

Materials List for:

Morphology Control for Fully Printable Organic–Inorganic Bulk-heterojunction Solar Cells Based on a Ti-alkoxide and Semiconducting Polymer

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Materials

Name	Company	Catalog Number	Comments
Ti(IV) isopropoxide, 97%	Sigma Aldrich	205273	
Ti(IV) ethoxide	Sigma Aldrich	244759	Technical grade
Ti(IV) butoxide, 97%	Sigma Aldrich	244112	Reagent grade
Ti(IV) butoxide polymer	Sigma Aldrich	510718	
Poly[2,7-(9,9-dioctylfluorene)-alt-4,7-bis(thiophen-2-yl)benzo-2,1,3-thiadiazole] (PFO-DBT)	Sigma Aldrich	754013	
[6,6]-phenyl-C ₆₁ -butyric acid methyl ester ([60]PCBM) 99.5%	Sigma Aldrich	684449	Research grade
poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate) (PEDOT-PSS)	Heraeus	Clevios S V3	
1 N Hydrochloric acid	Wako	083-01095	
Chlorobenzene 99.0%	Wako	032-07986	
Acetone 99.5%	Wako	016-00346	
Indium-tin oxide (ITO)-coated glass substrate	Geomatec	0002	100×100×1.1t (mm)
Glass substrate	Matsunami Glass	S7213	76×26×1.2t (mm)
Cotton tail	As one	1-8584-16	
Epoxy resin	Nichiban	AR-R30	
Plastic spatula	As one	2-3956-02	
Ultrasonic cleaner	As one	AS482	
Magnetic hot stirrer	As one	RHS-1DN	
Ceramic hotplate	As one	CHP-17DN	
Spin coater	Kyowariken	K-359 S1	
Vacuum pump	ULVAC	DA-30S	
UV-O ₃ cleaner	Filgen	UV253E	
Screen printer	Mitani Electronics	MEC-2400	
Ultrasonic Soldering system	Kuroda Techno	SUNBONDER USM-5	
Direct-current voltage and current source/monitor integrated system	San-Ei Electric	XES-40S1	
Scanning electron microscope	JEOL Ltd.	JSM-7800	