

Supporting Information

Light Manipulating Electrode based on High Optical Haze Aluminum-Doped Zinc Oxide for Highly Efficient Indium-Tin-Oxide Free Organic Solar Cells Over 13% Efficiency

Qikun Rong, Jie Zhao, Hui Yu, Na Li*, Qian Zhang, Dong Yuan*, Wei Liu, Dongfeng Zheng, Xingsen Gao, Lingling Shui, Guofu Zhou*, Li Nian*

Table R-1. The differences of the J_{sc} from EQE and J-V curve for devices based on different cathodes.

Cathodes	J_{sc} from EQE (mA/cm ²)	J_{sc} from J-V curve (mA/cm ²)	Error
Flat-ITO	20.93	20.43	2.44%
Flat-AZO	19.86	19.31	2.85%
Texture-AZO	22.11	21.45	3.08%

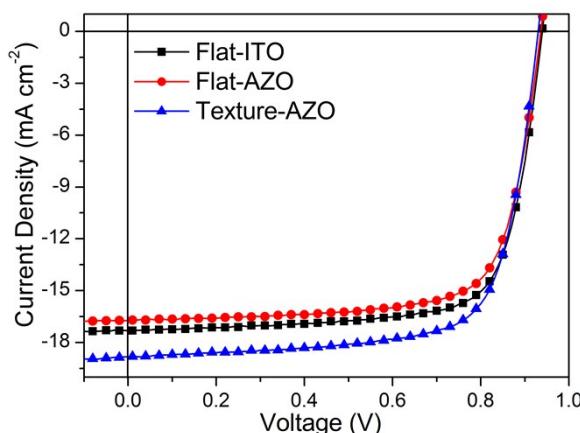


Figure S-1. Current density versus voltage characteristics of the devices with different cathodes based on PBDB-T:IT-M active-layer. Device structure: Glass/ Texture-AZO or Flat-AZO or Flat-ITO/ ZnO/ PBDB-T: IT-M/ MoO₃/Al.

Table R-2. Photovoltaic parameters for PBDB-T: IT-M based devices with different cathode.

Cathodes	V_{oc} (V)	J_{sc} (mA/cm ²)	FF (%)	PCE (%)
Flat-ITO	0.94	17.31	73.86	12.02
Flat-AZO	0.94	16.72	72.46	11.39
Texture-AZO	0.94	18.84	71.87	12.73