

Electronic Supplementary Information

**Synthesis and applications of novel triphenylamine dyes with donor-donor-
(bridge)-acceptor structure for organic dye-sensitized solar cells**

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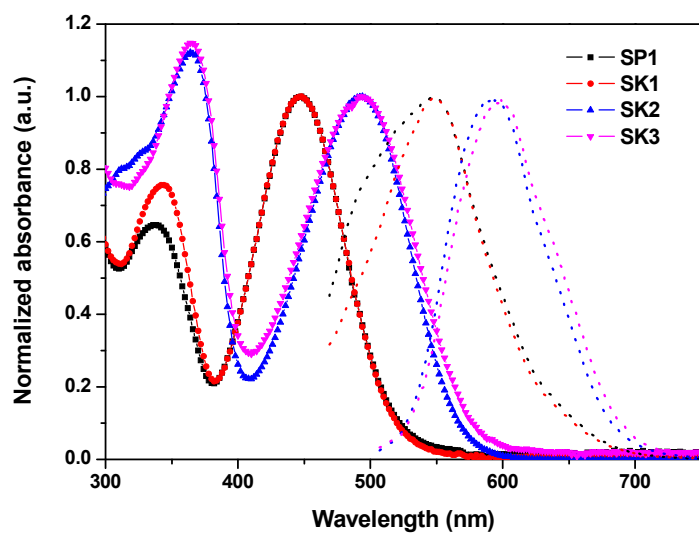


Figure S1. The normalized absorption (solid line) and emission (dashed line) spectra of **SP1** and **SK1-3** in CH_2Cl_2 ($5 \times 10^{-6}\text{M}$).

