8** Effect of pH on the removal of phenol by alginate stabilized AgNPs and AuNPs beads at room temperature (n=5)

Fig. 9 Effect of adsorbent dose on the removal of phenol by alginate stabilized AgNPs and AuNPs beads at room temperature (n=5)

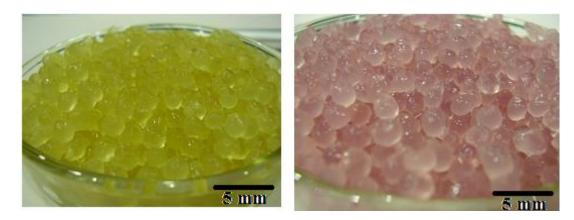
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Fig. 11 Langmuir isotherm plots for adsorption of phenol on alginate stabilized AgNPs and AuNPs beads at room temperature

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Fig. 13 Pseudo-second-order kinetic plots for the removal of phenol by alginate stabilized AgNPs and AuNPs beads

Fig. 14 Percentage removal of phenol by alginate stabilized AgNPs and AuNPs beads after desorption (n=5)



**Fig. 1(a)** 

**Fig. 1(b)** 

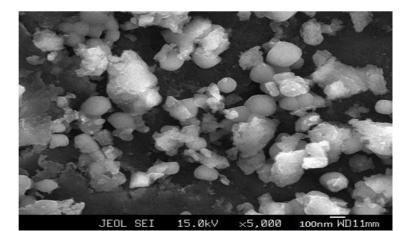


Fig.2(a)

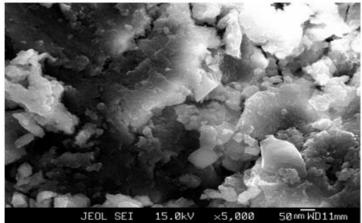
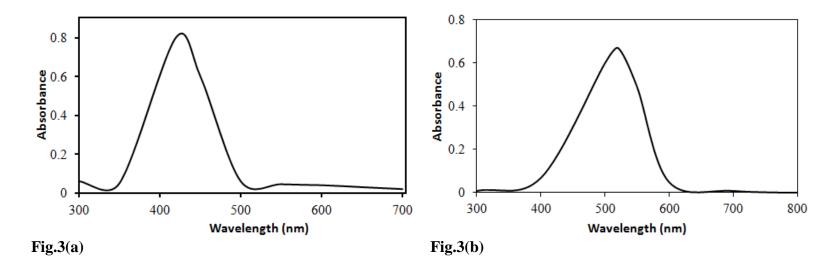
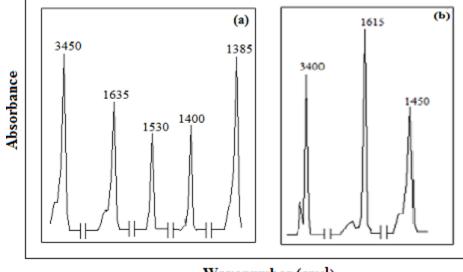
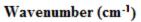


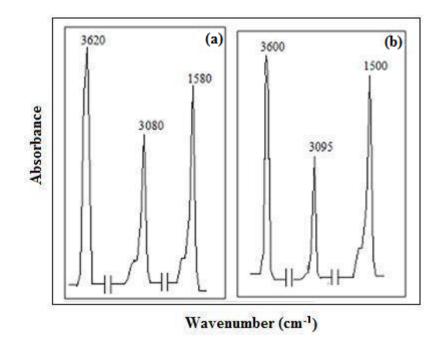
Fig.2(b)













