

Supplementary Information

Aggregation-induced emission of triphenylamine substituted cyanostyrene derivatives

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Table S1 Electrochemical properties of **G1**, **G1-N** and **G2**.

Figure S1 ^1H NMR (400 MHz) spectrum of **G1**.

Figure S2 ^{13}C NMR (100 MHz) spectrum of **G1**.

Figure S3 MALDI/TOF MS spectrum of **G1**.

Figure S4 ^1H NMR (400 MHz) spectrum of **G1-N**.

Figure S5 ^{13}C NMR (100 MHz) spectrum of **G1-N**.

Figure S6 MALDI/TOF MS spectrum of **G1-N**.

Figure S7 ^1H NMR (400 MHz) spectrum of **G2**.

Figure S8 ^{13}C NMR (100 MHz) spectrum of **G2**.

Figure S9 MALDI/TOF MS spectrum of **G2**.

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Table S1 Electrochemical properties of **G1**, **G1-N** and **G2**.

Molecule	E_{HOMO} ^[a] [eV]	E_{0-0} ^[b] [eV]	E_{LUMO} ^[c] [eV]
G1	-5.52	2.74	-2.78
G1-N	-5.52	2.42	-3.10
G2	-4.91	2.56	-2.35

^a E_{HOMO} values were measured in CH_2Cl_2 with 0.1M tetrabutylammonium tetrafluoroborate (TBABF_4) as the electrolyte (working electrode: Pt; reference electrode: SCE, calibrated with ferrocene/ferrocenium (Fc/Fc^+) as an external reference; counter electrode: Pt wire).

^b E_{0-0} values were estimated from the edge of the absorption spectra in THF.

^c E_{LUMO} values were estimated by subtracting E_{0-0} from the HOMO.

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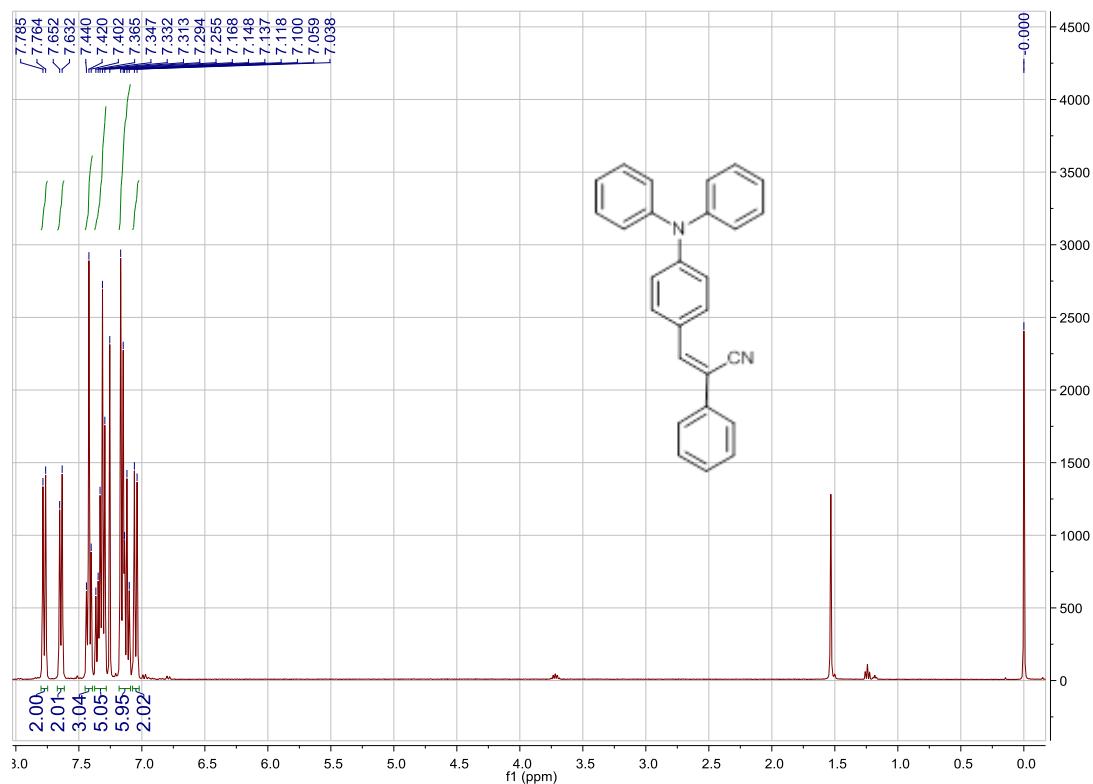


Figure S1 ¹H NMR (400 MHz) spectrum of G1.

