

Electronic Supporting Information

γ -radiolysis preparation of nanometer-sized Cadmium Sulphide quantum dots stabilized in nanozeolite X and ZSM-5‡

Vincent De Waele,^a Abdelhafid Souici,^{b,d} Ka-Lun Wong,^c Svetlana Mintova,^c and Mehran
Mostafavi^b

^a Univ.Lille, CNRS, UMR 8516, LASIR, Laboratoire de Spectrochimie et Raman, F59 000
Lille, France

^b Laboratoire de Chimie Physique, UMR-8000, CNRS-UPS, Batiment 349, Orsay 91405,
France.

^c Laboratoire Catalyse et Spectrochimie, ENSICAEN – Université de Caen-CNRS, 6
Boulevard du Maréchal Juin, 14050 Caen, France.

^d Groupe de Crystallographie et simulation des matériaux, Laboratoire de Physico-Chimie des
matériaux et Catalyze, Faculté des sciences exactes, Université de Bejaia 06000, Algeria.

K. L. Wong, present address: Natural Sciences and Science Education Academic
Group, National Institute of Education, Nanyang Technological University, 1 Nanyang Walk,
Singapore 637616

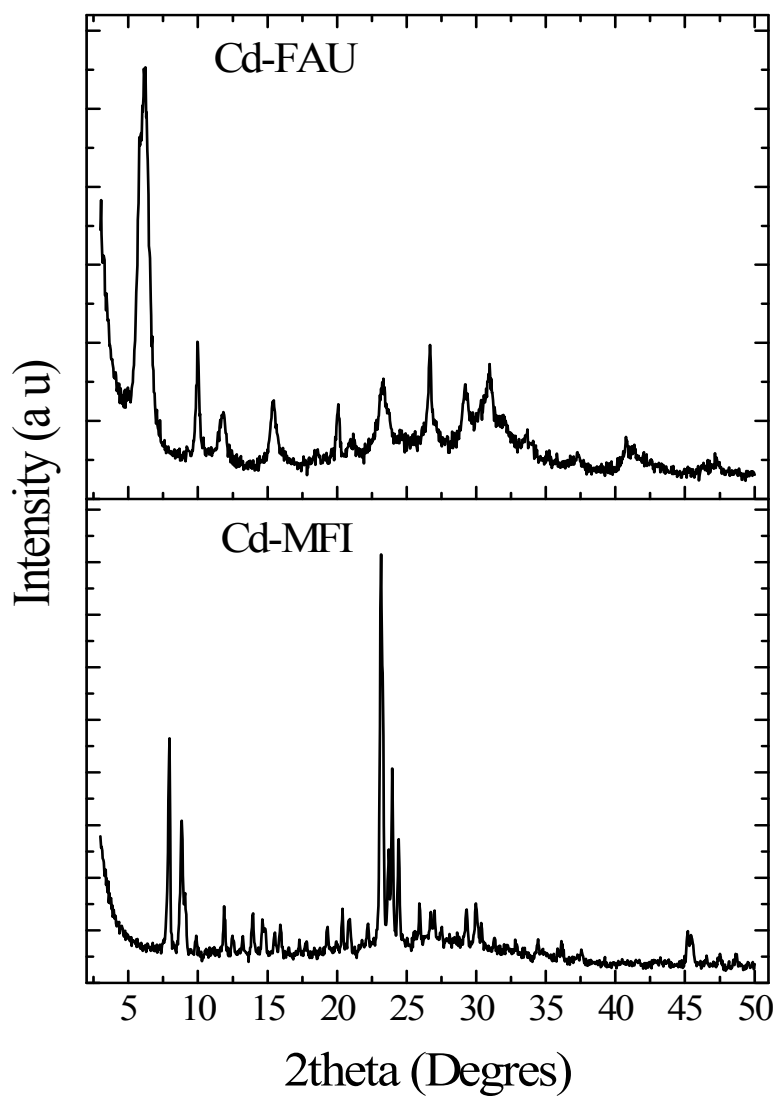


Figure S1: Powder X-ray diffraction patterns of nanosized Cd-FAU and Cd-MFI zeolites.

