Electronic Supplementary Material (ESI) for Journal of Materials Chemistry A

Supporting Information

Efficient sorbents based on magnetite coated with siliceous hybrid shells for removal of mercury ions

Daniela S. Tavares[a], Ana L. Daniel-da-Silva[a], Cláudia B. Lopes[a], Nuno J. O. Silva[b], Vítor S. Amaral[b], João Rocha[a], Eduarda Pereira[a], Tito Trindade[a]*

[a]Department of Chemistry, CICECO and CESAM, Aveiro Institute of Nanotechnology, University of Aveiro, 3810-193 Aveiro

[b]Department of Physics, CICECO, Aveiro Institute of Nanotechnology, University of Aveiro, 3810-193 Aveiro. Corresponding Author: * E-mail: tito@ua.pt; Fax: +351 234 370 084; Tel: +351 234 370 726.

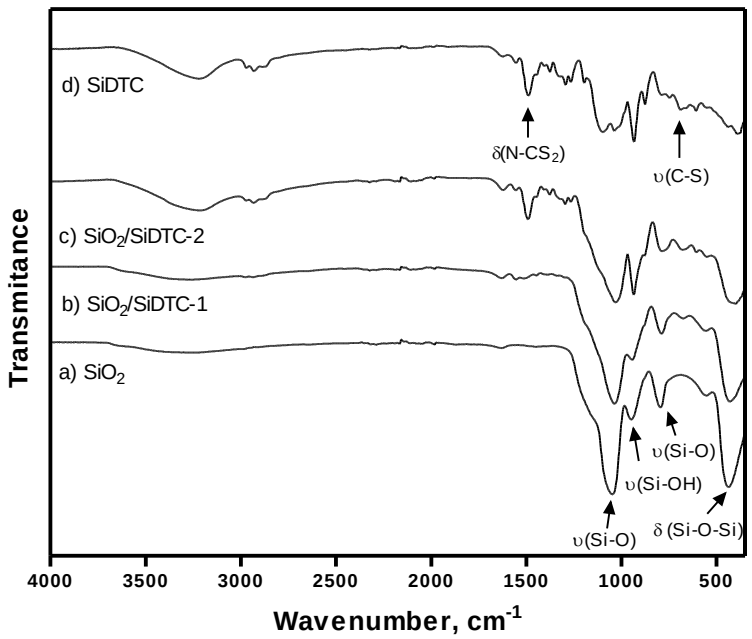

Fig. 1S ATR-FTIR spectra of the samples (a) SiO_2; (b) SiO_2/SiDTC-1; (c) SiO_2/SiDTC-2 and d) SiDTC.

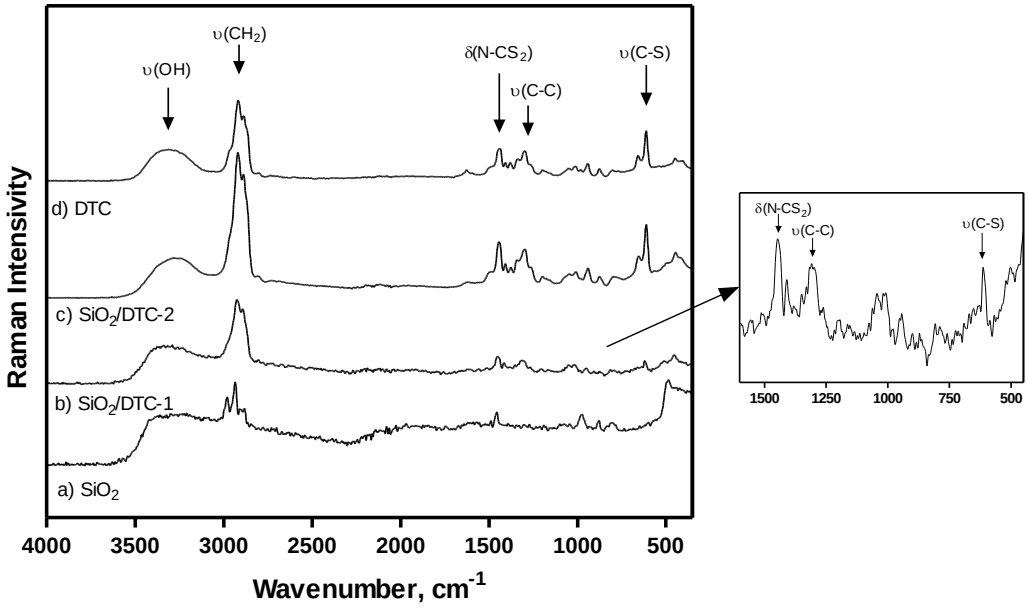

Fig. 2S Raman spectra for SiO_2, SiO_2/SiDTC-1 and SiO_2/SiDTC-2 particles, and precursor SiDTC.

