Supporting information for

Photophysical and photovoltaic properties of truxene-functionalized conjugated polymer–fullerene supramolecules

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1. $^{13}$C NMR spectra of M1, M3 and M4

Fig. S1 $^{13}$C NMR spectrum of M1.

Fig. S2 $^{13}$C NMR spectrum of M3.
Fig. S3 $^{13}$C NMR spectrum of M4.

2. FABMS spectra of M1, M3 and M4

Fig. S4 FABMS spectrum of M1.
Fig. S5 FABMS spectrum of M3.

Fig. S6 FABMS spectrum of M4.
3. Typical optimized structure, HOMO, and LUMO

Fig. S7 The optimized structure of D-A dimer in P1; the number is the dihedral angle in rectangular.

Fig. S8 The optimized structure of D-A dimer in P2; the number is the dihedral angle in rectangular.
Fig. S9 HOMO and LUMO orbitals for P1 and P2.