

Supporting Information for The Role of Surface States in Silver-Doped CdSe and CdSe/CdS Quantum Dots

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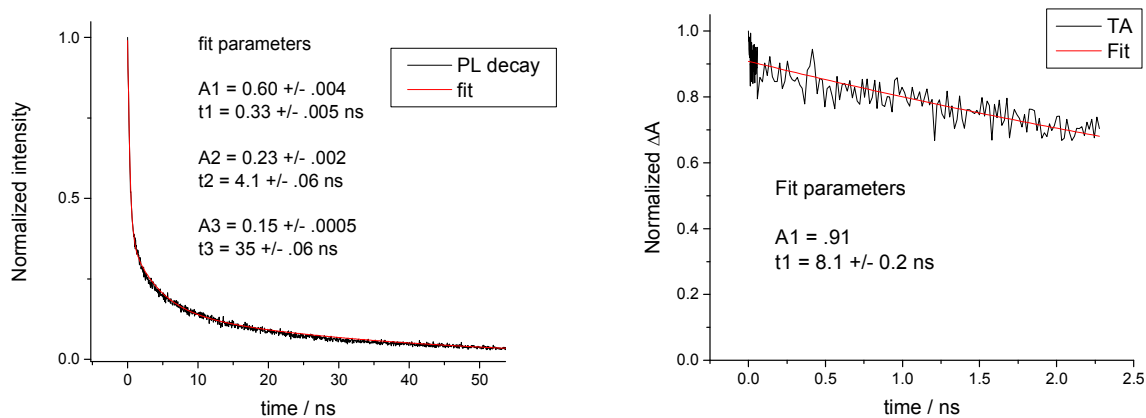
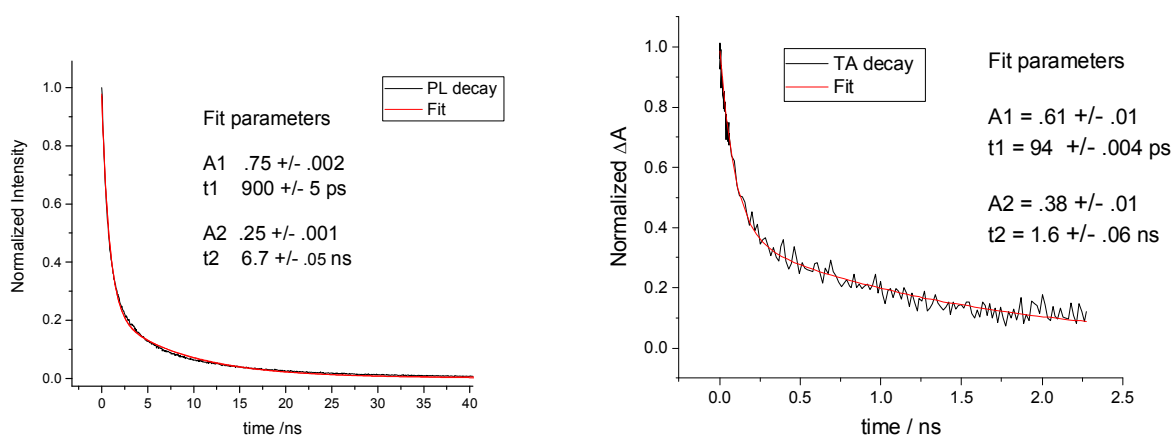


Figure S1. Fits to PL (left) and TA (right) decays of undoped, zincblende, TBP-ligated, 3.0 nm diameter CdSe particles.



