

Recyclable Au/SiO₂-shell/Fe₃O₄-core catalyst for the reduction of nitro aromatic compounds in aqueous solution

Kushanava Bhaduri^{§1}, Bidya Dhar Das^{§1}, Rawesh Kumar^{2g}, Sujan Mondal³, Sauvik Chatterjee³, Sneha Shah¹, Juan J. Bravo-Suárez^{4*} and Biswajit Chowdhury^{1*}

1. Department of Applied Chemistry, Indian Institute of Technology (ISM), Dhanbad
Dhanbad-826004, Jharkhand, India
2. Department of Chemistry, Sankalchand Patel University, Visnagar, Gujrat
3. Department of Materials Science, Indian Association for the Cultivation of Science,
Kolkata-700032, India
4. Chemical and Petroleum Engineering Department & Center for Environmentally
Beneficial Catalysis, The University of Kansas, Lawrence, KS 66045, USA

§Author 1 and 2 have equal contribution in the work

*1 Corresponding Author: biswajit72@iitism.ac.in; Phone + 91-326-223-5663; (+91)-326-2296563

*2 Corresponding Author: jjbravo@ku.edu ; Phone 785-864-8297; 785-864-1756

g Formerly at NIT Jamshedpur, Jharkhand

Supporting Information

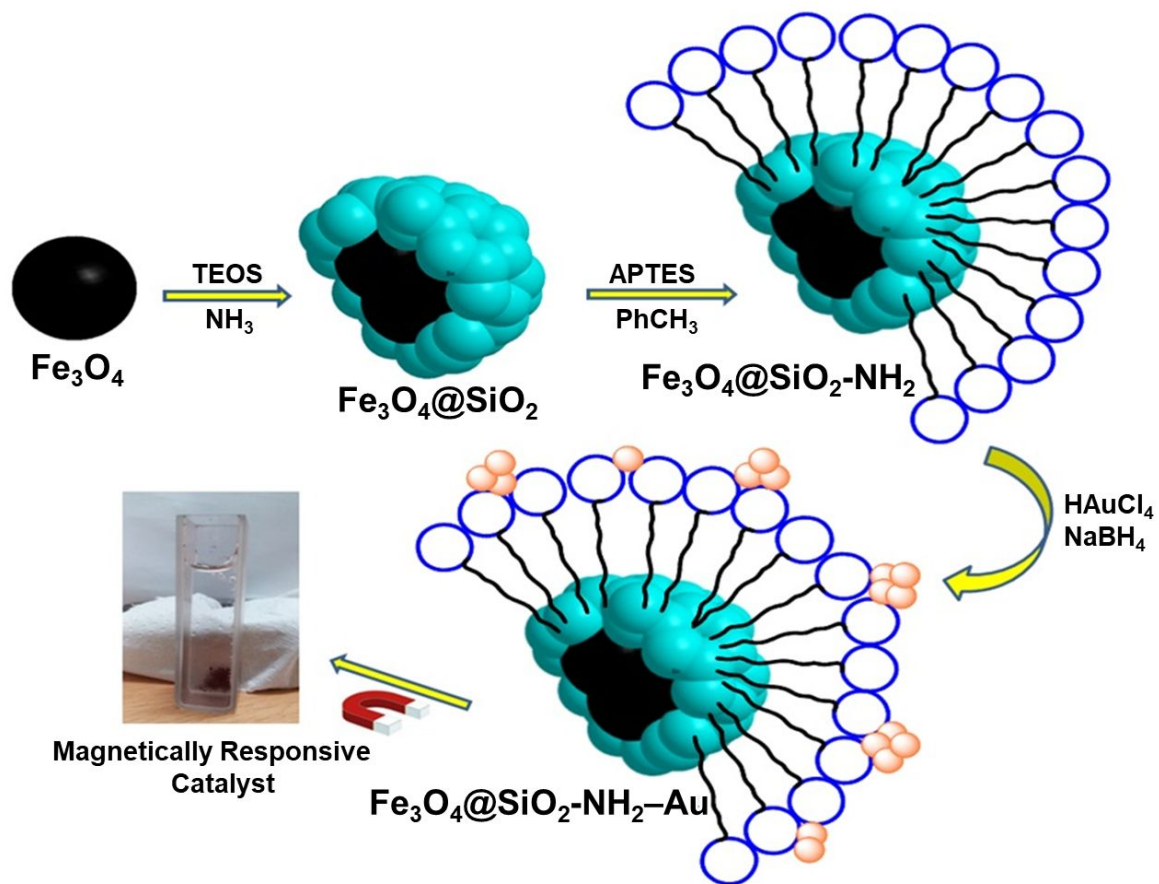


Figure S1. A schematic illustration of the formation of the magnetically recyclable $\text{Fe}_3\text{O}_4@\text{SiO}_2\text{-NH}_2\text{-Au}$ microsphere.