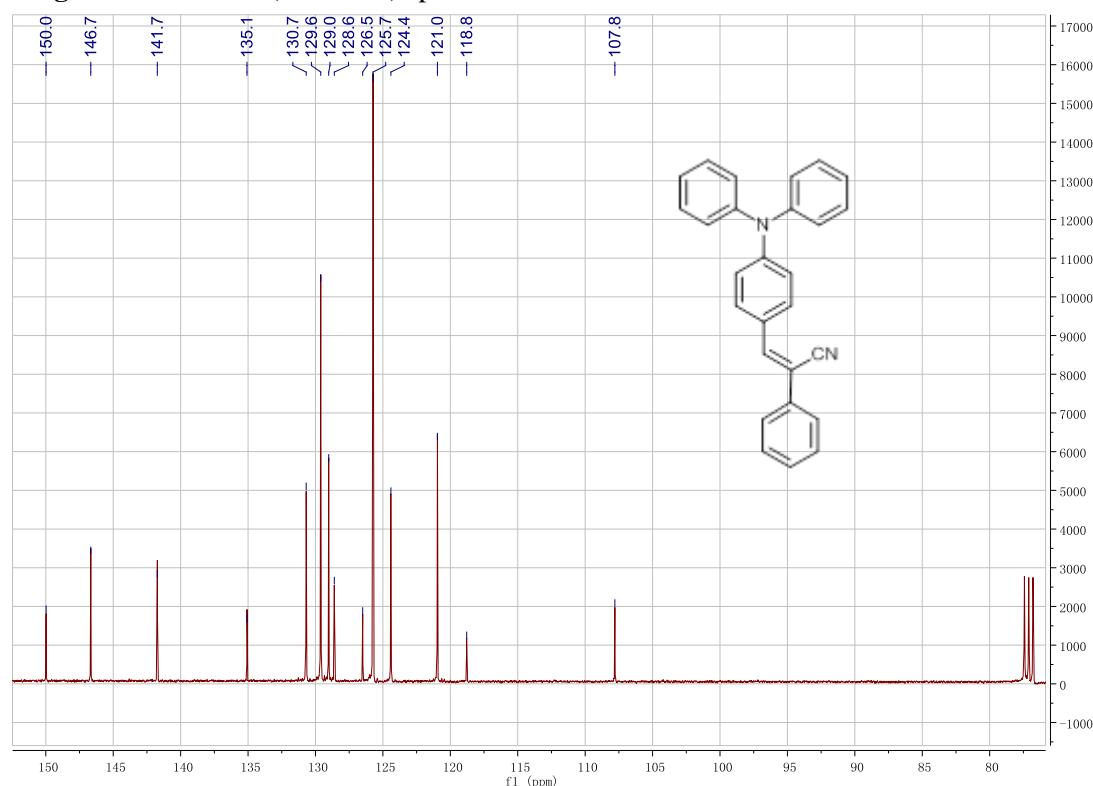


Figure S2 ¹³C NMR (100 MHz) spectrum of G1.