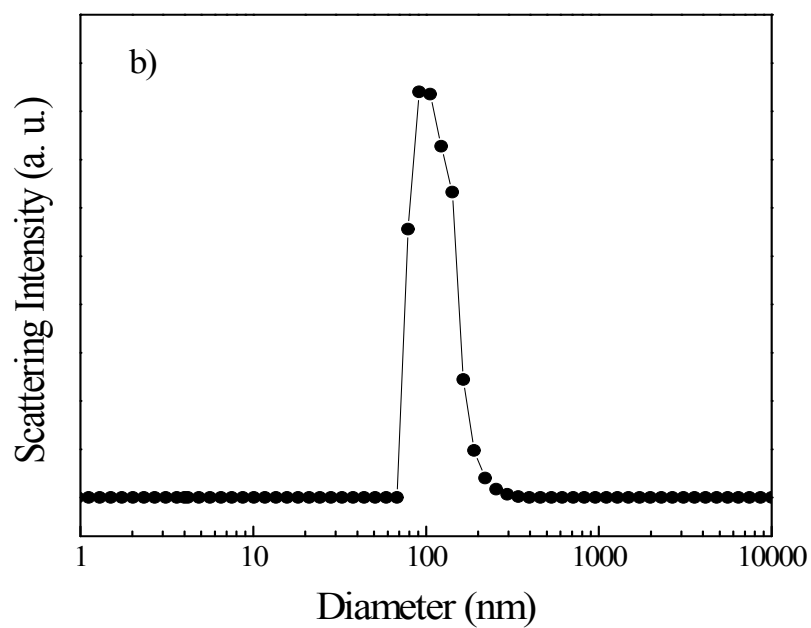
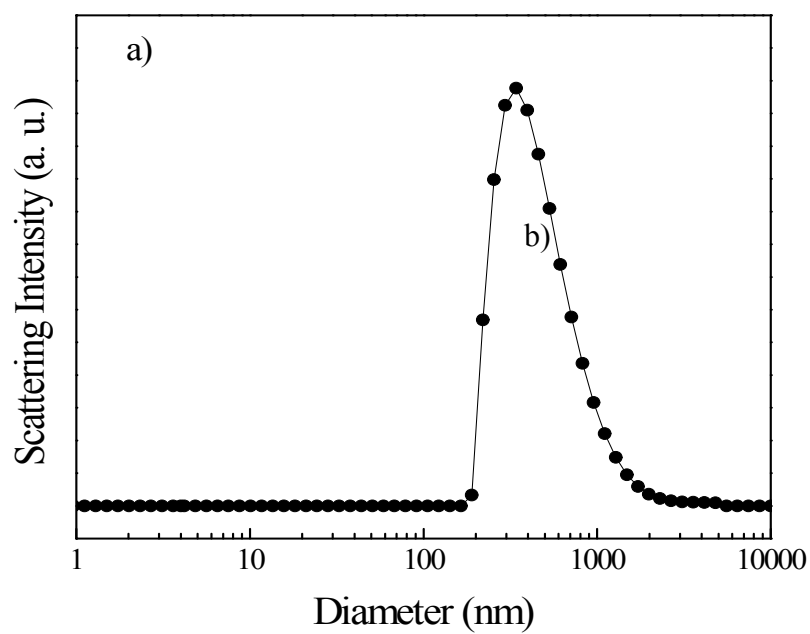


Figure S2: a) DLS data of FAU (X) zeolite and b) DLS data of MFI (ZSM-5) zeolite.

