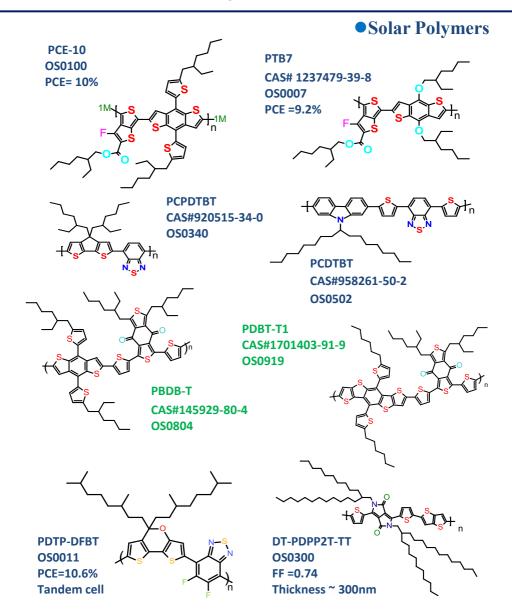
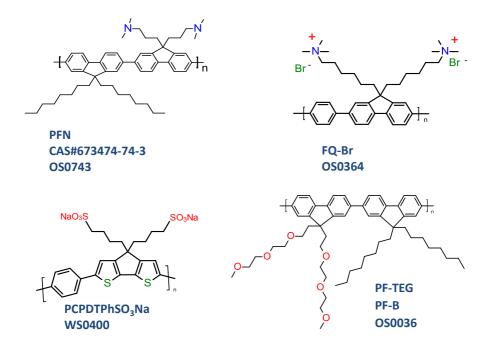


1 = 0NE



Polymeric electrolytes for interface



R2R Solar Polymers



Thickness	400 ± 300 nm	Tolerant
Stability	> 150 °C	Thermo-stable
Acceptor	PC ₆₀ BM	Comparable
PCE (%)	9 ± 2	Reproducible



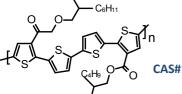
C ₁₀ H ₂₁	N.S.N	C ₁₀ H ₂₁
\rightarrow		C ₈ H ₁₇
C ₈ H ₁₇		
1	FF	(C) 18, 10

PNTz4T	PNT4T-2OD
n=10, m=12	n=8, m=10
CAS#1357999-90-6	CAS#1800244-09-0
OS0906	OS0090

