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Lipid Based Systems Loaded with PbS Nanocrystals as Near Infrared Emitting Trackable Nanovectors

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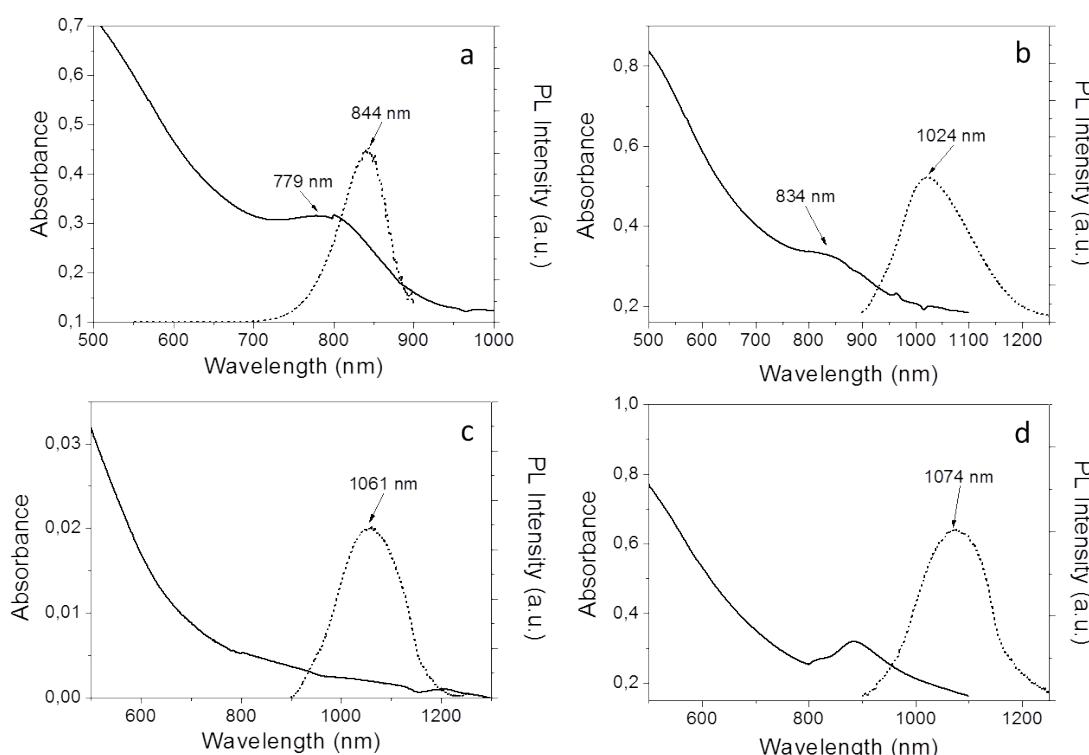


Figure S1. Comparison of the vis-NIR absorption and PL spectra ($\lambda_{\text{ex}}=650$ nm) for the (a) OLEA-, (b) DDT-capped PbS NCs, (c) PbS NC-MIC and (d) PbS NC-LIP.

The Figure S1 shows the comparison of the vis-NIR absorption and PL spectra for the OLEA-, DDT-capped PbS NCs, PbS NC-MIC and PbS NC-LIP. The Stokes Shift results equal to 65 nm and 190 nm for the OLEA- and DDT-capped PbS NCs, respectively.

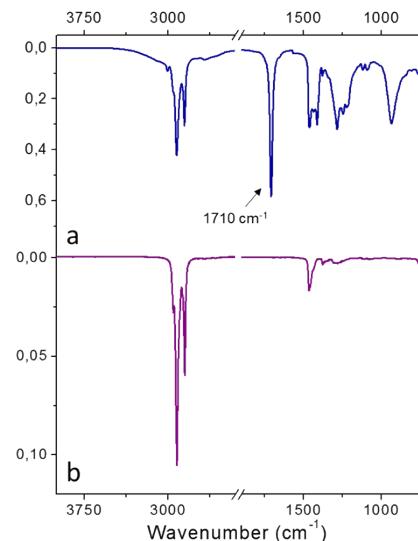


Figure S2. FTIR-ATR spectrum of pure OLEA (a) and pure DDT (b), cast from chloroform.

In the Figure S2 can be observed the FTIR-ATR spectrum of pure OLEA (a) and of pure DDT (b). Here, the broad band between 3500 and 2500 cm^{-1} can be ascribed to the O-H stretching of the carboxylic group. The intense peak at 1710 cm^{-1} and the band at 1284 cm^{-1} can be respectively attributable to C=O and C-O stretching of the carboxylic group, while the bands at 1412 cm^{-1} and at 935 cm^{-1} can be assigned to the O-H in-plane and out-of-plane stretching, respectively.