

Supporting Information

**Boosted the efficiency of PTB7-Th:PC₇₁BM polymer solar cells
via a low-cost halogen-free supramolecular solid additive**

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Figure S1. Molecule structures of PBTOR-FBTA and ITIC

Figure S2. Schematic energy diagram of the materials used in the PSCs

Figure S3. *J-V* curves of PSCs without, with 2 vol% DIO as well as 2 wt% ROPD, respectively.

Table S1. Photovoltaic parameters of PSCs based on PBTOR-FBTA:ITIC without, with 2 vol% DIO, and with 2 wt% ROPD additives, respectively.

Figure S1

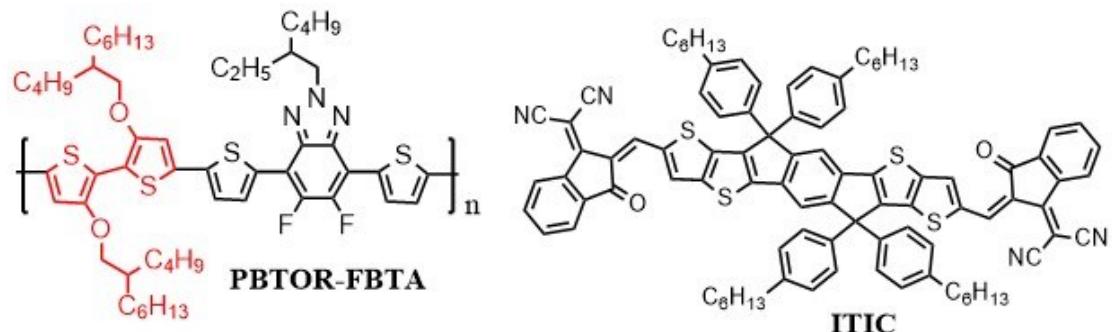


Figure S2

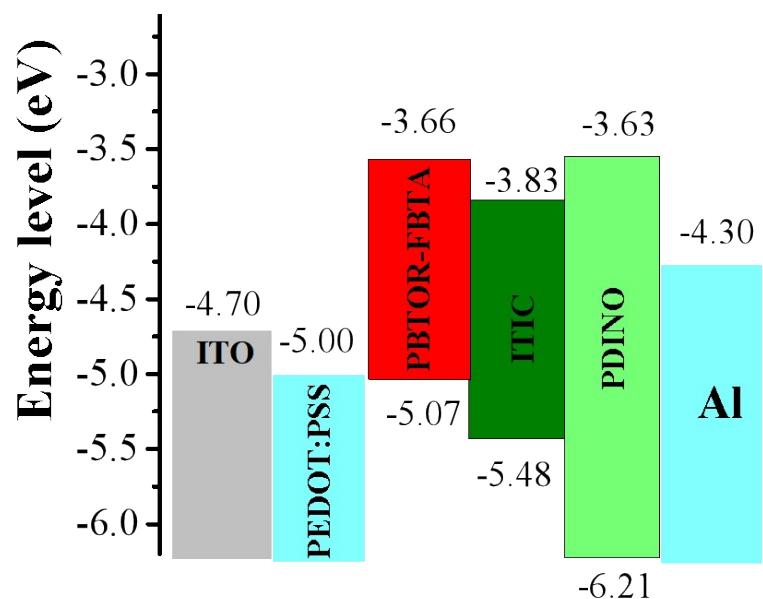


Figure S3

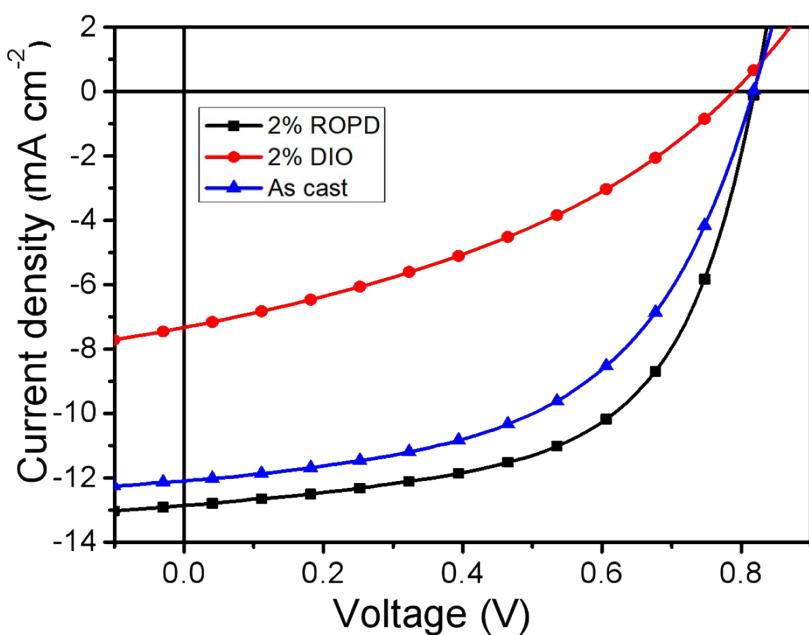


Table S1

Additive	V_{oc} (V)	J_{sc} (mA/cm ²)	FF (%)	PCE (%)	Speed (rpm)
As cast	0.82	12.06	52.87	5.21	2500
2%DIO	0.79	7.32	36.54	2.10	2500
2%ROPD	0.82	12.84	58.68	6.17	2500