

Supporting Information

Conversion of scrap iron into ultrafine α -Fe₂O₃ nanorods for efficient visible light photodegradation of ciprofloxacin

Arushi Arora^a, Sunaina^a, Ritika Wadhwa^a, Menaka Jha^{a*}

^a*Institute of Nano Science & Technology, Knowledge City, Sector 81, Mohali, Punjab–140306,
India*

*** Corresponding author**

Dr. Menaka Jha

Institute of Nano Science and Technology, Knowledge City, Sector 81, Mohali

Tel: 0172 – 2210075

Email: menaka100jha@gmail.com

Table

Table S1. Concentration of various metals as detected by ICP-MS analysis of digested scrap wire

Element	Concentration (ppb)	
	200	500
Iron (Fe-56)	187	492
Aluminium (Al-27)	0.61	0.68
Manganese (Mn-55)	0.30	0.31
Nickel (Ni-60)	0.10	0.25
Zinc (Zn-66)	<0.00	<0.00
Copper (Cu-63)	<0.00	<0.00

Figures

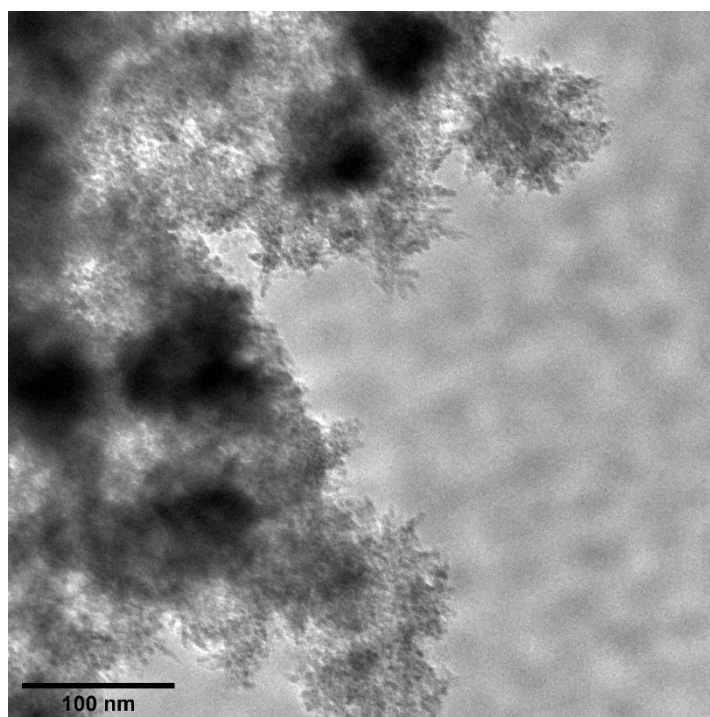


Figure S1. TEM micrograph of S2

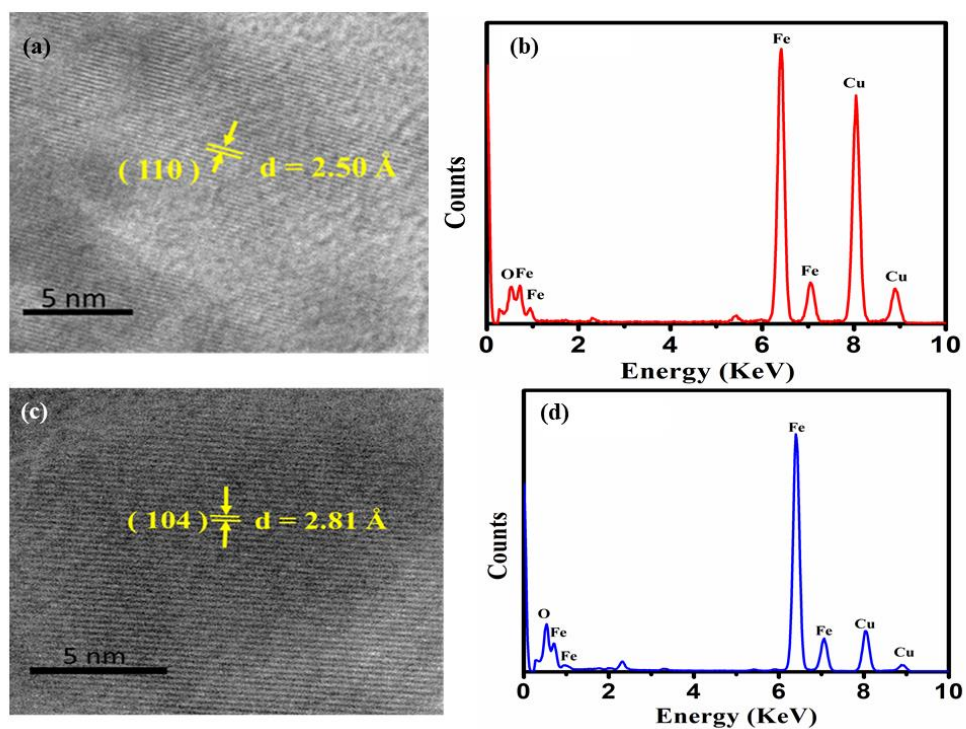


Figure S2. (a) HRTEM of S3 (b) EDAX of S3 (c) HRTEM OF S4 and (d) EDAX of S4

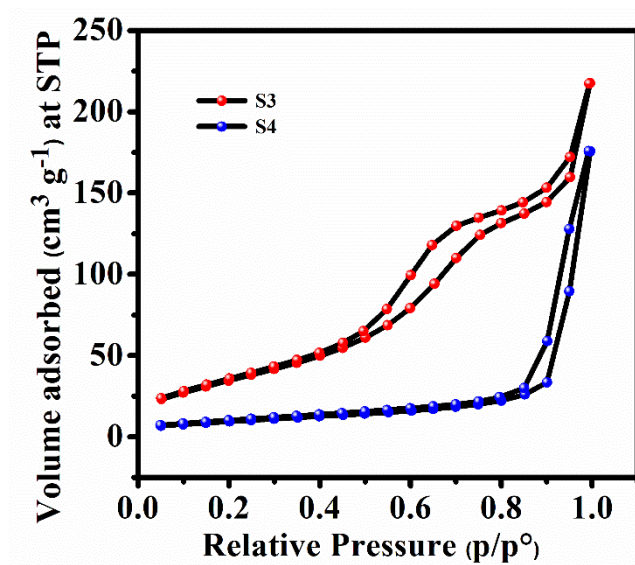


Figure S3. N_2 adsorption-desorption Isotherm of S3 and S4

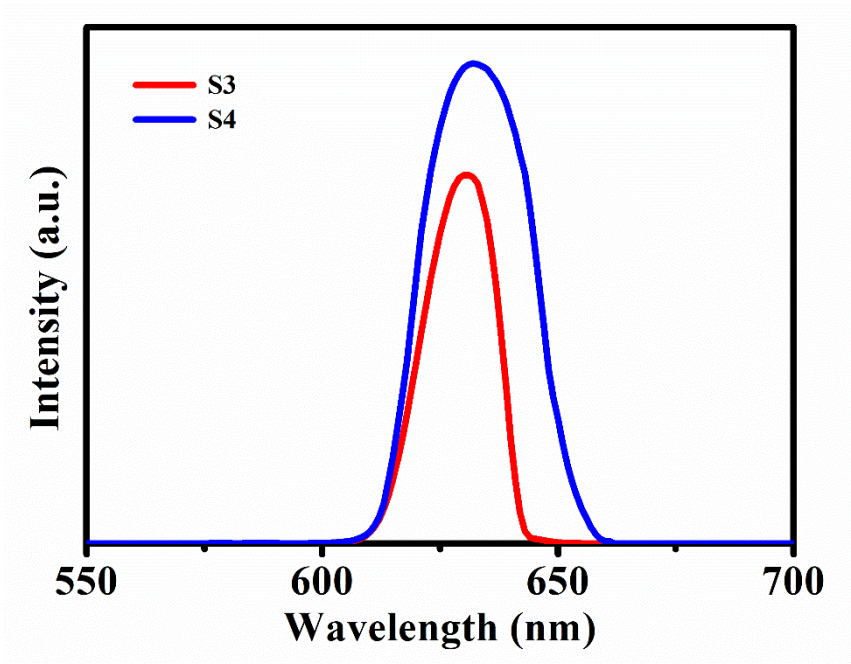


Figure S4. Photoluminescence spectra (PL) of S3