

Supporting Information

Fast recombination of charge-transfer state in organic photovoltaic composite of P3HT and semiconducting carbon nanotubes is the reason of its poor photovoltaic performance

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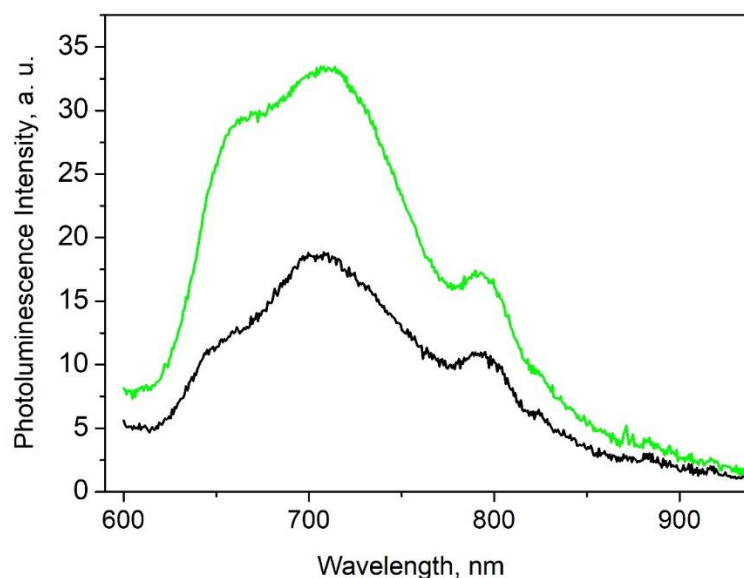


Figure S1. Photoluminescence spectra of pristine P3HT (green line) and P3HT/s-SWCNT composite with 2 % weight fraction of s-SWCNT (black line). The excitation at 525 nm was performed by tunable Xenon light source TLS300XU (Newport). The films were spin-coated on quartz substrate from o-dichlorobenzene solution at 2000 rpm. The shoulder at 790 nm is an experimental artefact.

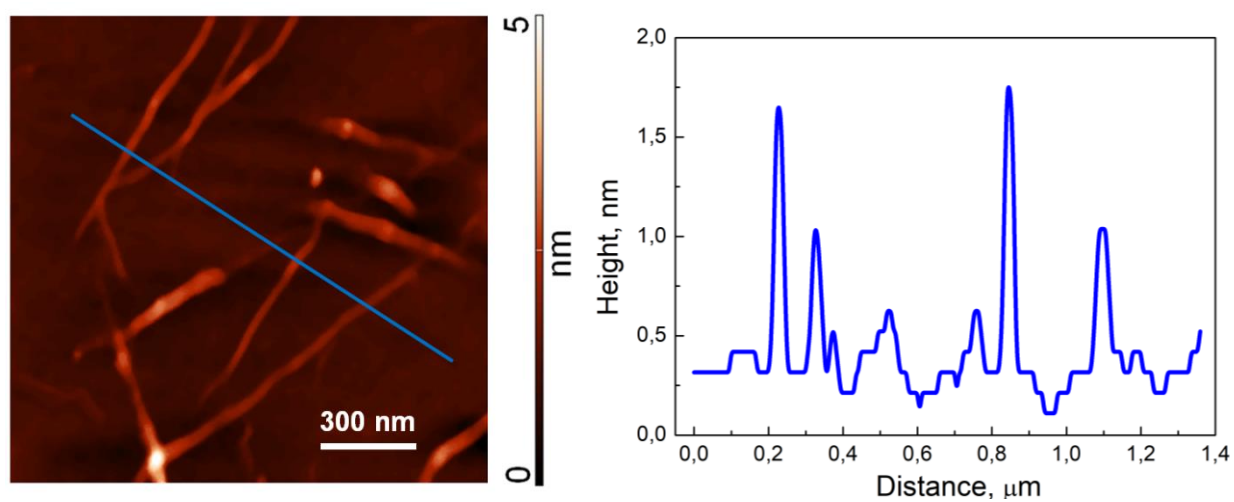


Figure S2. Left panel: AFM image of IsoNanotube-S s-SWCNTs spin-coated from o-dichlorobenzene dispersion (prepared by sonication) onto silicon plate at 8000 rpm. Right panel: height profile of this image along the blue line at the left panel.