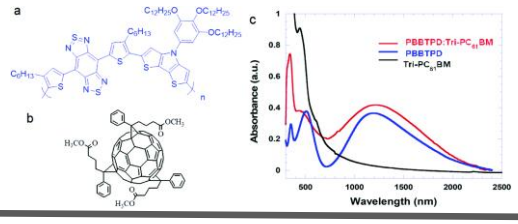
NIR-OPD and ST-OPV



1-MATERIAL INC

2290 Chemin St-Francois
Dorval, Quebec
H9P 1K2, Canada

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

Low-bandgap polymers

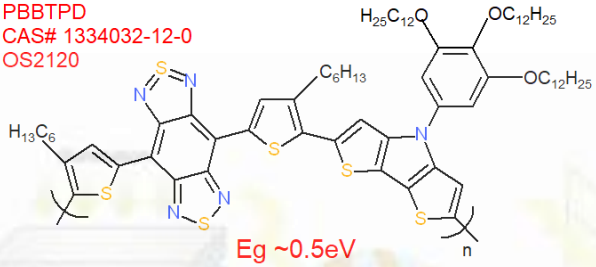
Eg <1.0 eV

Tailor-made for you

Listed below examples ONLY

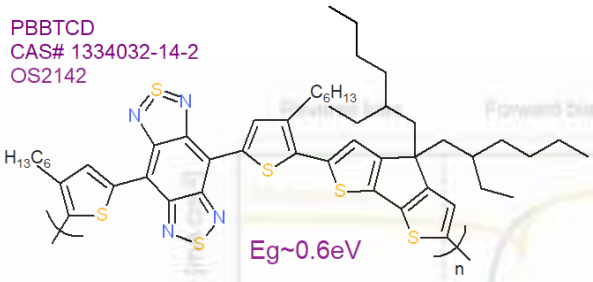
Low-bandgap (also called narrow-bandgap or small-bandgap) polymers are defined as those conjugated polymers with a bandgap below 1.5 eV. By fine-tuning absorption spectrum, solubility, and molecular orientation of these LBG polymers, we can **custom make** to meet your needs and specifications for your research in organic photovoltaics, biosensors, photodetectors, and thin-film transistors.

