Supplementary Materials: Enhanced Photovoltaic Properties of Bulk Heterojunction Organic Photovoltaic Devices by an Addition of a Low Band Gap Conjugated Polymer

Eui Jin Lee, Min Hee Choi and Doo Kyung Moon

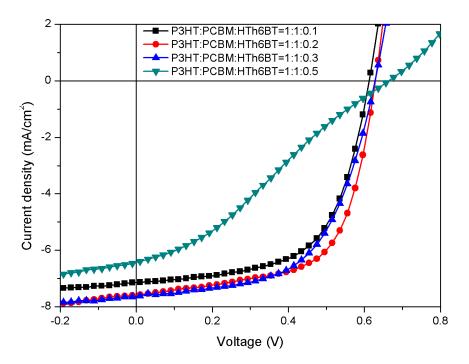


Figure S1. *J–V* curves of OPV devices with different ratio of HTh6BT.

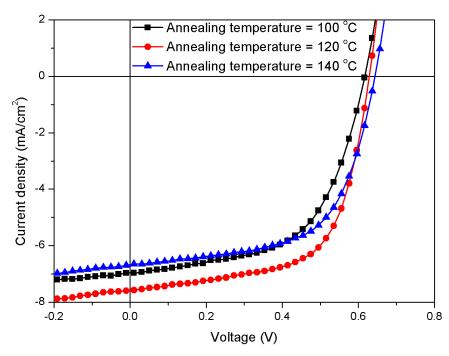


Figure S2. *J–V* curves of OPV devices with optimal ratio and different annealing temperature.

Materials **2016**, 9, x; doi: S2 of S3

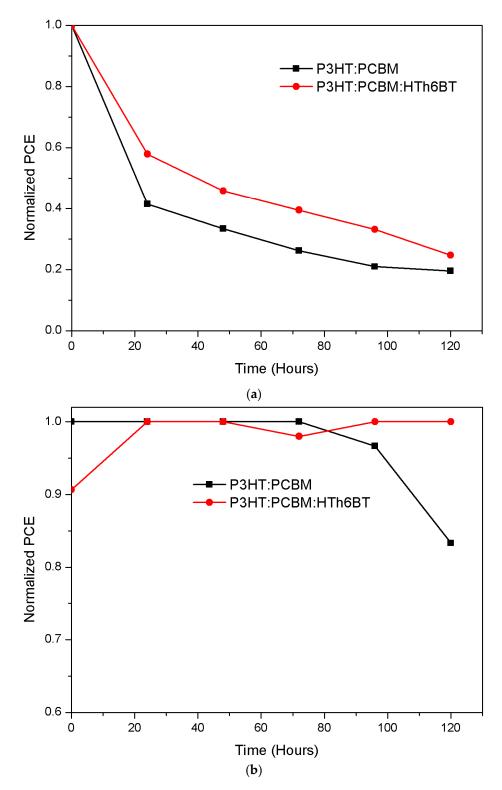


Figure S3. Variation of normalized PCE of devices, which were stored in air with constant temperature and humidity (23 °C, 50%) (a) ITO/PEDOT:PSS/Photoactive layer/Al and (b) ITO/ZnO/Photoactive layer/MoO₃/Ag.

Materials **2016**, 9, x; doi:

Table S1. Photovoltaic performances of OPV devices with different ratio of HTh6BT.

P3HT:PCBM:HTh6BT (w/w)	Jsc (mA/cm ²)	Voc (V)	FF (%)	PCE (%)
1:1:0.1	7.1	0.616	60.4	2.7
1:1:0.2	7.6	0.636	62.3	3.0
1:1:0.3	7.6	0.636	57.2	2.8
1:1:0.5	6.4	0.657	29.5	1.2

Table S2. Photovoltaic performances of OPV devices with optimal ratio and different annealing temperature.

Annealing Temperature (°C)	J_{sc} (mA/cm ²)	<i>Voc</i> (V)	FF (%)	PCE (%)
100	7.0	0.616	57.5	2.5
120	7.6	0.636	62.3	3.0
140	6.7	0.636	61.8	2.6