

Supplementary Information

Improved Electron Extraction by ZnO Nanoparticles Interlayer for Solution-Processed Polymer Solar Cells

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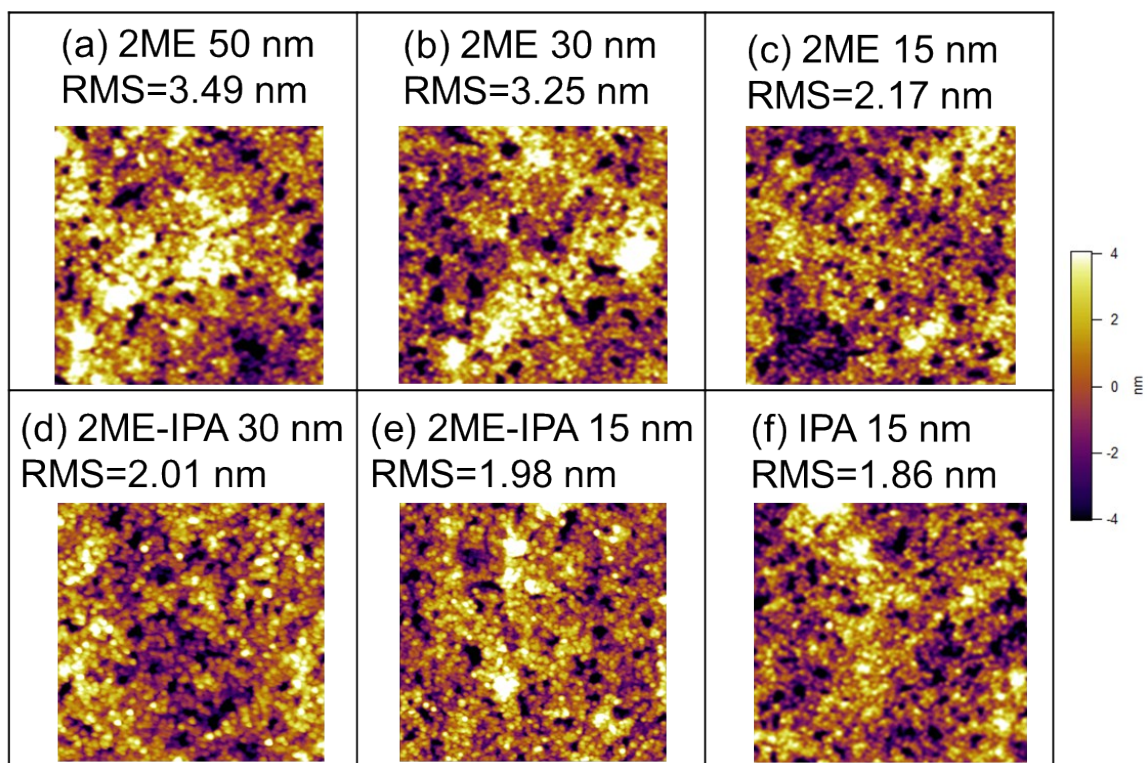


Figure S1. AFM surface topographic images of PTB7-Th:PC₇₁BM active layer with ZnO nanoparticle thin films with different solvents and thicknesses. (image size: 2 μm \times 2 μm).