C₈H₁₇ C₆H₁₃

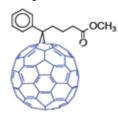
PPDT2FBT

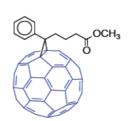
C₆H₁₃ CAS#1620673-07-5



PDCBT CAS#1609536-17-5 R2R004

Acceptors





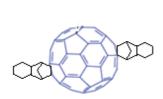
PC₆₀BM CAS#160848-21-5 OS0226



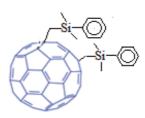
R2R003

PCE-11 PffBT4T-2OD R2R002

PC₆₀BPF 1010806-14-0 OS0140



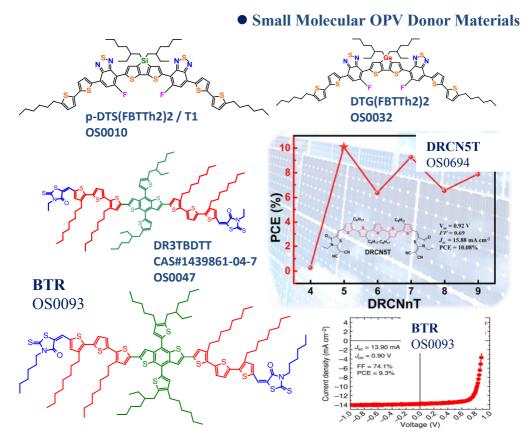
ICBA CAS#120461-57-1 OS0571



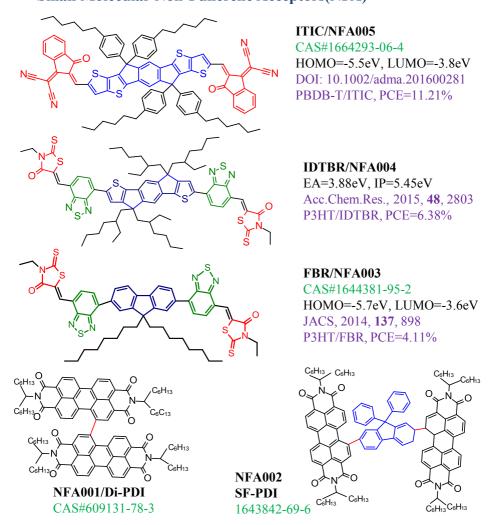
SIMEF CAS#169156-40-5 OS0405



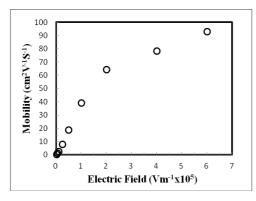
C₆₀-AC CAS#155116-19-1 OS0191



• Small Molecular Non-Fullerene Acceptors(NFA)

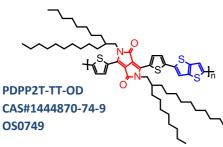


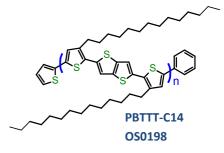
OTFT Materials



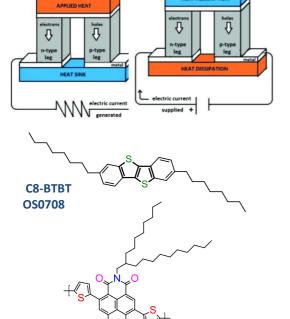
Semiconducting polymer with mobility approaching 100 cm²/V-s

The new released asymmetric regioregular conjugated polymer(PFT-100) is soluble in common organic solvents to form high oriented thin films by solution-processing techniques. The OTFT device fabricated from this polymer is thermal stable up to 400 °C and exhibits a stressed charge mobility which is approaching to 100 cm² V⁻¹s⁻¹.

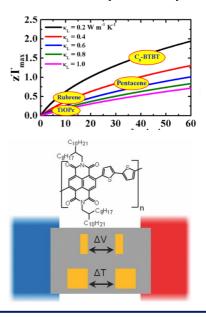




OTE Materials



From waste heat to power source, thermoelectric materials can turn a temperature difference into electricity by exploiting the flow of electrons from a warmer area to a cooler one. Organic thermoelectric (OTE) materials are of flexibility, cost effectiveness, and low thermal conductivity. 1-Material Inc is looking for your suggestions to further tune these OTE materials exampled below confidentially and reliably.



PNDI-2T P(NDI2OD-T2)

Custom synthesis only

1 = ONE (Organic Nano Electronic) Materials for these who understand quality

Reproducibility Matters, Organic Nano Electronic(ONE=1) Materials

Along with the growing interest in organic nano electronics, comes an increase in the inconsistencies associated with the performance of a given organic electronic material. Differences and non-reproducibility are apparent from one report to another, from one organization to another, and from one test to another even in the same laboratory and tested by the same scientist or engineer. Without a standard material, the reported data lose their significance for comparison and validation. Without a standard material, the industry loses its potential for scale-up and commercialization

1-Material Inc sees the need and the necessity to standardize Organic Nano Electronic (ONE=1) materials for organic thin film applications, and also understands the challenges to do so. With its accumulated experience in synthesis, purification, formulation and characterization, the company is extending its focus to processing and validation. Rather than to continuously pursue innovative structures, the company has dedicated itself to standardize these classic and most common studied materials, and to make them reliable and reproducible.

1-Material Inc is making a reliable and standard material, not just a pure chemical. A chemical is not a material unless its function is reproducibly performed against elapsed time. Our ONE materials have been constantly delivering world-record performance (PCE of polymer solar cells) in open scientific publications: 8.37%(2011) in Advance Materials, 9.24%(2012) in Nature Photonics, 10.61%(2015) in Nature Photonics. To support your research in OPV, OLED, OTFT and printing electronics in general, we are custom making ONE materials to your needs, confidentially and reproducibly.

Disclaimer:

1-Material is dedicated to provide the material according to the customer's needs. A few of the materials being promoted may be solely offered to certain customers for their research and development projects on a custom synthesis or a contract research basis. For the conditions and terms of our offer and service, please consult the disclaimer in our web: www.1-material.com



1-Material Inc

2290 Chemin St-Francois Dorval, Quebec H9P 1K2 Canada Tel: 514-684-6969

Fax: 514-684-8989