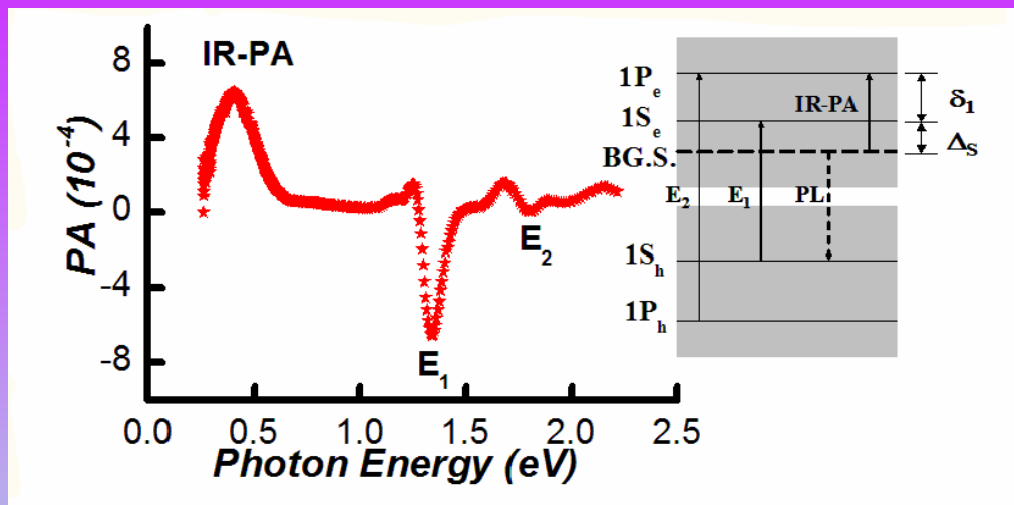
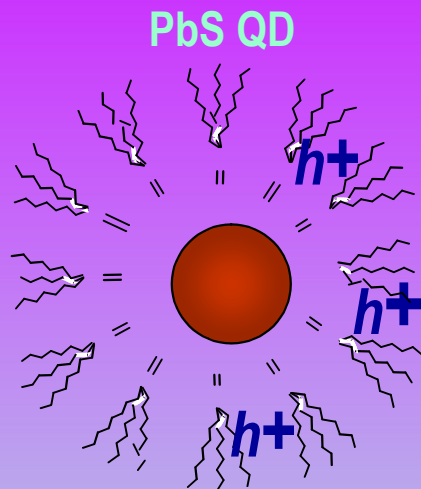
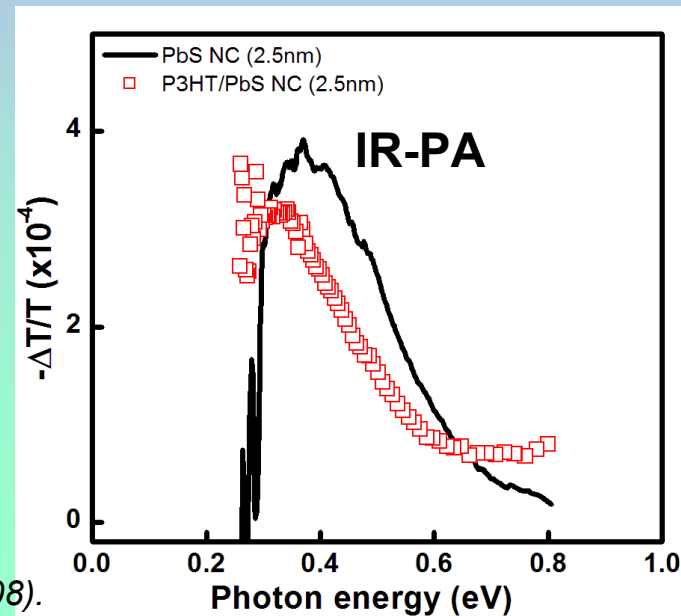
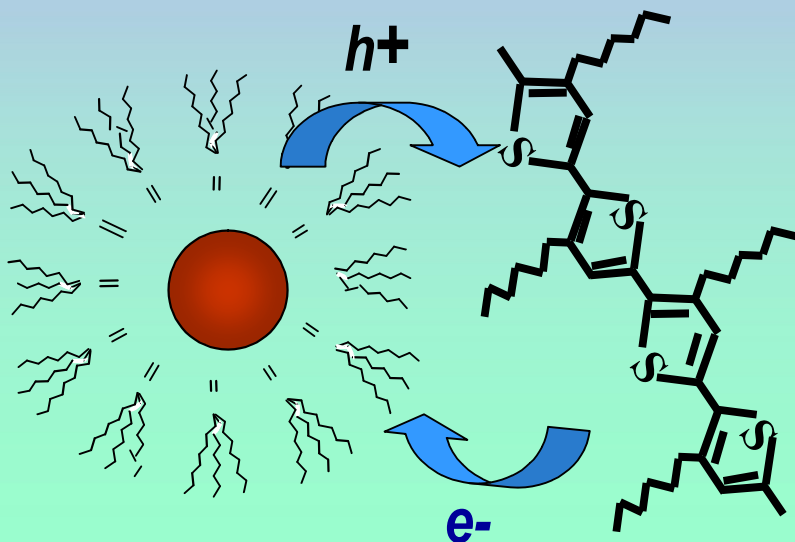


A Spectroscopic gauge to measure photoinduced charge transfer (PCT) in π -conjugated polymers (CPs)/quantum dots (QDs) nanocomposites



The below-gap state (BG.S.) in PbS QDs: We have discovered a below-gap (BG) state which shows a confinement-dependent absorption (IR-PA) in the near infrared range in the original PbS NC films [1]. This BG state can be used to monitor *PCT* between CPs and QDs.



[1] J. Zhang and X. Jiang, *JPCB letters*, 112, 9557–9560 (2008).