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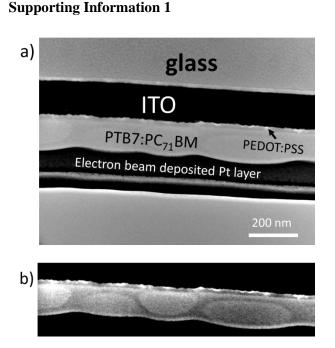


Fig. S1. a) Conventional TEM image of Sample 1 cross-section with all layers. The image was obtained with 5 micrometres defocusing; b) Central part of image a) with enhanced contrast.

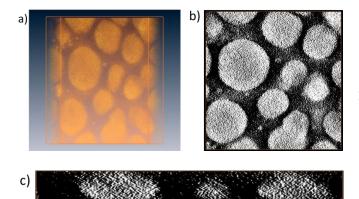
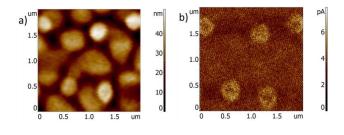


Fig. S2. EFTEM tomography (carbon distribution) in the film without DIO: a) A 3D view, b) An XY cross-section in the middle of film, c) An XZ cross-section. Reconstructed volume is $1.2 \times 1.2 \times 0.15 \mu$ m. See also Supplementary Information 2 for video with tomography reconstruction.



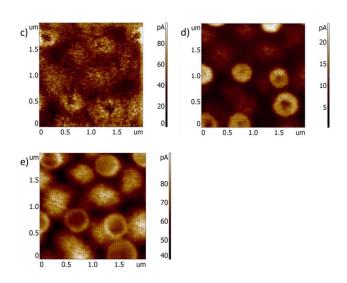


Fig. S3. AFM results for PTB7:PC₇₁BM film deposited on glass/Al: a) topography; b), c), d) current images obtained at U_{tip} : b) +0.3 V; c) +3 V; d) -0.5 V; e) -3 V.

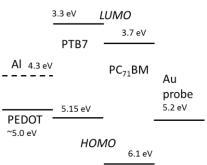


Fig. S4. Energy levels of the materials used in this work.⁶