

Electronic Supplementary Information

Magnetic–fluorescent nanocomposites as reusable fluorescence probes for sensitive detection of hydrogen peroxide and glucose

Hao Zheng,^a Rongxin Su,^{*a,b} Zhao Gao,^a Wei Qi,^{a,b} Renliang Huang,^c Libing Wang,^a and Zhimin He^a

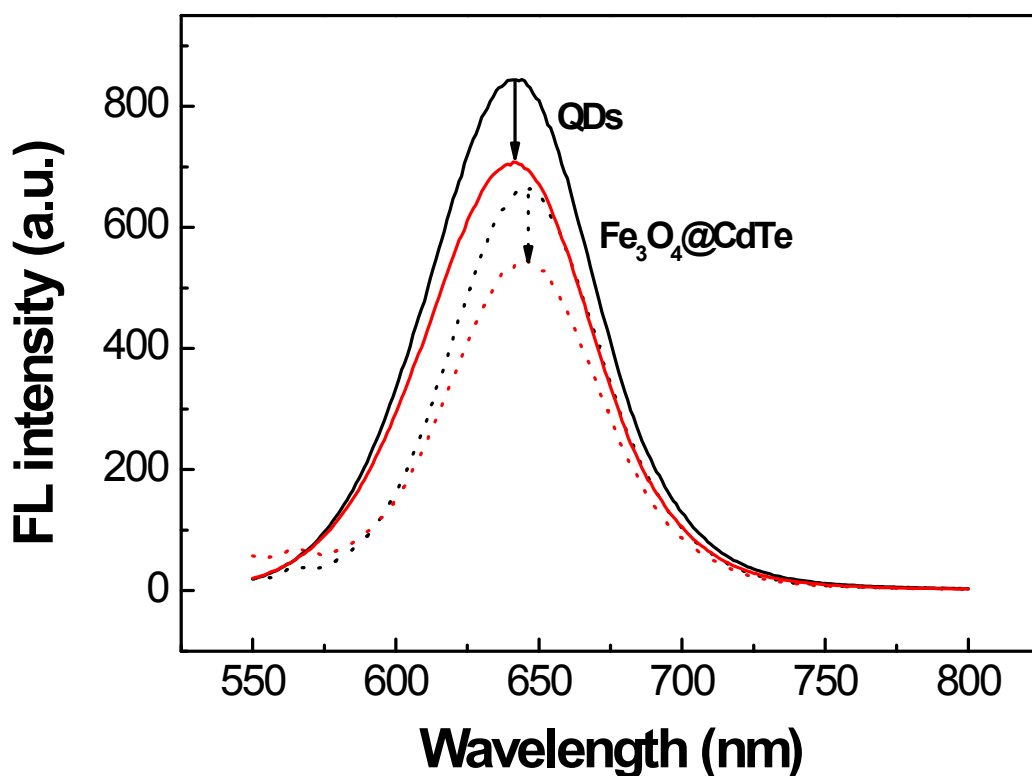


Figure S1 Fluorescence quenching of Fe_3O_4 nanocomposites and CdTe QDs by 3mM glucose

Figure S1 reveals that the same degrees of fluorescence quenching of Fe_3O_4 nanocomposites and CdTe QDs by the glucose with the concentration of 3mM. Compared with individual component (CdTe QDs), Fe_3O_4 nanocomposites maintained the excellent fluorescence property. Therefore, Fe_3O_4 nanocomposites can be also used as a fluorescence probe to detect glucose.

^a State Key Laboratory of Chemical Engineering, Tianjin Key Laboratory of Membrane Science and Desalination Technology, School of Chemical Engineering and Technology, Tianjin University, Tianjin 300072, P. R. China. Fax: (86)022-27407599; Tel: (86)022-27407599; E-mail: surx@tju.edu.cn

^b Collaborative Innovation Center of Chemical Science and Engineering (Tianjin), Tianjin 300072, China

^c School of Environmental Science and Engineering, Tianjin University, Tianjin 300072, PR China