1-MATERIAL
Organic Nano Electronic

1-Material Inc
2290 Chemin St-Francois
Quebec, Canada H9P 1K2
Tel: 514-684-6969, Fax: 514-684-8989

π-electron Functional MATERIALS

Delocalized electrons in π-functional materials are similar to the electrons in valence bands of silicon and are of semiconducting characteristics. Due to their organic nature, they offer synthetic chemists a variety of opportunities to manipulate. We fine-tune these structures for effective conjugated length, HOMO/LUMO energy levels, absorption and emission spectra, coating/printing-ability and constant quality according to your needs, **confidentially & reliably.**

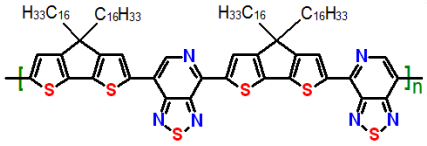
ONLY for laboratory R&D; NOT for commercial applications

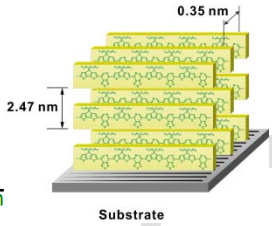
NEW

PCDTPT/OS0474
Nano Lett., 2014, 14, 2704

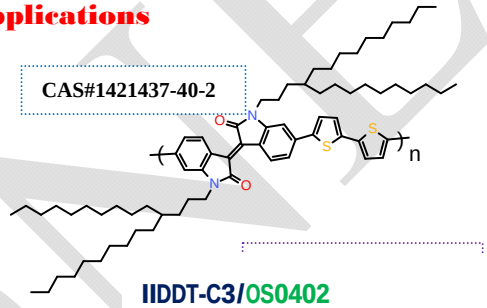
CAS#1334407-47-4

μ= 21.3($cm^2V^{-1}s^{-1}$)@ 80 μm
μ=36.3 ($cm^2V^{-1}s^{-1}$)@140 μm





CAS#1421437-40-2

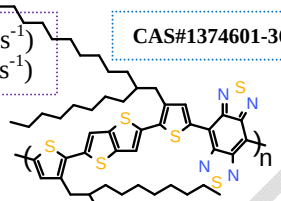


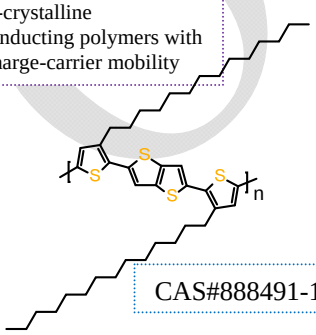
IIDDT-C3/OS0402
Adv. Mater., **2012**, 24, 6457

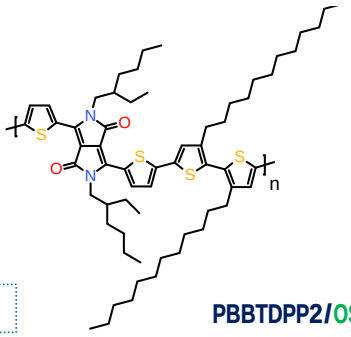
Liquid-crystalline semiconducting polymers with high charge-carrier mobility

μ_h= 1.0($cm^2V^{-1}s^{-1}$)
μ_e= 0.7($cm^2V^{-1}s^{-1}$)

CAS#1374601-36-1





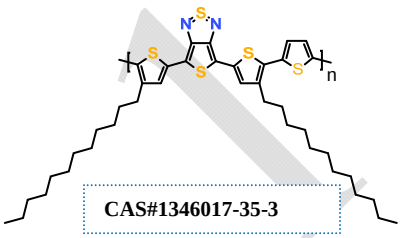


PBBTTT / OS0361
Adv. Mater., 2012, 24, 2186

CAS#888491-19-8

PBBTDPP2/OS0022
Adv. Mater., 2008, 20, 2556

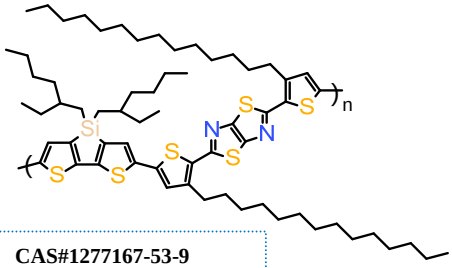
PBTTT-14/OS0198, Nature Mater, 2006, 5, 329



CAS#1346017-35-3

High-detectivity polymer photodetectors with spectral response from 300 nm to **1450 nm**

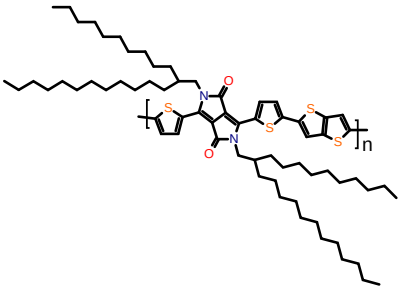
PDDTT/OS0353
Science, **2009,** 325(5948), 1665



