

Electronic Supplementary Information for

Opto-electronics of PbS quantum dot and narrow bandgap polymer blends

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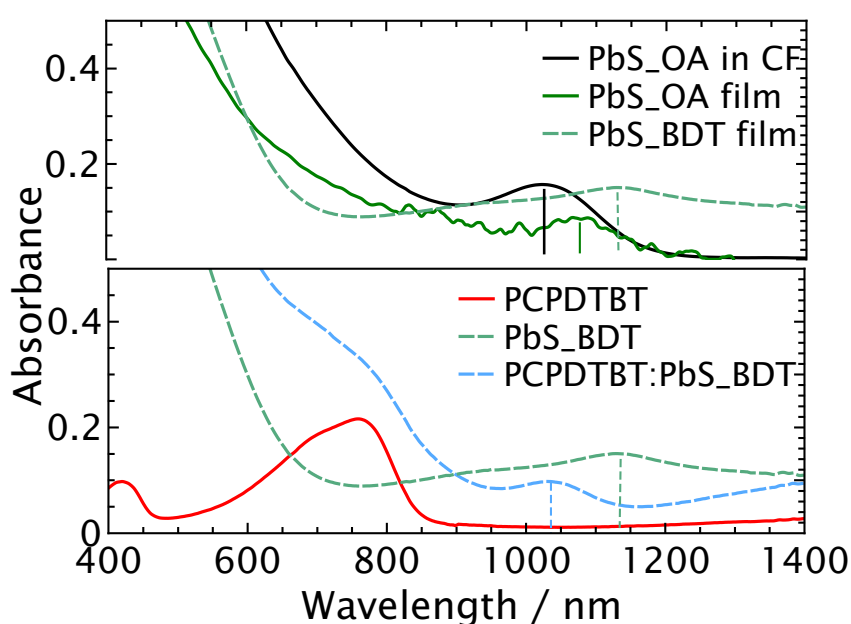


Figure S1: Absorption spectra of PbS QDs in solution and in films with different ligands (top). Pristine PCPDTBT and PbS_BDT as films compared with a blend (1:9) (bottom). The increased background especially of the PbS_BDT film arises since here a thick film of QDs was treated with BDT and this leads to a stronger scattering.

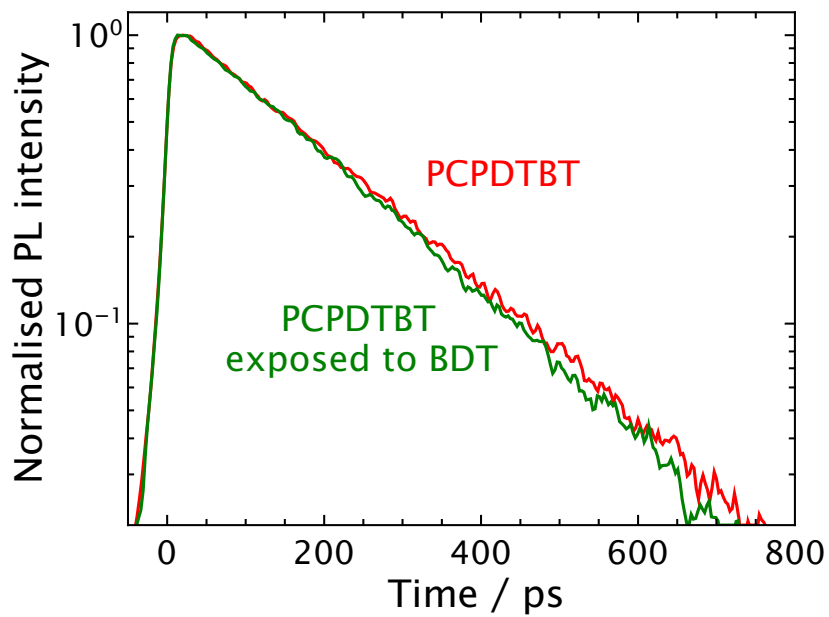


Figure S2: Time resolved PL of pristine PCPDTBT as-cast and when exposed to BDT.

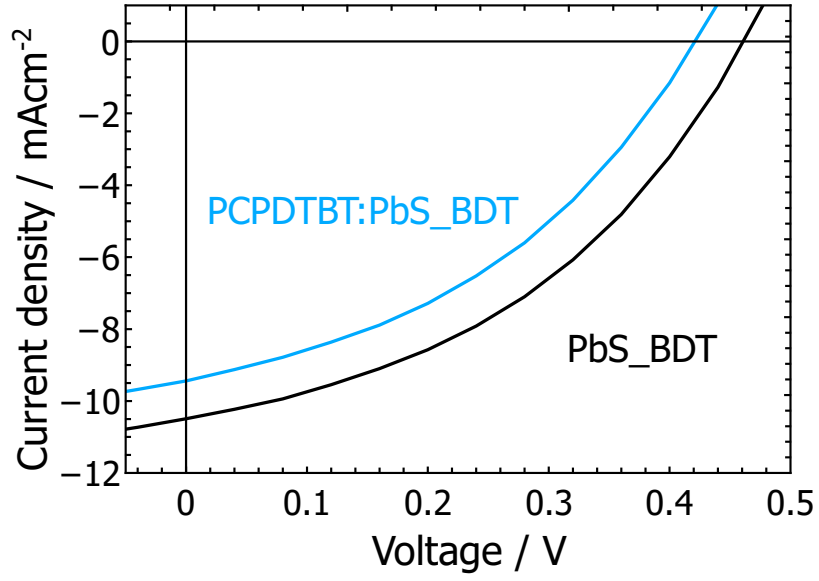


Figure S3: J-V curve of the pristine QDs solar cell (black) and the one comprising the blended AL (blue).

Table S1: Solar cell parameters of the cells used for the EQE in the main text

AL	$J_{SC} / \text{mA cm}^{-2}$	V_{OC} / V	FF / %	PCE / %
PbS_BDT	10.5	0.46	41	1.99
blend	9.5	0.42	39	1.57

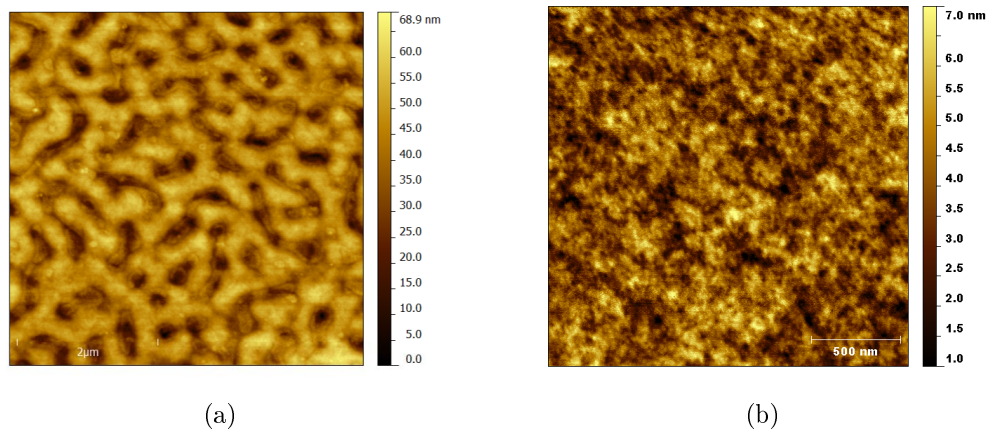


Figure S4: AFM measurement of a blended film after annealing at 140 °C (a) and a pristine film of Pbs_BDT (b).