

Supporting Information

Effect of Side-Chain Substitution on the Physical and Optical Characteristics of TDPP-T Copolymers for Organic Semiconductors

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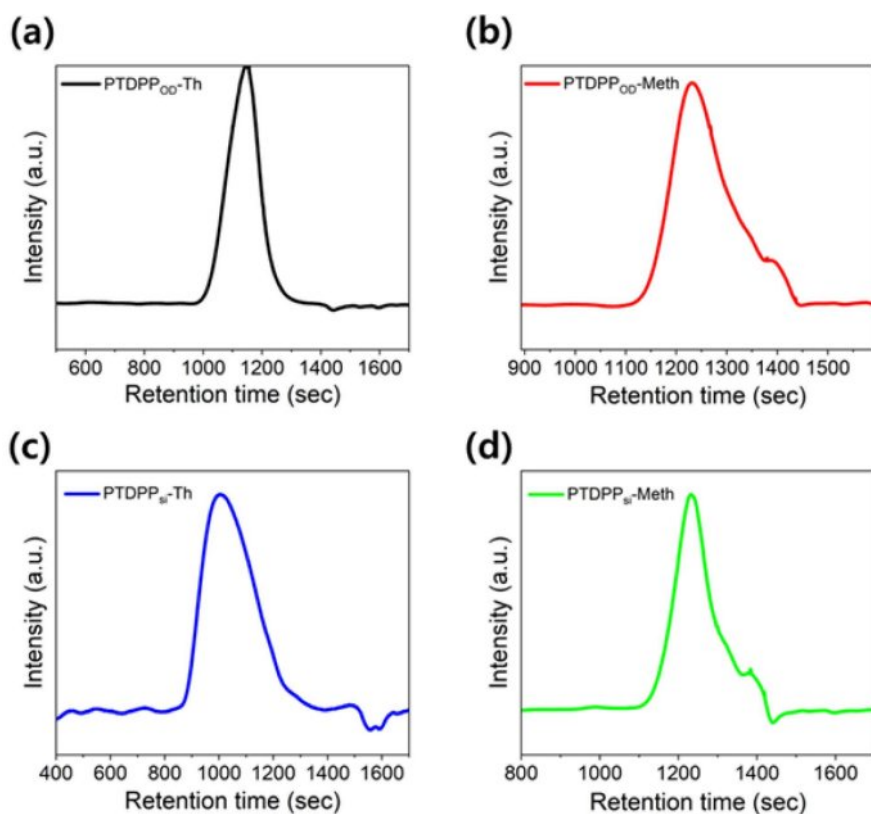


Figure S1. Gel permeation chromatography (GPC) results of (a) **PTDPP_{OD}-Th**, (b) **PTDPP_{OD}-Meth**, (c) **PTDPP_{SI}-Th** and (d) **PTDPP_{SI}-Meth**.

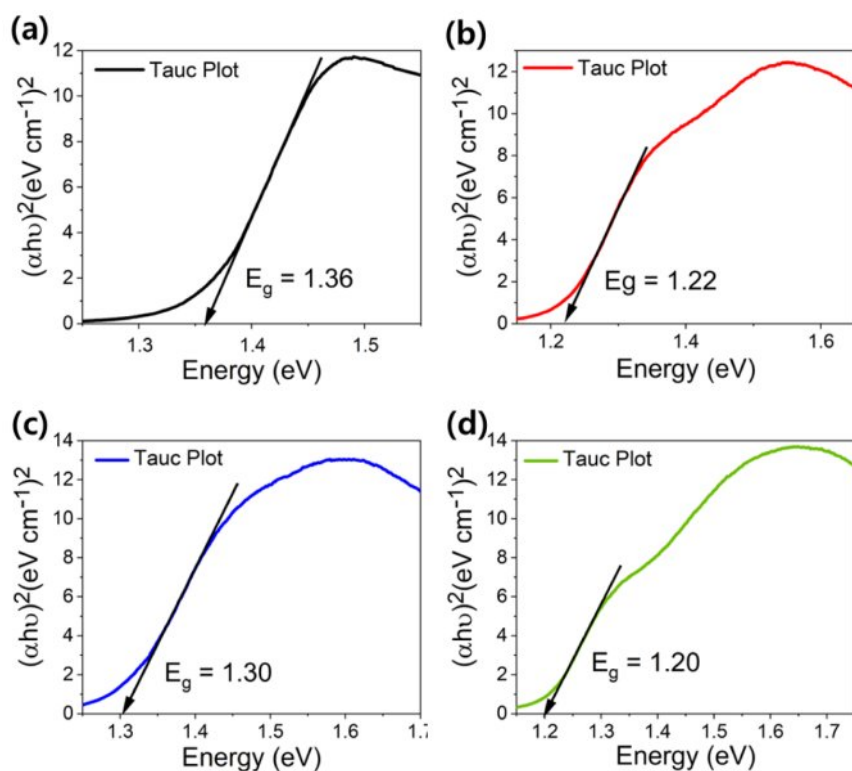


Figure S2. Tauc plot of (a) **PTDPP_{OD}-Th**, (b) **PTDPP_{OD}-Meth**, (c) **PTDPP_{SI}-Th** and (d) **PTDPP_{SI}-Meth**.

