

Materials List for:

Indacenodithienothiophene-Based Ternary Organic Solar Cells: Concept, Devices and Optoelectronic Analysis

Nicola Gasparini¹, Amaranda García-Rodríguez², Athanasios Katsouras³, Apostolos Avgeropoulos³, Georgia Pagona^{4,5}, Vasilis G. Gregoriou^{4,5}, Christos L. Chochos^{3,4}, Sybille Allard², Ulrich Scherf², Christoph J. Brabec^{1,6}, Tayebah Ameri¹

¹Institute of Materials for Electronics and Energy Technology (I-MEET), Friedrich-Alexander-University Erlangen-Nuremberg

²Macromolecular Chemistry Group (buwmakro) and Institute for Polymer Technology, Bergische Universität Wuppertal

³Department of Materials Science Engineering, University of Ioannina

⁴Advent Technologies SA

⁵National Hellenic Research Foundation (NHRF)

⁶Bavarian Center for Applied Energy Research (ZAE Bayern)

Correspondence to: Nicola Gasparini at nicola.gasparini@fau.de

URL: <http://www.jove.com/video/54007>

DOI: [doi:10.3791/54007](https://doi.org/10.3791/54007)

Materials

Name	Company	Catalog Number	Comments
1,2-Dichlorobenzene	Aldrich	606078	solvent
1-Chloronaphtalene	Aldrich	970836	solvent
chloroform	Aldrich	1731042	solvent
PC71BM	Solenne	07099	BHJ material
Toluene	Aldrich	2036259	solvent
Chloroform-d	Aldrich	1697633	solvent
trichlorobenzene	Aldrich	956819	solvent
5,5'-bis(trimethylstannyl)-3,3'-di-2-ethylhexylsilylene-2,2'-bithiophene	Aldrich	143367-56-0	starting material
Pd(PPh ₃) ₄	Aldrich	14221-01-3	catalyst
source measurements unit	BoTEst		
Solar simulator Oriel Sol 1A	Newport		
Spectrometer Lambda 950	Perkin Elmer		
EQE setup	Enlitech		
oscilloscope DSO-X 2024A	Agilent Technologies		
NMR setup	Bruker AVANCE III 600		
GPC setup	Alliance 2000		
Doctor blade	Zehntner ZAA 2300		
evaporator	mbraun		
glove boxes	mbraun		
Laser 405 nm	THORLABS		
functon generator	Agilent Technologies 33500B series		