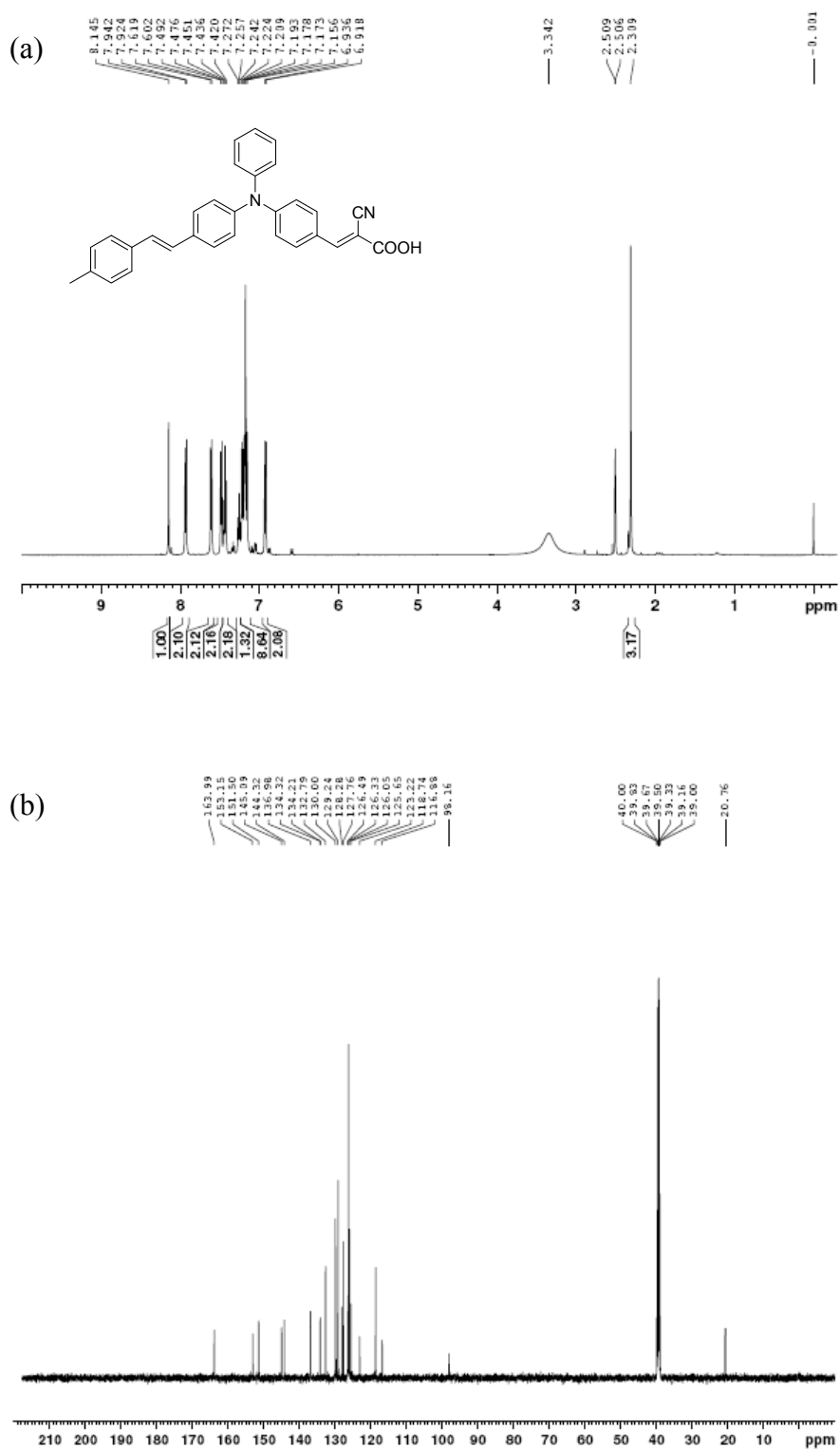


Figure S2. ^1H NMR (a) and ^{13}C NMR (b) spectra of **SP1** (DMSO- d_6 , 500MHz).

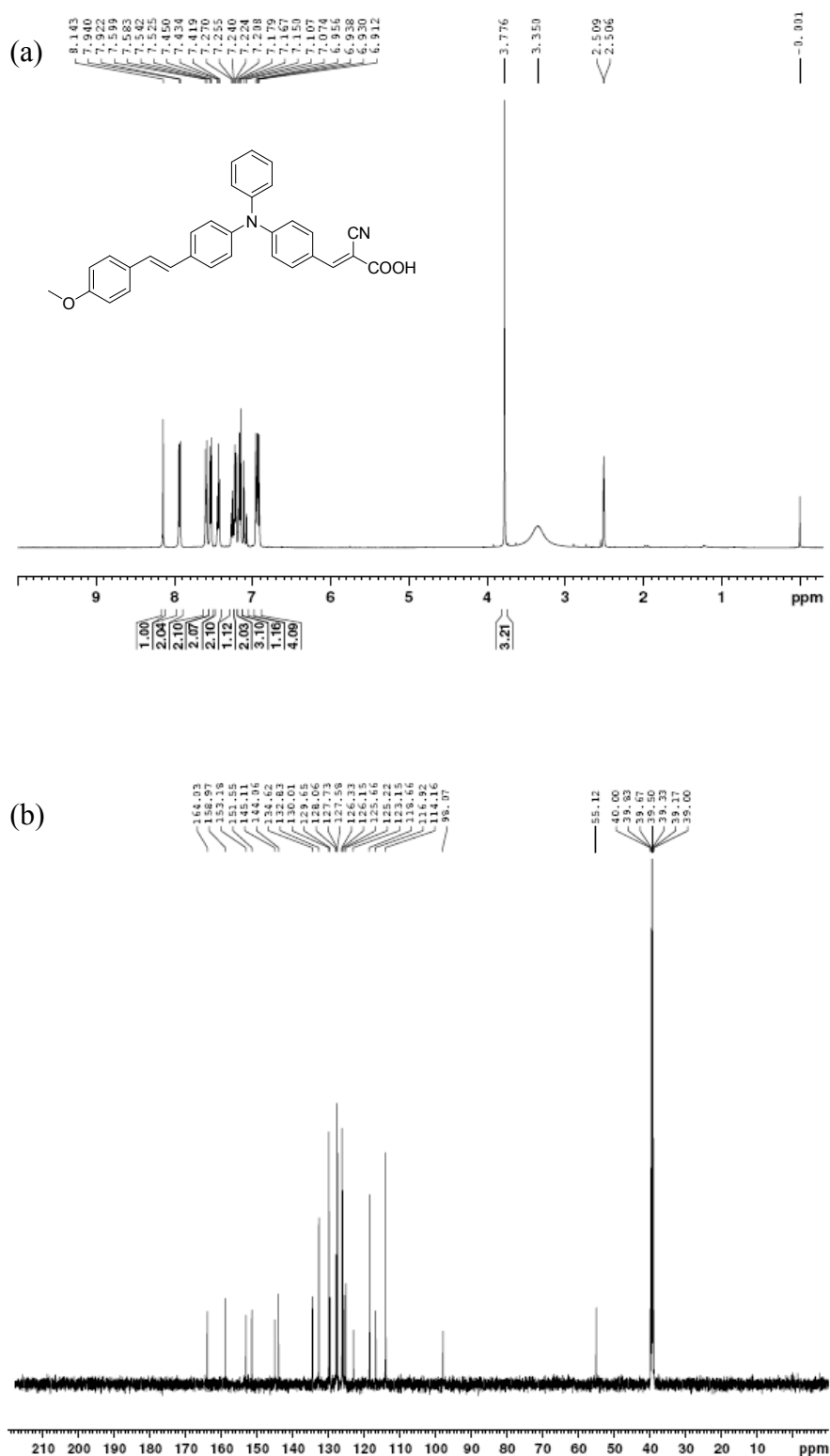


Figure S3. ¹H NMR (a) and ¹³C NMR (b) spectra of **SK1** (DMSO-d₆, 500MHz).