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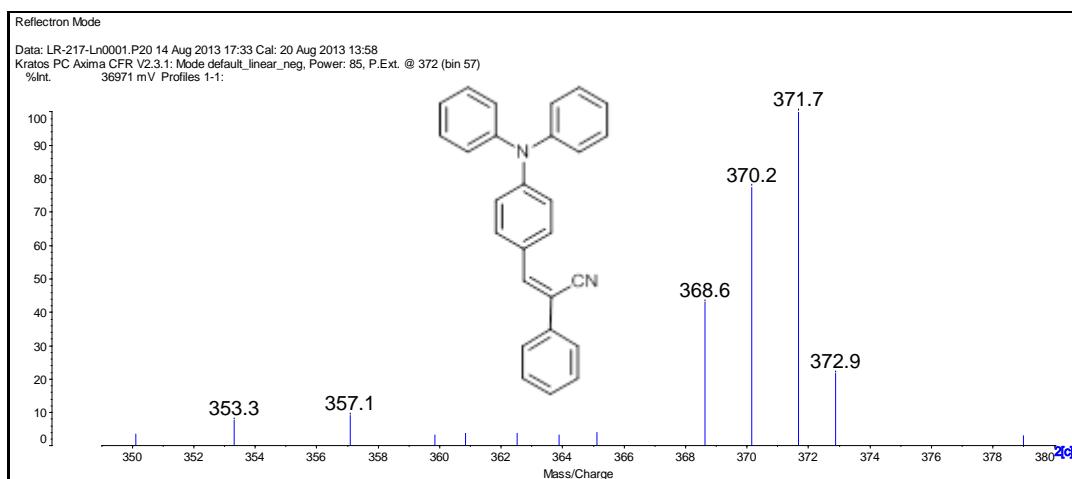


Figure S3 MALDI/TOF MS spectrum of **G1**.

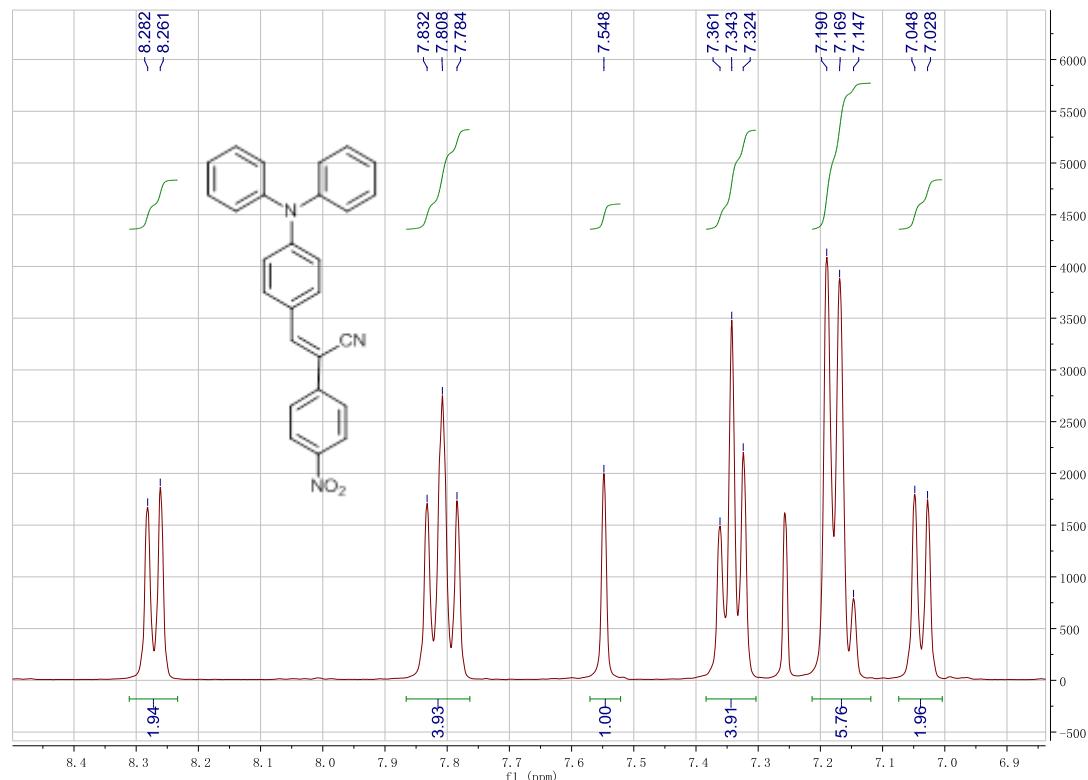


Figure S4 ^1H NMR (400 MHz) spectrum of **G1-N**.

