

SUPPORTING INFORMATION

High-performance polymer solar cells with a conjugated zwitterion by solution processing or thermal deposition as the electron-collection interlayer

Kuan Sun,^{a,c} Baomin Zhao,^d Vajjiravel Murugesan,^a Amit Kumar,^b Kaiyang Zeng,^b Jegadesan Subbiah,^c Wallace W. H. Wong,^c David J. Jones^c and Jianyong Ouyang*^a

^a Department of Materials Science and Engineering, National University of Singapore, Singapore 117576.

^b Department of Mechanical Engineering, National University of Singapore, Singapore 117576.

^c School of Chemistry, Bio21 Institute, The University of Melbourne, 30 Flemington Road, Parkville, Victoria 3010, Australia.

* Corresponding author. E-mail: mseoj@nus.edu.sg

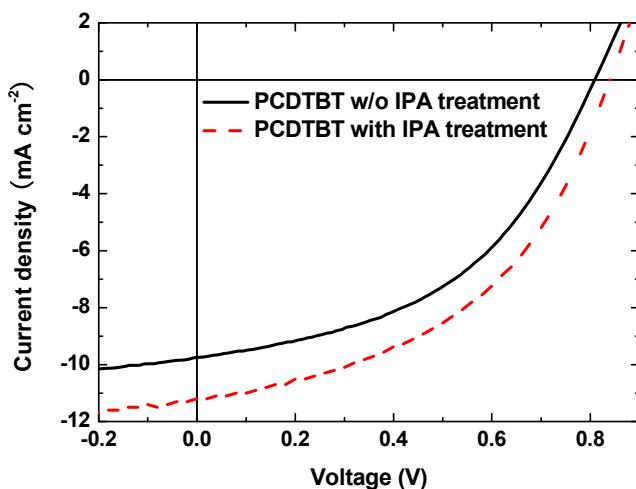


Fig. S1 J - V curves of ITO/PEDOT:PSS/PCDTBT:PC₇₁BM/Al. The devices were spin cast iso-propanol at 2000 rpm on top of the active layer before thermal annealing and deposition of Al (red dash line).

Table S1 Photovoltaic performance of ITO/PEDOT:PSS/PCDTBT:PC₇₁BM/Al without and with iso-propanol treatment. The values in parenthesis are the average results from 5 devices.

IPA treatment	V_{oc} (V)	J_{sc} (mA cm^{-2})	FF	PCE (%)
No treated	0.81 (0.80)	9.75 (9.56)	0.47 (0.47)	3.67 (3.58)
treated	0.84 (0.84)	11.2 (11.26)	0.47 (0.46)	4.38 (4.37)

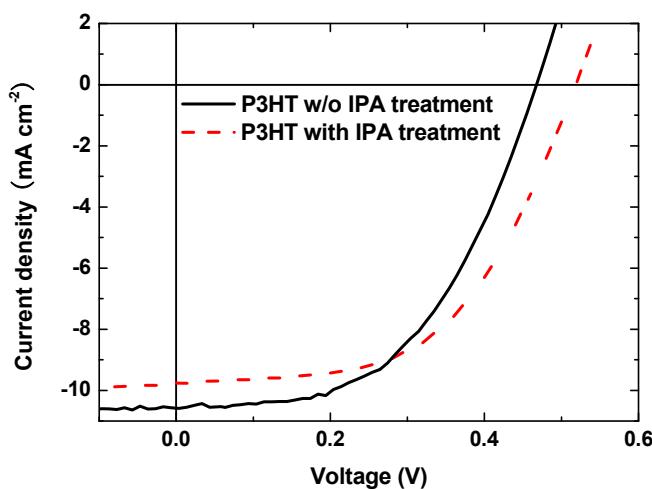


Fig. S2 J - V curves of ITO/PEDOT:PSS/P3HT: PC₆₁BM/Al. The devices were spin cast iso-propanol at 2000 rpm on top of the active layer before deposition of metal cathode (red dash line).

Table S2 Photovoltaic performance of ITO/PEDOT:PSS/P3HT: PC₆₁BM/Al without and with iso-propanol treatment. The values in parenthesis are the average results from 5 devices.

IPA treatment	V_{oc} (V)	J_{sc} (mA cm ⁻²)	FF	PCE (%)
No Treated	0.46 (0.46)	10.59 (10.45)	0.52 (0.51)	2.53 (2.43)
Treated	0.52 (0.52)	9.76 (9.69)	0.52 (0.52)	2.73 (2.69)