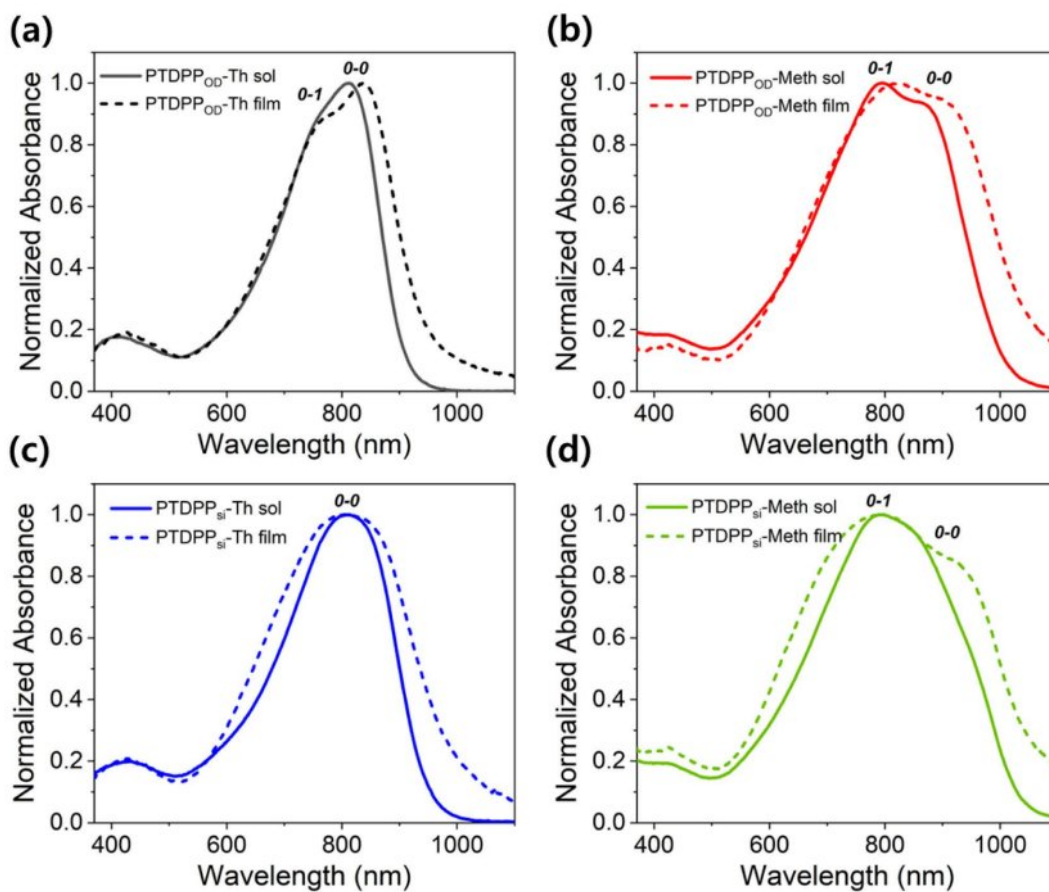


Figure S3. Normalized UV-Vis-NIR spectra of **PTDPP_{OD}-Th**, **PTDPP_{OD}-Meth**, **PTDPP_{si}-Th** and **PTDPP_{si}-Meth** in dilute chloroform solution and as thin films on a quartz plate (a), (b), (c) and (d), respectively.

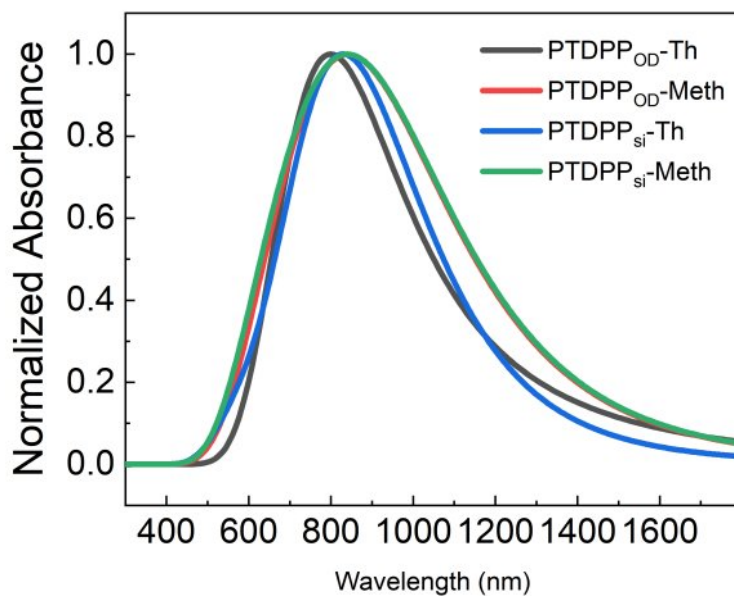


Figure S4. Normalized UV-Vis-NIR spectra of DFT.

Table S1. GPC results of **PTDPP_{OD}-Th**, **PTDPP_{OD}-Meth**, **PTDPP_{si}-Th** and **PTDPP_{si}-Meth**.

Polymer	M_n^a (g/mol)	M_w^b (g/mol)	PDI ^c	Retention time (min)
PTDPP_{OD}-Th	66,255	122,250	1.85	19.1
PTDPP_{OD}-Meth	14,215	20,459	1.44	20.5
PTDPP_{si}-Th	173,580	1,080,000	6.22	16.75
PTDPP_{si}-Meth	16,666	22,838	1.37	20.53

^a Number-average molecular weight (M_n). ^b Weight-average molecular weight (M_w). ^c Polydispersity index (M_w/M_n) determined by means of GPC with THF as an eluent on the basis of polystyrene calibration.