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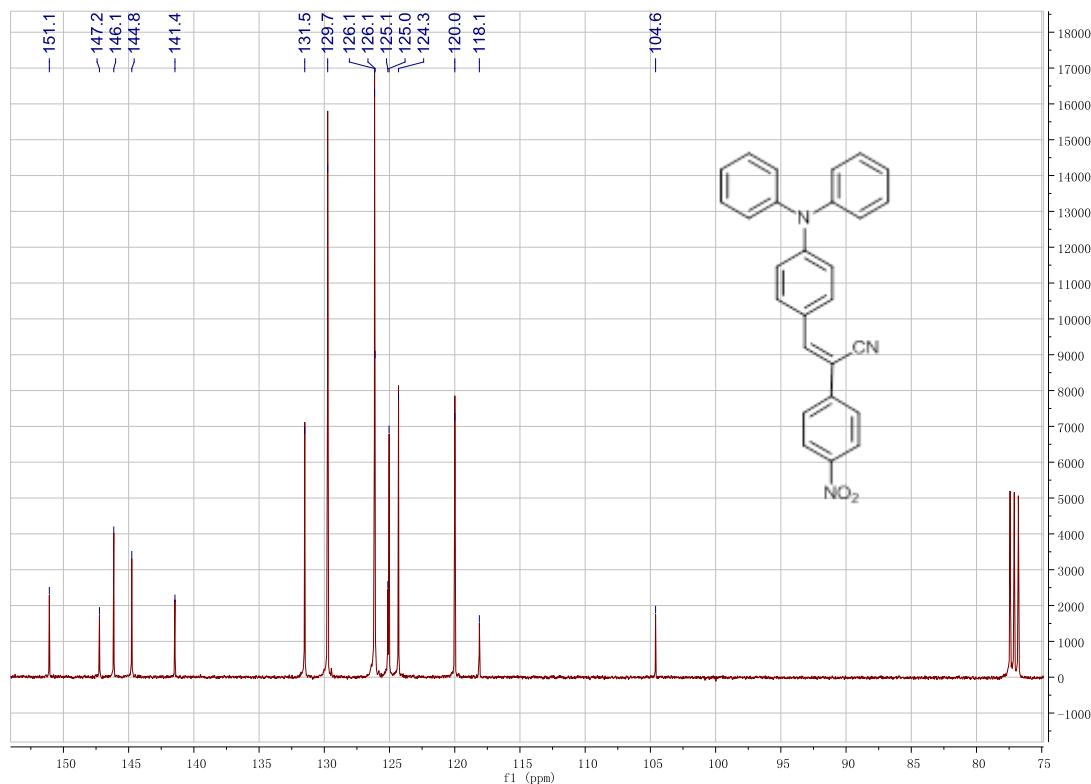


Figure S5 ¹³C NMR (100 MHz) spectrum of G1-N.