CAS#1277167-53-9

BHJ solar cells with active layers > **200 nm** and fill factors > 60%

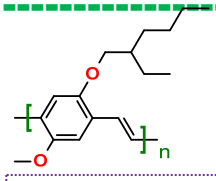
ZZ115(KP115)/OS0115
APL, 2011, 98(4), 043301



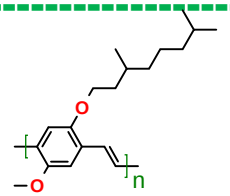
Efficient small bandgap polymer solar cells with high fill factors for **300 nm** thick films

DT-PDPP2T-TT/OS0300
Adv. Mater. **2013**, 23,3182

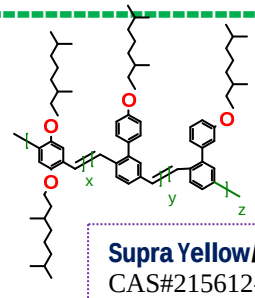
Organic Nano Electronic (ONE = 1) Materials for those who understand quality



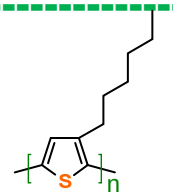
MEH-PPV/PL0368
CAS#138184-36-8



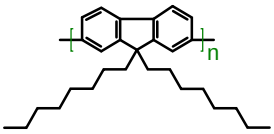
MDMO-PPV/PL0288
CAS#177716-59-5



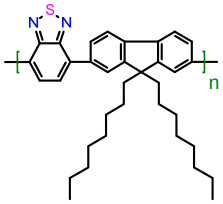
Supra Yellow/PL0434
CAS#215612-43-4



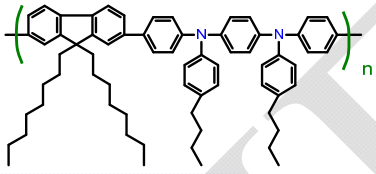
P3HT/PH0148
CAS#104934-50-1



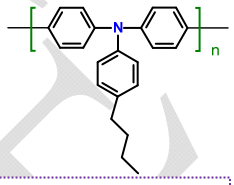
PFO/PL0388
CAS#123864-00-6



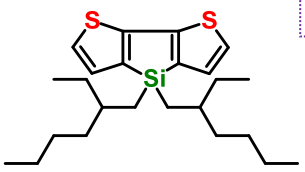
F8BT/OS0527
CAS#210347-52-7



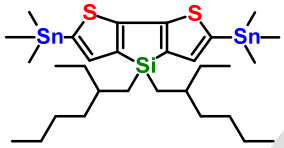
PFB/OS0286
CAS#223569-28-6



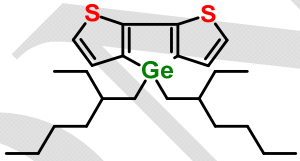
Poly-TPD/PH0299
CAS#472960-35-3



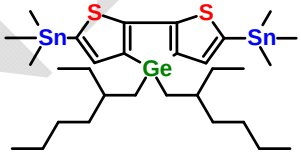
BT-Si-EH/IT0857
CAS#120762-85-7



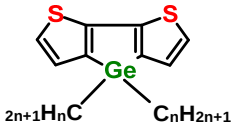
BT-Si-EH-TM/IT0068
CAS#1089687-06-8



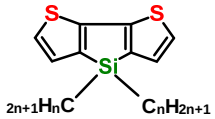
BT-Ge-EH/IT0314
CAS#1312574-31-4



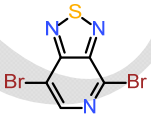
BT-Ge-EH-TM/IT0369
CAS#1309886-36-9



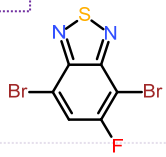
BT-Ge (n=6, 8, 12, 16)



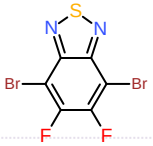
BT-Si-n (n=6, 8, 12, 16)



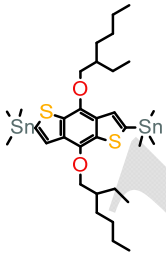
bb-PT /IT0272
CAS#333432-27-2



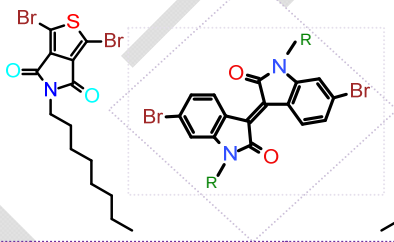
bb-FBT /IT0746
CAS#1347736-74-6



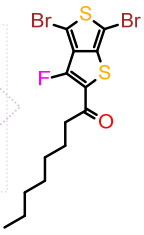
bb-F2BT /IT0532
CAS#1295502-53-2



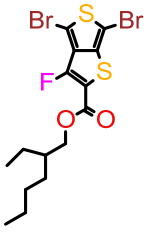
IT0788
CAS#1160823-78-8



IT0580
CAS#566939-58-0



IT0726
CAS#1202249-72-6



IT0387
CAS#1237479-38-7

Custom Synthesis & Contract Research

Your Structures
Your imaginations

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

Design with your imagination & build upon our experience

WWW.1-MATERIAL.COM