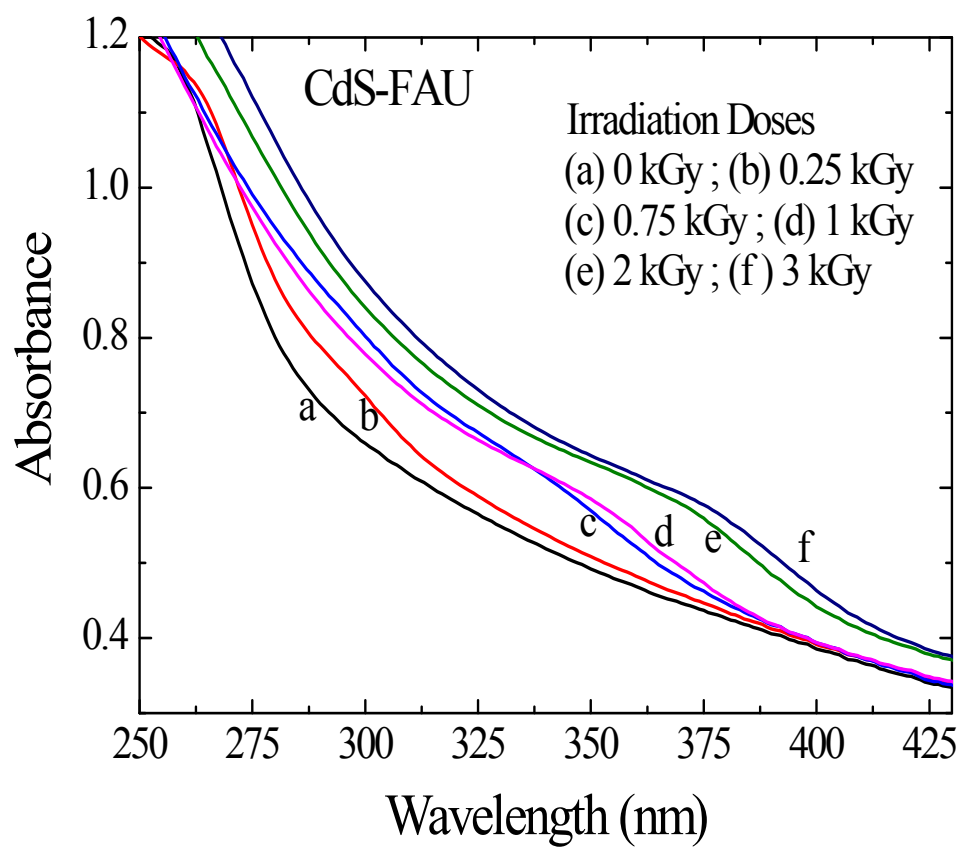


Figure S3: Absorption spectra of Cd-FAU and CdS-FAU recorded for different doses of irradiation.

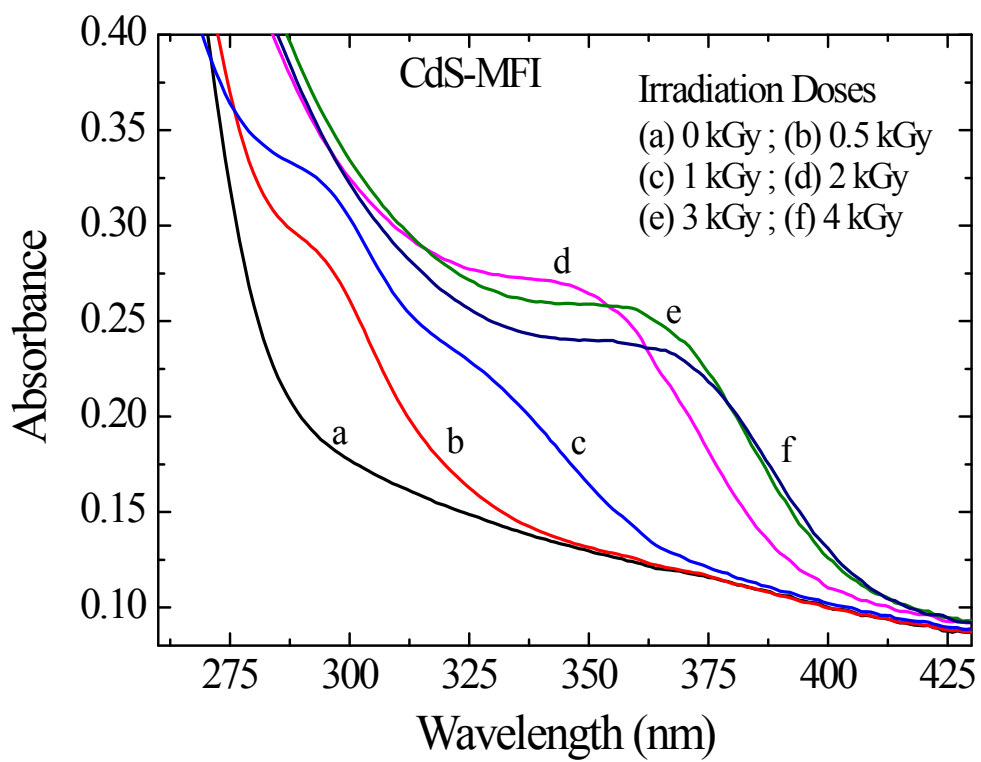


Figure S4: Absorption spectra of Cd-MFI and CdS-MFI recorded for different doses of irradiation.