

Supporting information for

**Bulk heterojunction solar cells based on preformed polythiophene
nanowires via solubility-induced crystallization**

By Joo-Hyun Kim¹, Jong Hwan Park², Ji Hwang Lee¹, Jong Soo Kim¹, Myungsun Sim²,
Chiyeoung Shim¹ and Kilwon Cho^{1,2*}

¹School of Environmental Science and Engineering,
Pohang University of Science and Technology, Pohang, 790-784, Korea

²Department of Chemical Engineering,
Pohang University of Science and Technology, Pohang, 790-784, Korea

Table S1. Boiling point, vapor pressure and P3HT and PCBM solubility of chlorobenzene and cyclohexanone

	Boiling Point ^[a]	Vapor Pressure ^[a]	P3HT solubility	PCBM solubility
	[°C]	[mmHg]	[%]	[%]
Chlorobenzene	132	11.8	100	100
Cyclohexanone	155	5.0	3.3	91.6

[a] Data compiled from Korea thermophysical properties data bank (KDB), infosys.korea.ac.kr/kdb

P3HT and PCBM solubilities to both of the solvents, chlorobenzene and cyclohexanone were measured. Each component was solubilized in chlorobenzene and cyclohexanone, respectively (1.0 wt %) for 48 hrs and filtered through a Whatman membrane filter with a porosity of 0.2 μm . Precipitates were collected, vacuum dried for overnight and measured.