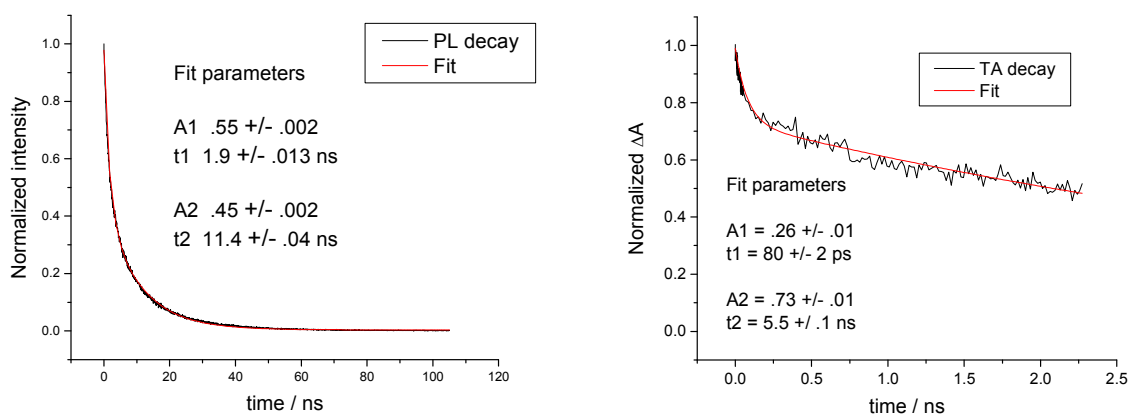


Figure S2. Fits to PL (left) and TA (right) decays for undoped (upper) and 2-ML 6 Ag/particle (lower) CdSe/CdS particles ligated with oleylamine. Fitting the long-time (0.25 – 2.0 ns) TA decay gives a time that is intermediate between the (biphasic) PL decay times.

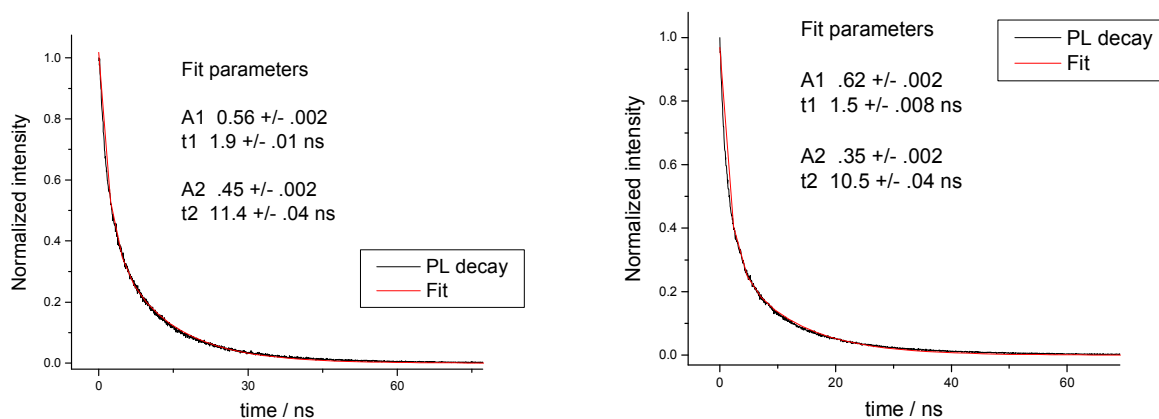


Figure S3. Fits to PL decays for 3 (left) and 10 (right) Ag/particle 2-ML CdSe/CdS particles ligated with oleylamine.

Figures S1, S2 and S3 report uncertainties as the sigma values a from a Levenberg-Marquardt curve fitting algorithm, however, based on several repeats of these experiments we estimate the errors are generally about $\pm 10\%$.

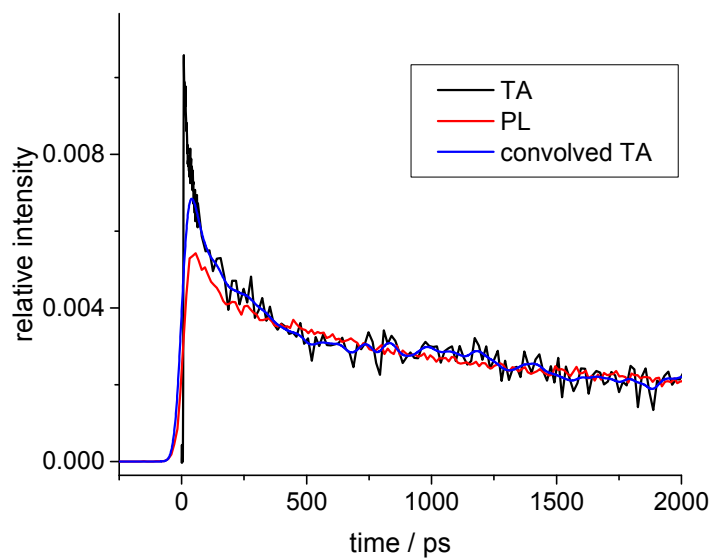


Figure S4. A comparison of the TA bleach recovery and PL decay kinetics. These PL kinetics were taken with a microchannel plate PMT detector, having about 45 ps temporal resolution. Also shown is a curve which is the TA kinetics convolved with the PL instrument response function.