PBBTPD
CAS# 1334032-12-0
OS2120



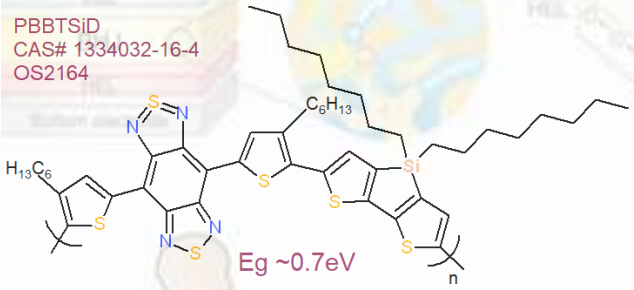
Eg ~0.5eV

PBBTCD
CAS# 1334032-14-2
OS2142



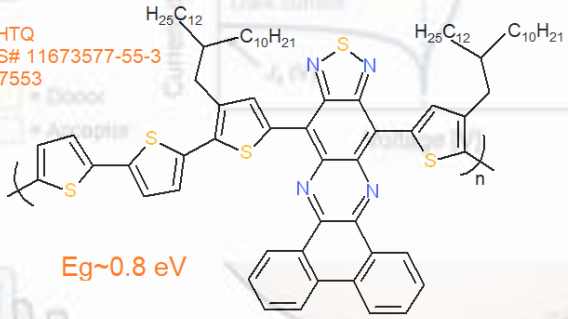
Eg~0.6eV

PBBTSiD
CAS# 1334032-16-4
OS2164



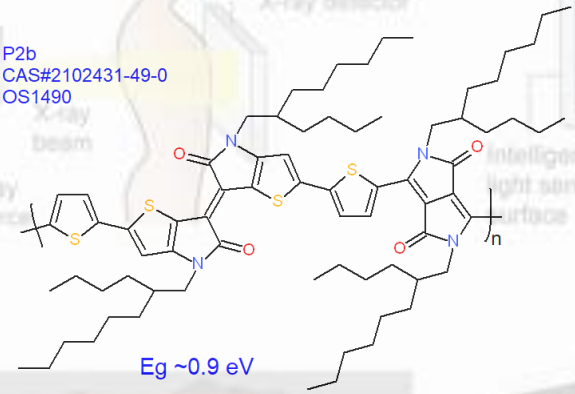
Eg ~0.7eV

PPHTQ
CAS# 11673577-55-3
OS7553



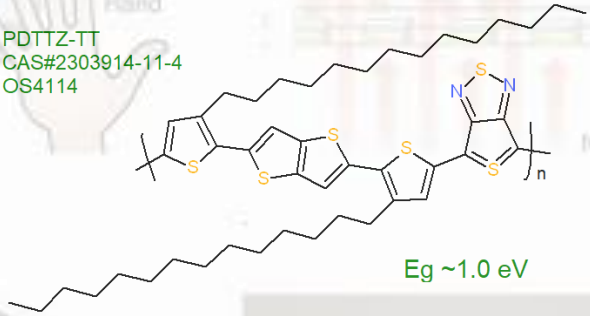
Eg~0.8 eV

P2b
CAS#2102431-49-0
OS1490



Eg ~0.9 eV

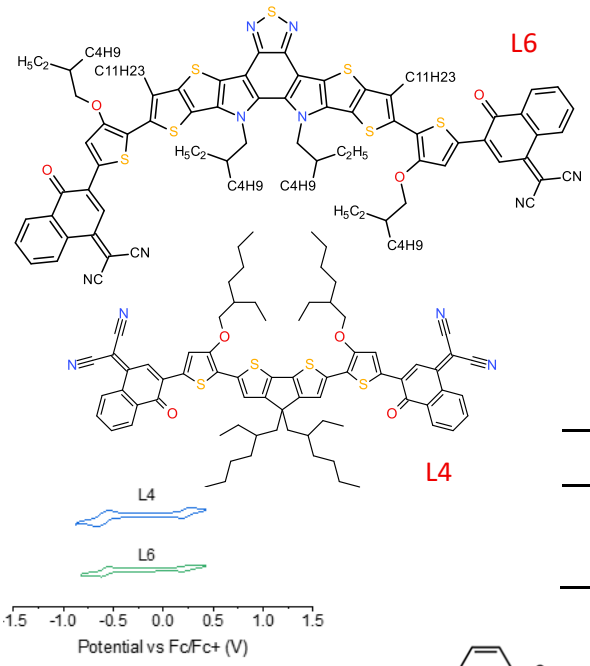
PDTTZ-TT
CAS#2303914-11-4
OS4114

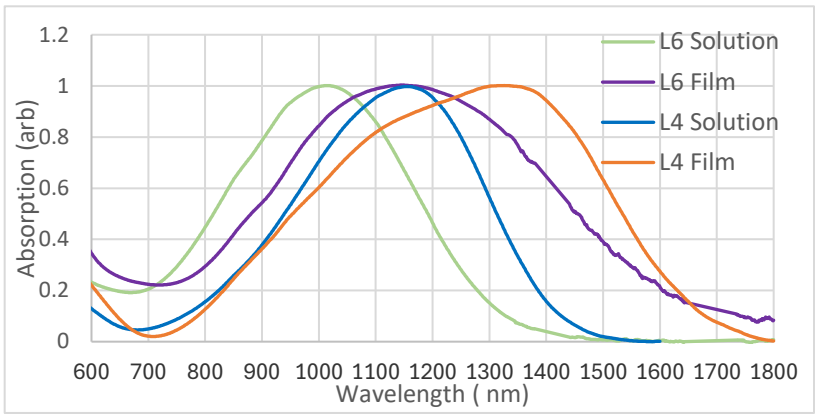


Eg ~1.0 eV

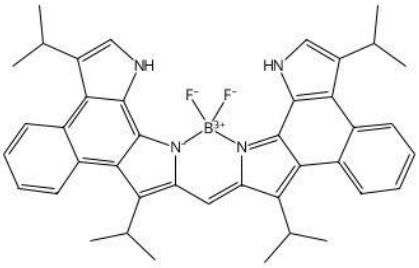
1-Material stands for Organic Nano Electronic (ONE=1) materials for OPV, OTFT, OLED, OTE, sensors, batteries, and printing electronics in general. Our goal is to provide the reproducible and standardized