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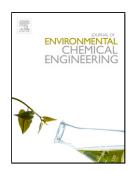
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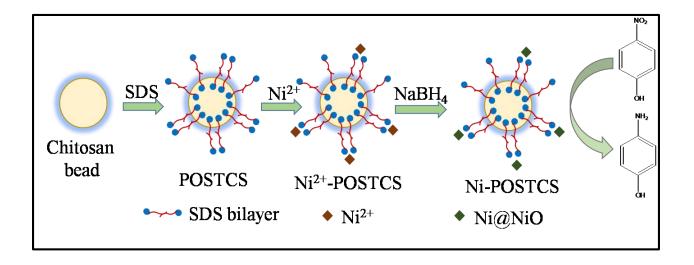
### ACCEPTED MANUSCRIPT

# Surfactant modification of chitosan hydrogel beads for Ni@NiO core-shell nanoparticles formation and its catalysis to 4-nitrophenol reduction

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#### **GRAPHICAL ABSTRACT**



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