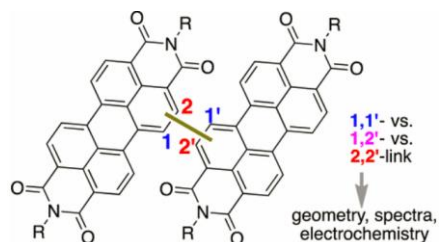
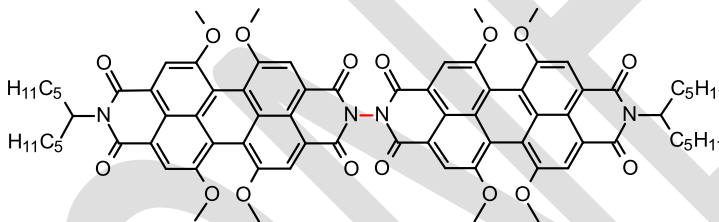
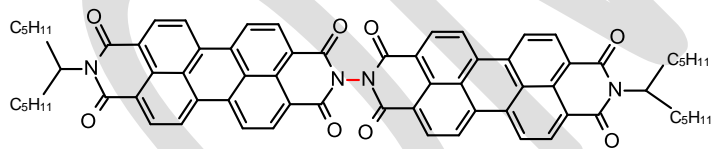
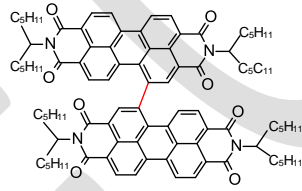
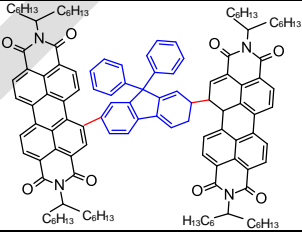
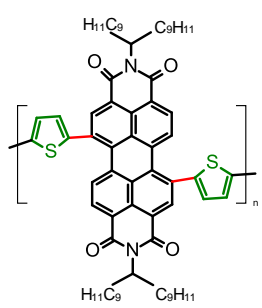
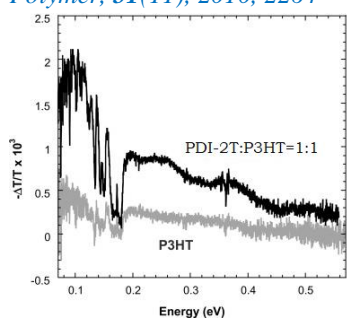


Organic Nano Electronic(ONE=1)materials for these who understand quality



Perylene diimides(PDIs) have attracted interest as dyes and pigments, electron-transporting semiconductors in organic field-effect transistors, two-photon-absorbing chromophores, fluorophores, and acceptors in photoinduced electron-transfer reactions for both fundamental studies and optical limiting. They have also been extensively used as light-harvesting electron-transporting materials in organic solar cells because of their comparable electron affinities to fullerenes, excellent photochemical stability, tunable electronic structure and properties. *ACS Omega*, 2017, 2 (2), pp 377–385

Listing No.	Common Name CAS No.	Structure	Reference and Remarks
OS0444	P-PDI-OMe		
OS0044	P-PDI /H-di-PDI CAS# 1706546-04-4		
OS0783	di-PDI / B-di-PDI CAS#1609131-78-3		<i>Chem. Communications</i> , 2014, 50(8), 1024 EA(eV) = 4.04, IP(eV)=6.13 HOMO(eV) = -6.1; LUMO(eV)=-4.0 Active layer: PCE-10/di-PDI PCE = 5.9% V _{oc} (V)=0.80; J _{sc} (mA/cm ²)=12.0; FF = 0.59
OS0696	SF-PDI CAS# 1643842-69-6		<i>Energy Environ.Sci.</i> , 2015, 8, 520 EA(eV) = 3.83, IP(eV)=5.90 HOMO(eV) = -5.9; LUMO(eV)=-3.8 Active layer: PCE-11/SF-PDI PCE = 6.3% V _{oc} (V)=0.98; J _{sc} (mA/cm ²)=10.7; FF = 0.57
OS0692	PDI-2T CAS#1189046-69-2		<i>Polymer</i> , 51(11), 2010, 2264 

Other PDI-derivatives can be custom made as well, please contact info@1-material.com for your needs.

(PDI-Family)

Reference:

Advanced Functional Materials, Volume: 25, Issue: 33, Pages: 5326-5332, First published: 24 July 2015, DOI: (10.1002/adfm.201501971)