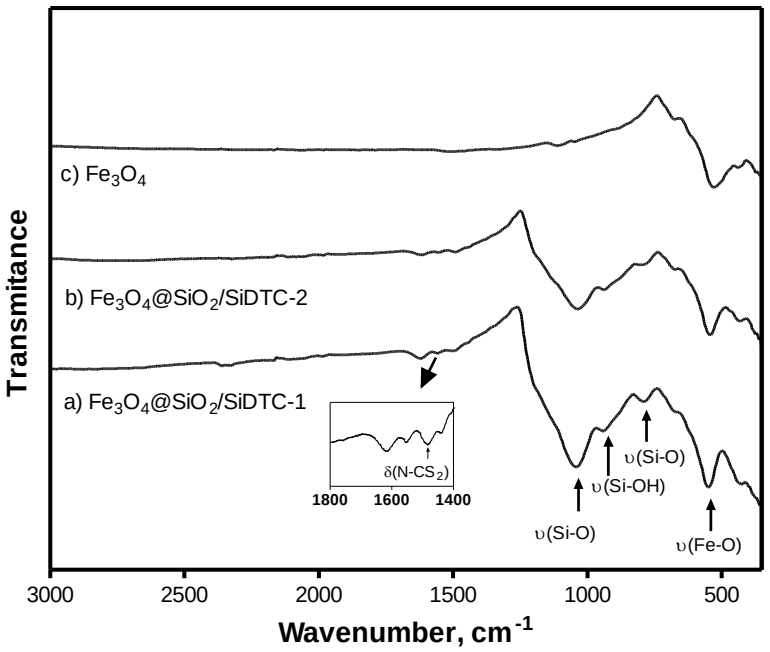

Fig. 3S ATR-FT-IR spectra of the samples (a) Fe_3O_4@SiO_2/SiDTC-1; (b) Fe_3O_4@SiO_2/SiDTC-2.

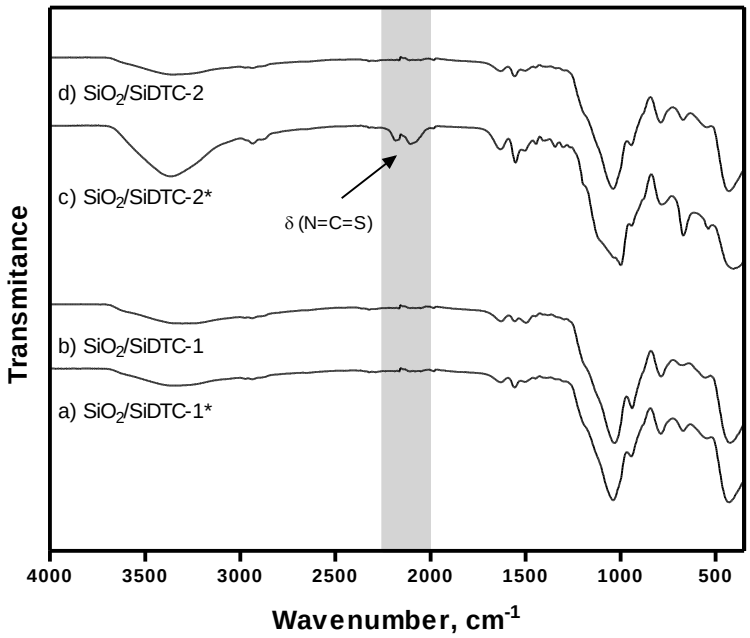

Fig. 4S ATR-FTIR spectra of the samples (a) SiO_2/SiDTC-1* (after three months), (b) SiO_2/SiDTC-1, (c) SiO_2/SiDTC-2 * (after three months) and (d) SiO_2/SiDTC-2.