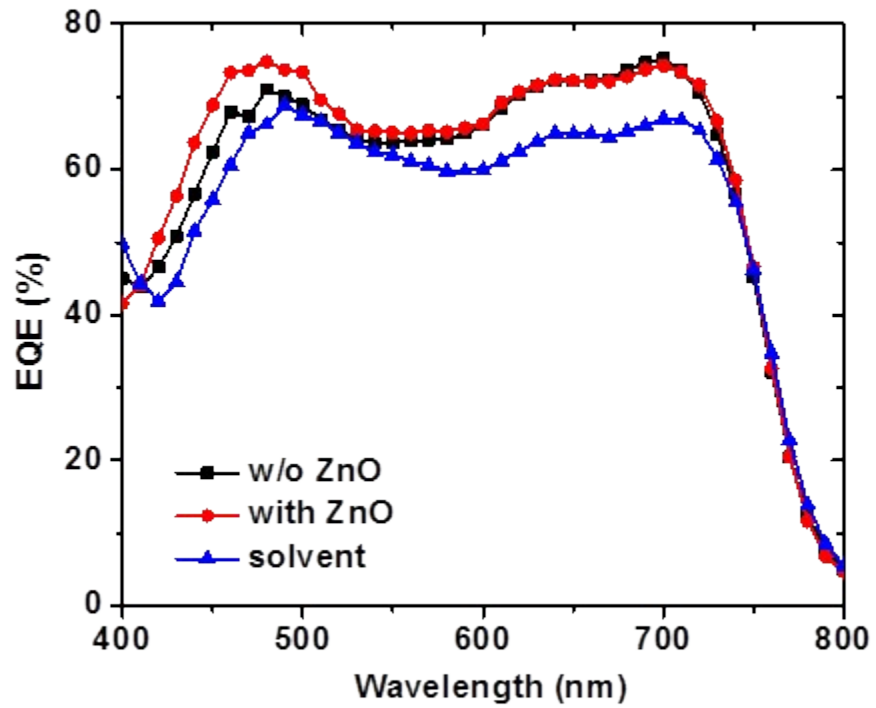


Figure S2. EQE spectra of PTB7-Th:PC₇₁BM solar cells without, with ZnO nanoparticle ETLs, and treated only by the solvent of isopropanol.

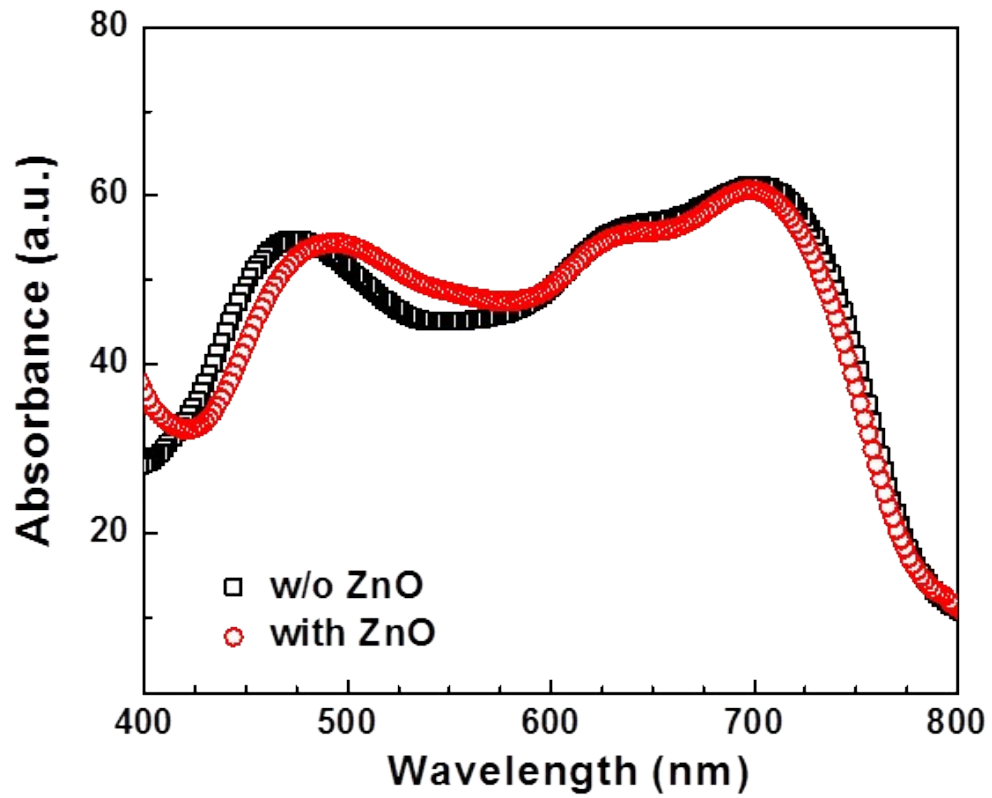


Figure S3. Absorption spectra of ITO/PEDOT:PSS/PTB7-Th:PC₇₁BM/Al (reflection mode) with and without ZnO ETLs (30 nm).