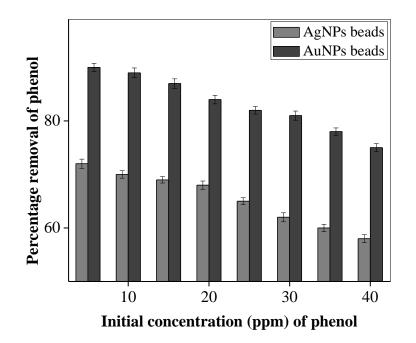


Fig.6

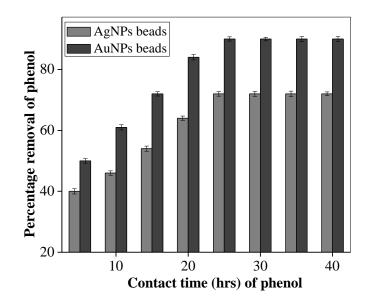
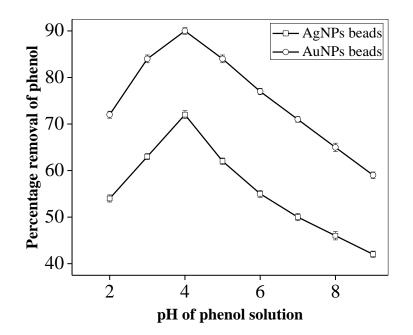
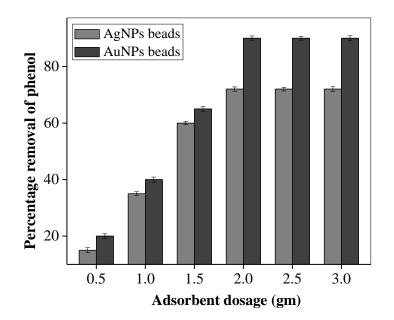


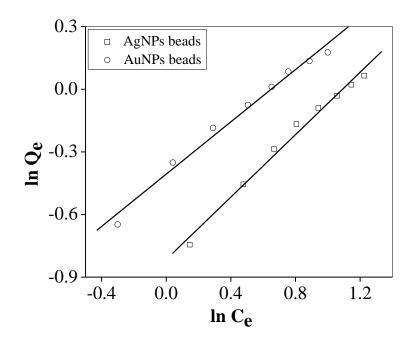
Fig.7













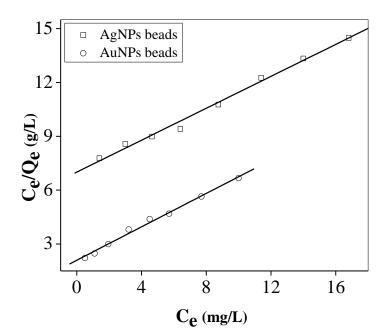


Fig.11

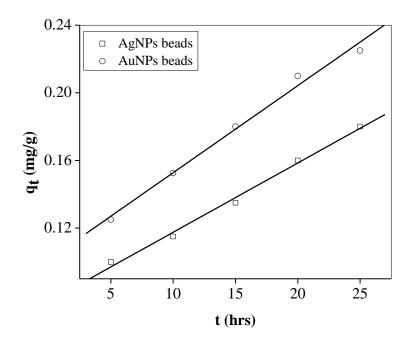
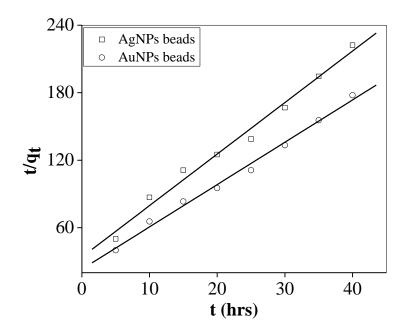


Fig.12





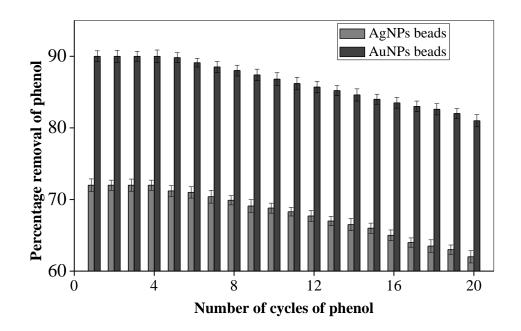


Fig.14