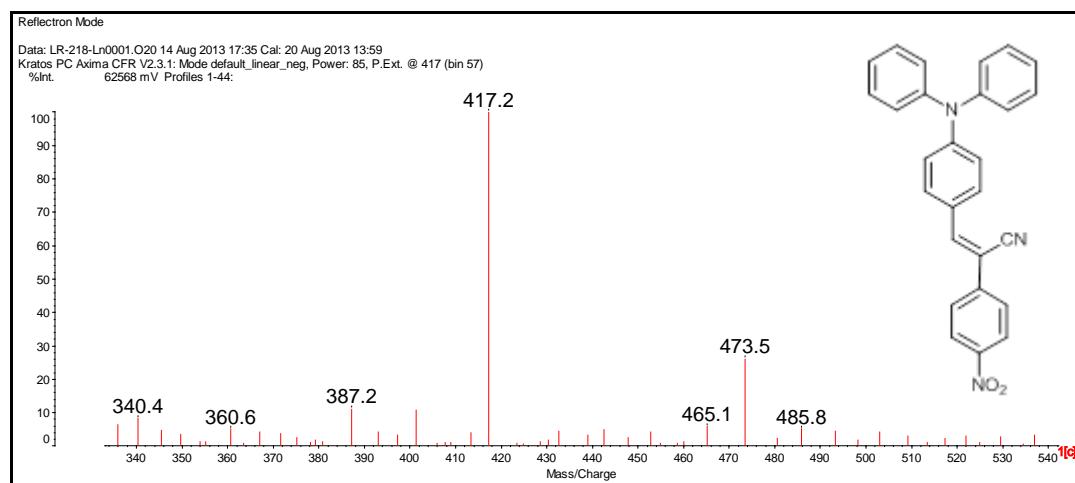


Figure S6 MALDI/TOF MS spectrum of G1-N.

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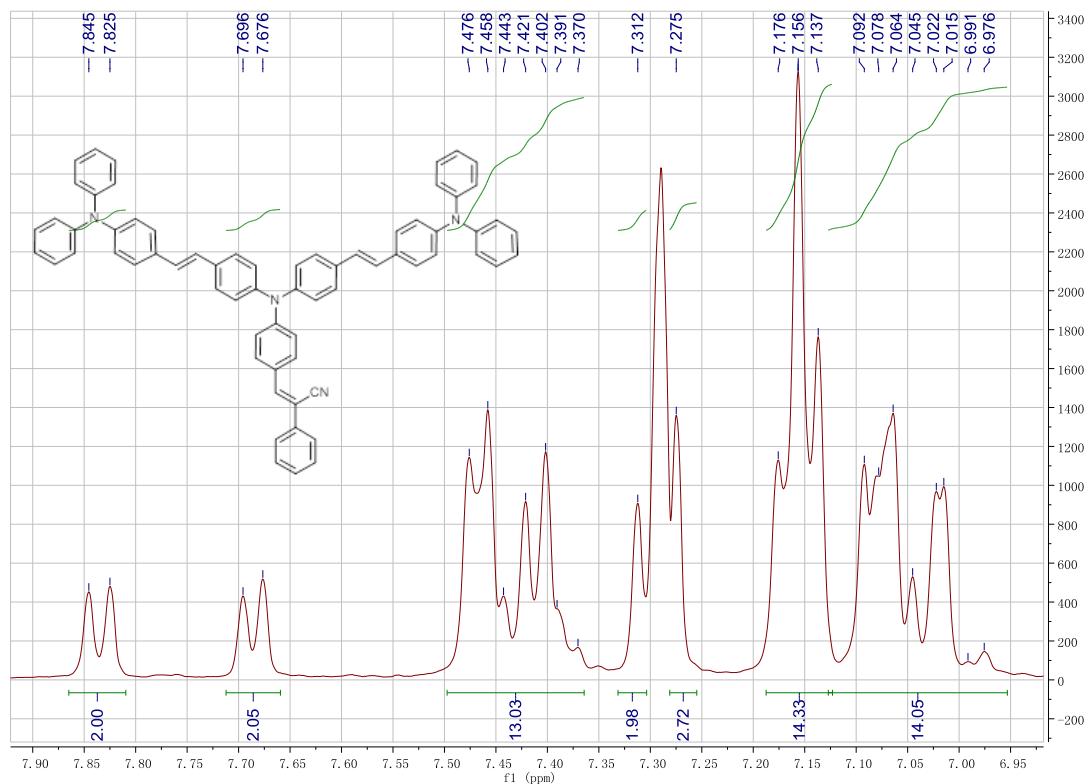


Figure S7 ¹H NMR (400 MHz) spectrum of G2.

