Figure S1. Scheme of the nanoparticles arrangement in the unit cell, in the BSD superlattice (the particle sizes are not in scale): most probable 3D structure (a); alternative possible structure, where the coordinates of some small particles along c have been interchanged (b).
Figure S2. (a) Time-resolved PL spectra of MSD PbS NC, recorded at 1180 nm, in TCE solution (red), in film_L (blue) and in film_H (green). (b) Time-resolved PL spectra of BSD PbS NC sample, recorded at 1480 nm, in TCE solution (red), in film_L (blue) and in film_H (green). Symbols refer to the excited state decay, while the solid line to the corresponding fitting.