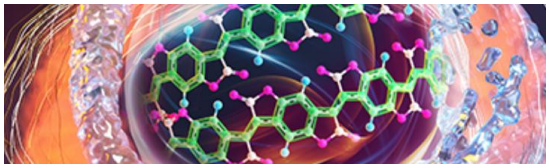
Solution processible n-Type super conducting polymer, n-PBFDO (n-PBDF)

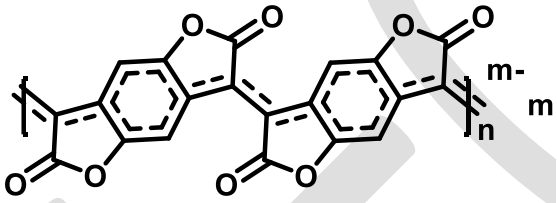


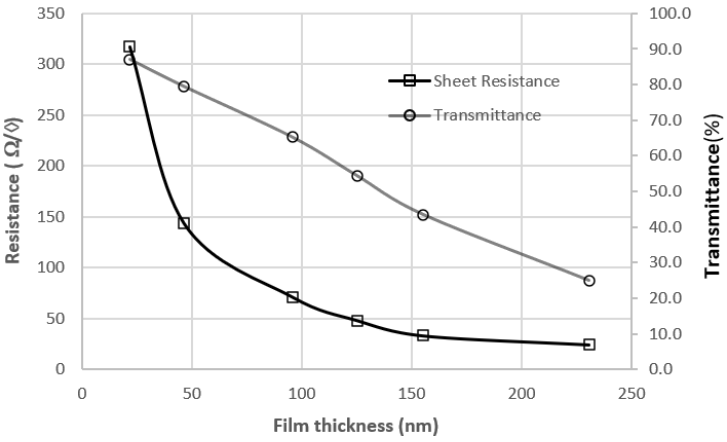
1-Material Inc
2290 Chemin St-Francois
Dorval, Quebec
H49P 1K2, Canada

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

Technical Data Sheet

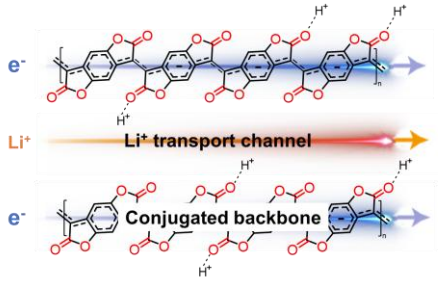
1M Material:	n-PBFDO polymeric ink
Common Name:	Poly(benzodifurandione) (PBFDO), n-PBFDO, n-PBDF
Potential Applications:	Printable n-Type superconductive solution for flexible electrodes, capacitors, electrochromic, batteries, energy storage, bioelectronics, OECT, OPV, OPD, EMS, and thermoelectric devices.





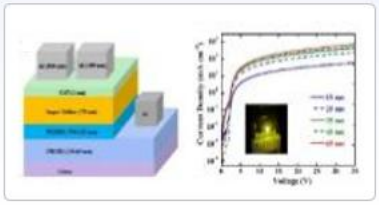
Appearance:	Black/brown liquid
Viscosity(mPa.s@25℃):	200~800 (Rotary Viscometer)
Solid content(mg/ml):	10 ± 2
Conductivity(S/cm):	~1500 (DMAc), ~800 (Alcohol)
Solvent:	N,N-Dimethylacetamide(DMAc) or Alcohol
Safety:	Please consult Material Safe Data Sheet (MSDS) before using

Solution processible n-Type super conducting polymer, n-PBFDO (n-PBDF)



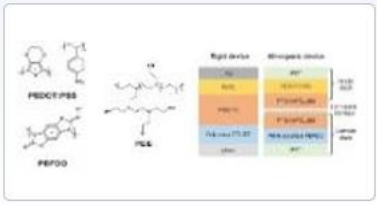
Z. Li, H. Tang, Y. Xu, F. Huang, *et al.* ***Nature***, 2026, 10.1038/s41586-026-10174-7.

Organic light-emitting diode



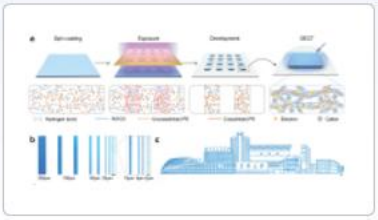
L. Ying, *et al.* ***npj Flexible Electronics*** 2024, 8, 38.

Organic solar cell



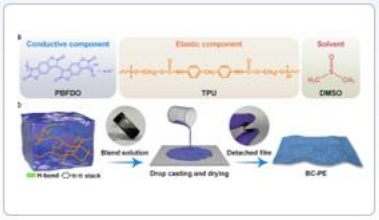
S. Fabiano, *et al.* ***Adv. Sci.*** 2024, 11, 2405676.

lithographic circuit



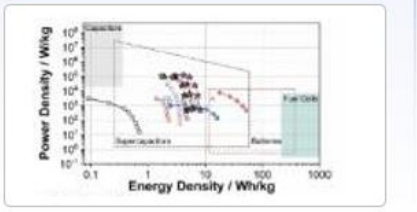
G. Wang, *et al.* ***Adv. Mater.*** 2025, 37, 2417452.

Flexible electronic skin



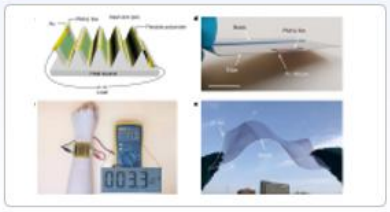
W. Yu, *et al.* ***Adv. Mater.*** 2025, 37, 2506511

Supercapacitor



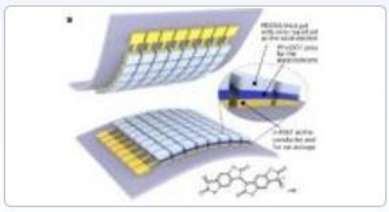
G. Bazan, *et al.* ***Adv. Mater.*** 2024, 36, 2410512.

Organic thermoelectric



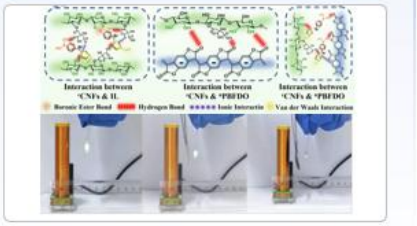
C. Di, *et al.* ***Nature*** 2024, 632, 528.

Electrochromism



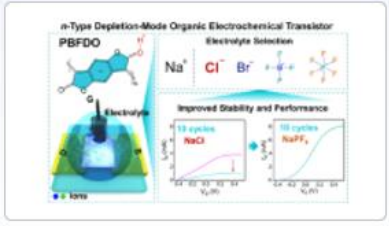
J. Mei, *et al.* ***Nat. Electron.*** 2024, 7, 1158.

Electromagnetic shielding



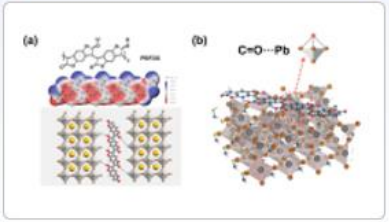
W. Li, *et al.* ***Nat Commun*** 2025, 16, 8608.

Electrochemical transistor



W. Leong *et al.* ***Chem. Mater.*** 2024, 36, 8639.

Perovskite photodetector



G. Dong *et al.* ***Small*** 2025, 21, 2406568

Disclaim: PBFDO materials are covered by patent (CN 115960338 B) and the trademark Jurong Co.,Ltd., 1M has been granted the right for these materials.