

Supporting Information

Role of the Methyl and Methylene Groups of Mercapto Acids on the Photoluminescence Efficiency and Carrier Trapping Dynamics of CdTe QDs

M. Chandra Sekhar, Apurba De, Sk Saddam Hossain, Anunay Samanta*
School of Chemistry, University of Hyderabad, Hyderabad 500046, India

Contents

Figure S1: TEM images of CdTe QDs with TOP/OA (a), 2-MPA (b), MEA (c), 3-MBA (d) and 3-MPA (e) as capping agents.

Figure S2: Comparison of the 1S bleach recovery kinetics of (a) 3-MBA-capped (b) MEA-capped and (c) 2-MPA-capped CdTe QDs measured at 620 nm. The kinetic data were fitted to $\Delta A(t) = c + a_1 \exp(-t/\tau_1) + a_2 \exp(-t/\tau_2)$ and the recovery parameters are presented in Table 3. The percentages indicate the amount of bleach recovered with the 0-250 ps time domain.

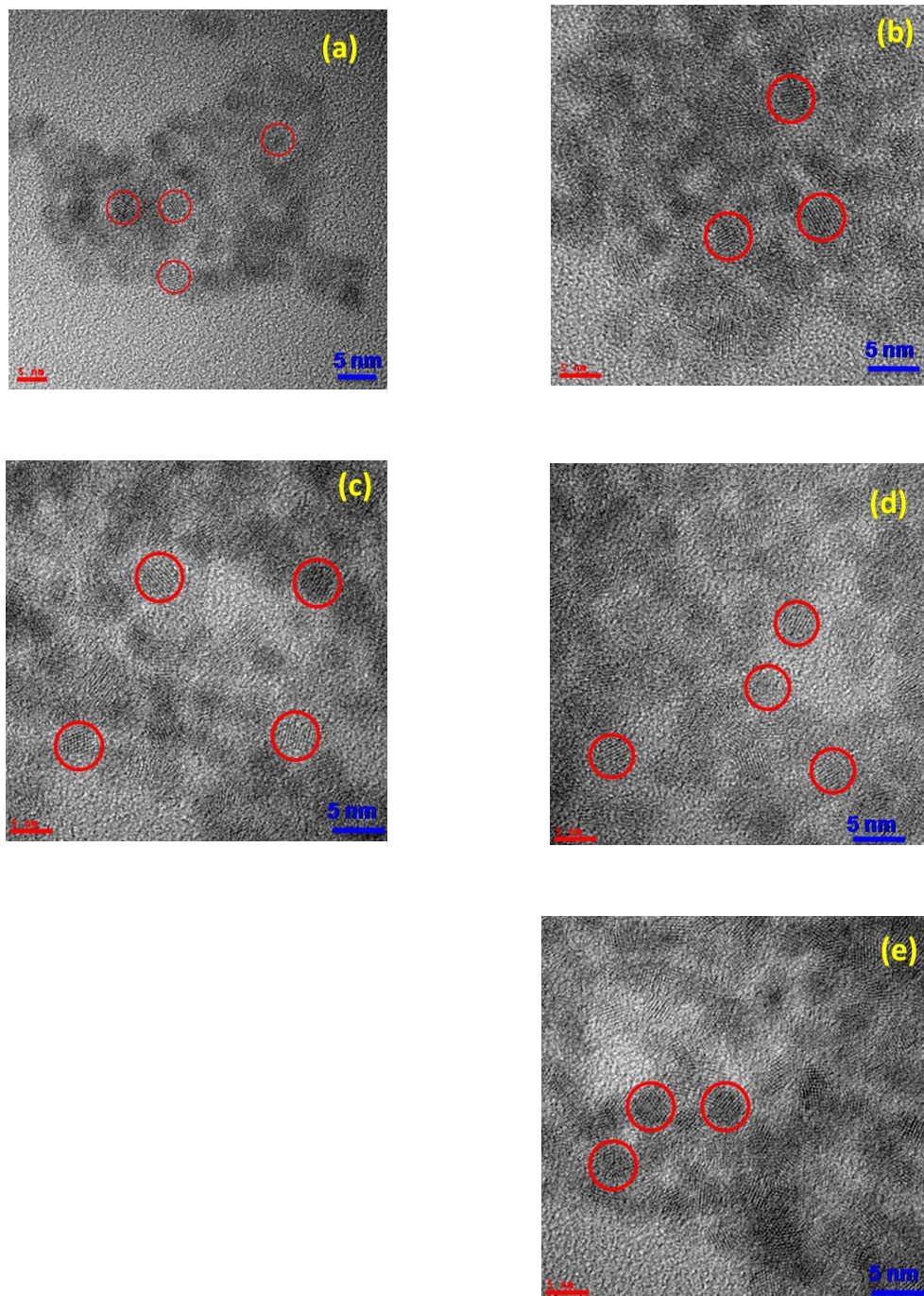


Figure S1: TEM images of CdTe QDs with TOP/OA (a), 2-MPA (b), MEA (c), 3-MBA (d) and 3-MPA (e) as capping agents.

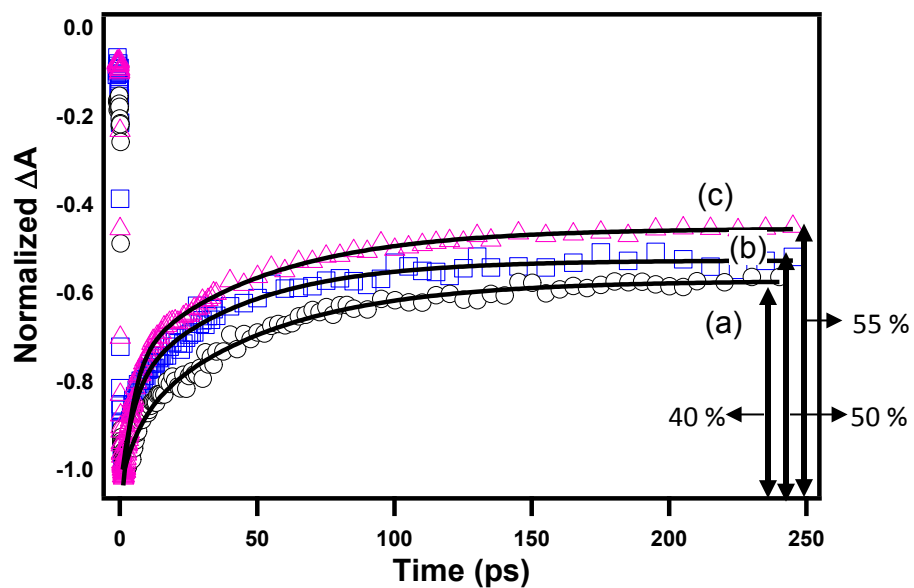


Figure S2: Comparison of the 1S bleach recovery kinetics of (a) 3-MBA-capped (b) MEA-capped and (c) 2-MPA-capped CdTe QDs measured at 620 nm. The kinetic data were fitted to $\Delta A(t) = c + a_1 \exp(-t/\tau_1) + a_2 \exp(-t/\tau_2)$ and the recovery parameters are presented in Table 3. The percentages indicate the amount of bleach recovered with the 0-250 ps time domain.