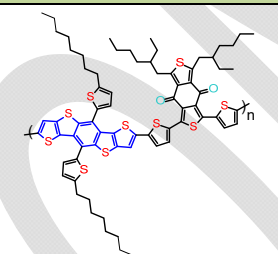
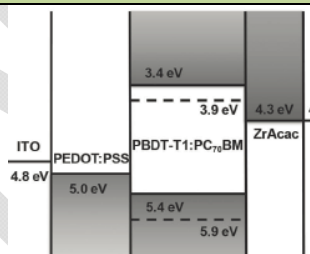
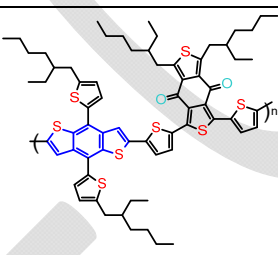
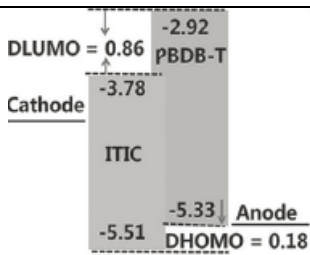
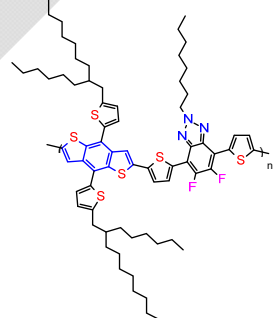
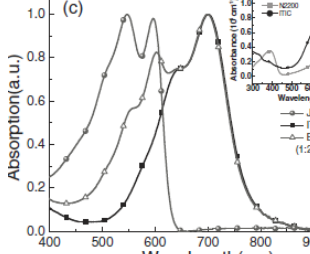
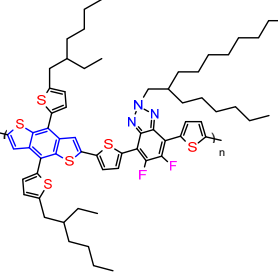
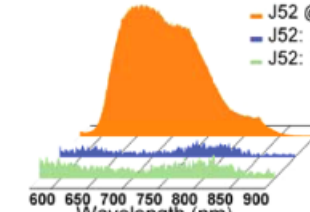
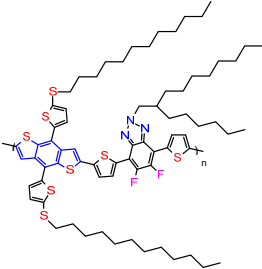
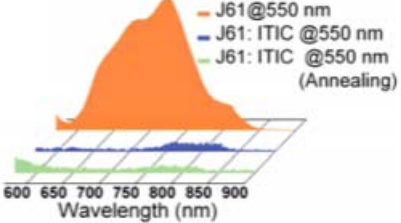
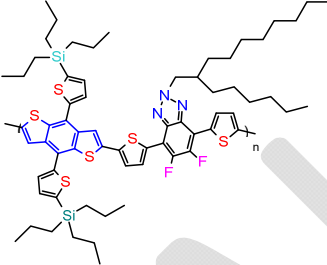
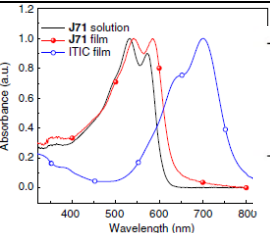
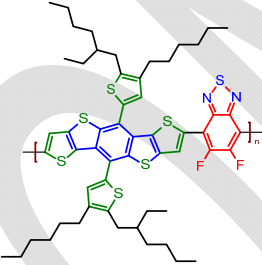
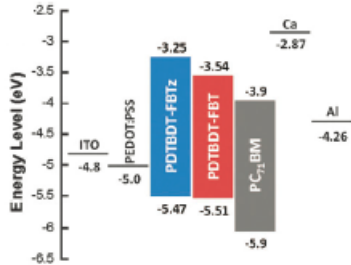
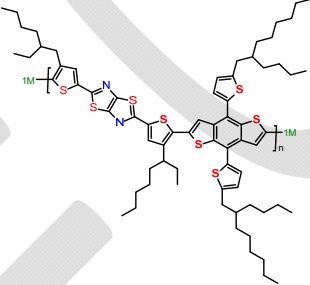
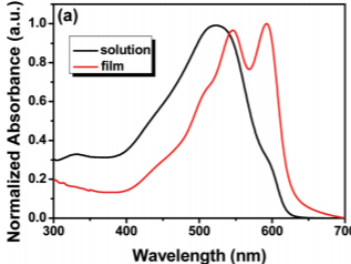
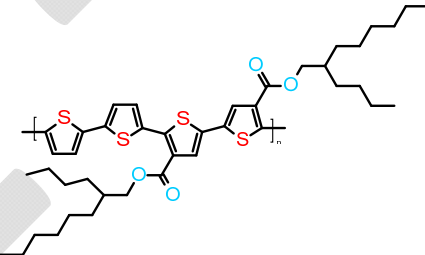
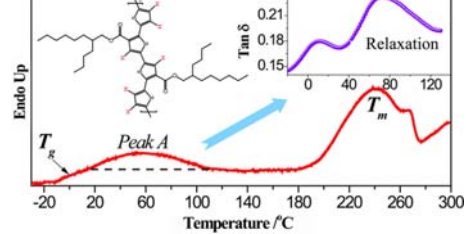
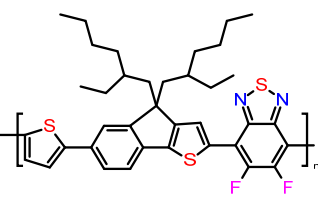
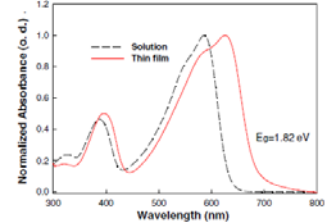