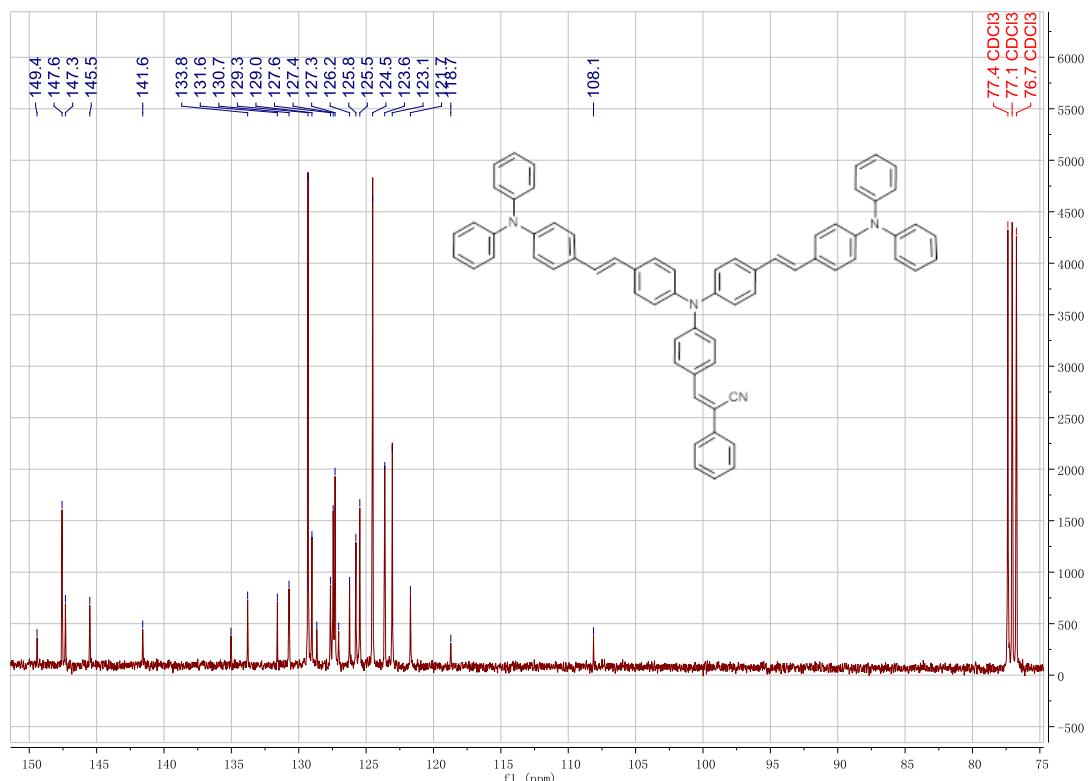


Figure S8 ¹³C NMR (100 MHz) spectrum of G2.

Electronic Supplementary Material (ESI) for New Journal of Chemistry

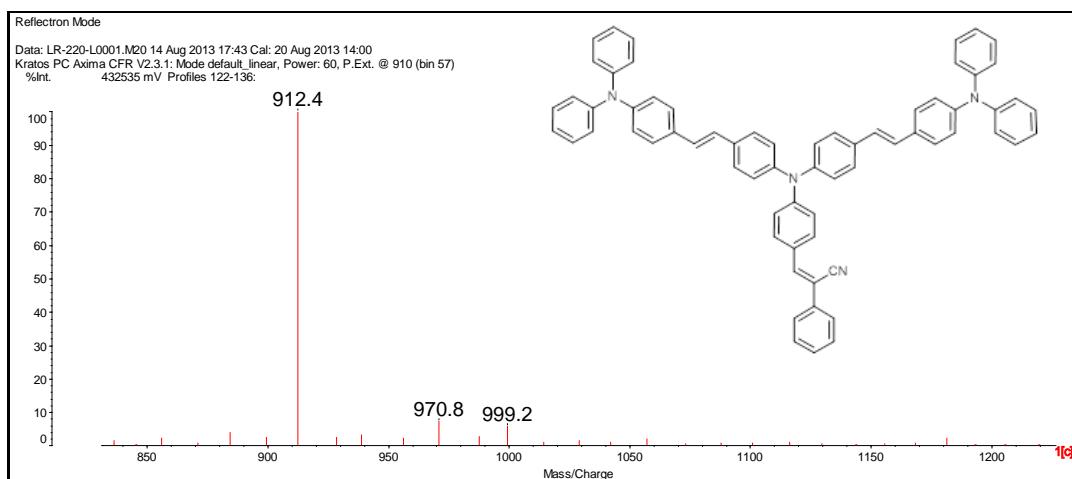


Figure S9 MALDI/TOF MS spectrum of **G2**.