ONE materials to research society such that those undertaking research in the field are able to develop the technology free from the usual concerns of availability and reproducibility. We also offer custom synthesis and contract research to meet your specific needs timely, confidentially and reliably.

NIR-OPD and ST-OPV

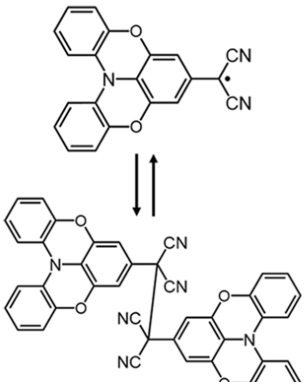




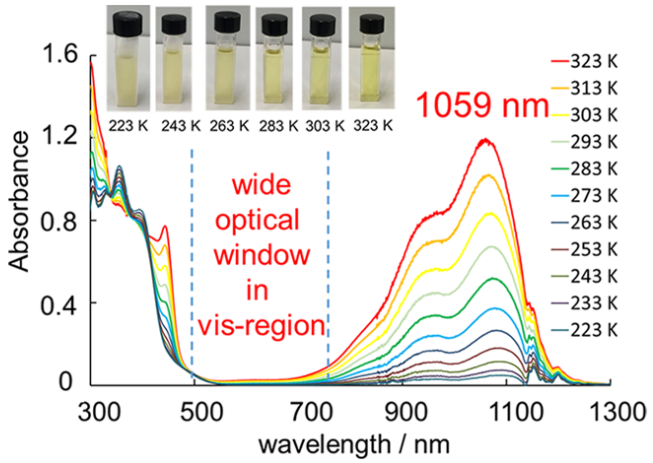
NFA	E_{HOMO} (eV)	E_{LUMO} (eV)	λ_{sol} (nm)	λ_{film} (nm)	λ_{onset} (nm)	E_g^{opt} (eV)
L4	-4.95	-4.29	1155	1326	1667	0.74
L6	-4.95	-4.29	1016	1147	1647	0.75

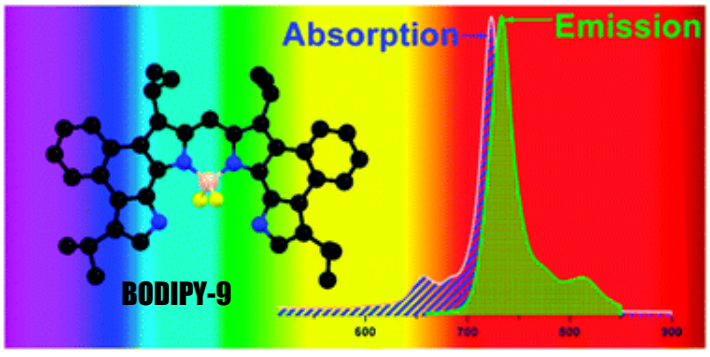


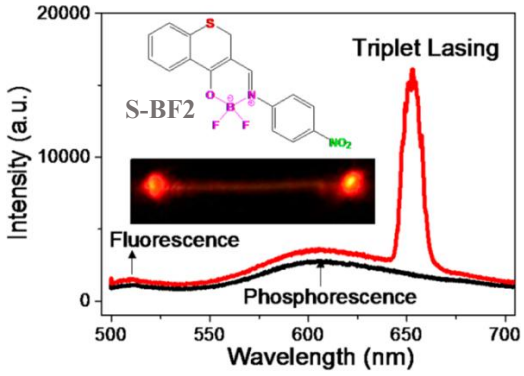
NIR2060
BODIPY-9



NIR1059
ODP* free radical







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