Non-Fullerene Acceptors (NFAs) with potentials to overcome high cost and poor stability of fullerene-based organic photovoltaics(OPV) are intensively explored recently. To fully realize such potentials, polymeric donors are to be critically selected for (1) right energy matching-up, (2) efficient charge transfer, (2) good morphology (3) easy synthesis and purification, (4) and proper solubility for green solvents suitable for large area processing. Listed below are a few polymeric donors compatible with NFAs, which we selected from open publications for your suggestions and validations.

Listing No.	Common Name CAS No.	Structure	Remarks
OS0919	PDBT-T1 CAS#1701403-91-9		
OS0804	PBDB-T CAS#145929-80-4		
OS0037	J51 CAS# 1393529-03-7		 HOMO = -5.26eV, LUMO = -3.08eV
OS0017	J52 CAS#1887136-01-7		 HOMO = -5.21eV, LUMO = -2.99 eV

(Polymeric Donors for Non-Fullerene Acceptors)

OS0039	J61 CAS#1887136-03-9		 <p>HOMO = -5.32eV, LUMO = -3.08eV</p>
OS0071	J71 CAS# NA		 <p>-3.24 eV -3.84 eV LUMO -5.40 eV J71 -5.51 eV ITIC HOMO</p>
OS0552	PDTBDT-FBT CAS# 1919055-55-2 Also available PDTBDT-FBTz		 <p>Energy Level (eV): ITO: -4.8, PEDOT:PSS: -5.0, PDTBDT-FBTz: -3.25, PDTBDT-FBT: -3.54, PC₇₁BM: -5.9, Al: -4.26, Ca: -2.87</p>
OS0345	PTZ1 CAS# 2029196-34-5		 <p>HOMO = -5.31eV, LUMO = -3.34eV</p>
OS0175 R2R004	PDCBT CAS#1609536-17-5		 <p>HOMO = -5.31eV, LUMO = -3.00eV</p>
OS0822	PIT2FBT CAS#2055007-82-2		 <p>HOMO = -5.54eV, LUMO = -3.66eV E_g = 1.82 eV</p>

Other polymeric donors for non-fullerene acceptors may also be interested, please contact info@1-material.com for more information.