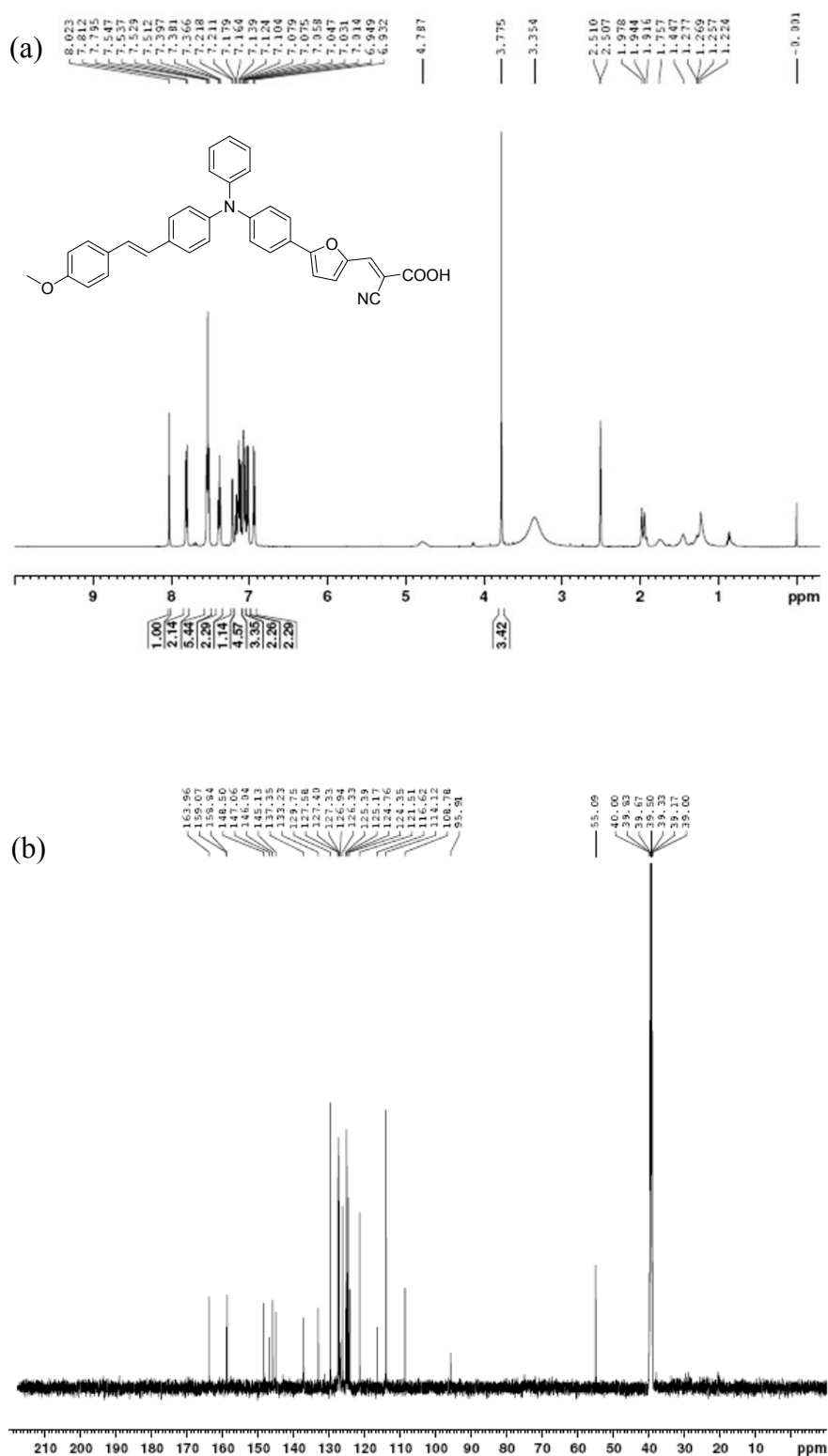


Figure S4. ^1H NMR (a) and ^{13}C NMR (b) spectra of **SK2** (DMSO- d_6 , 500MHz).

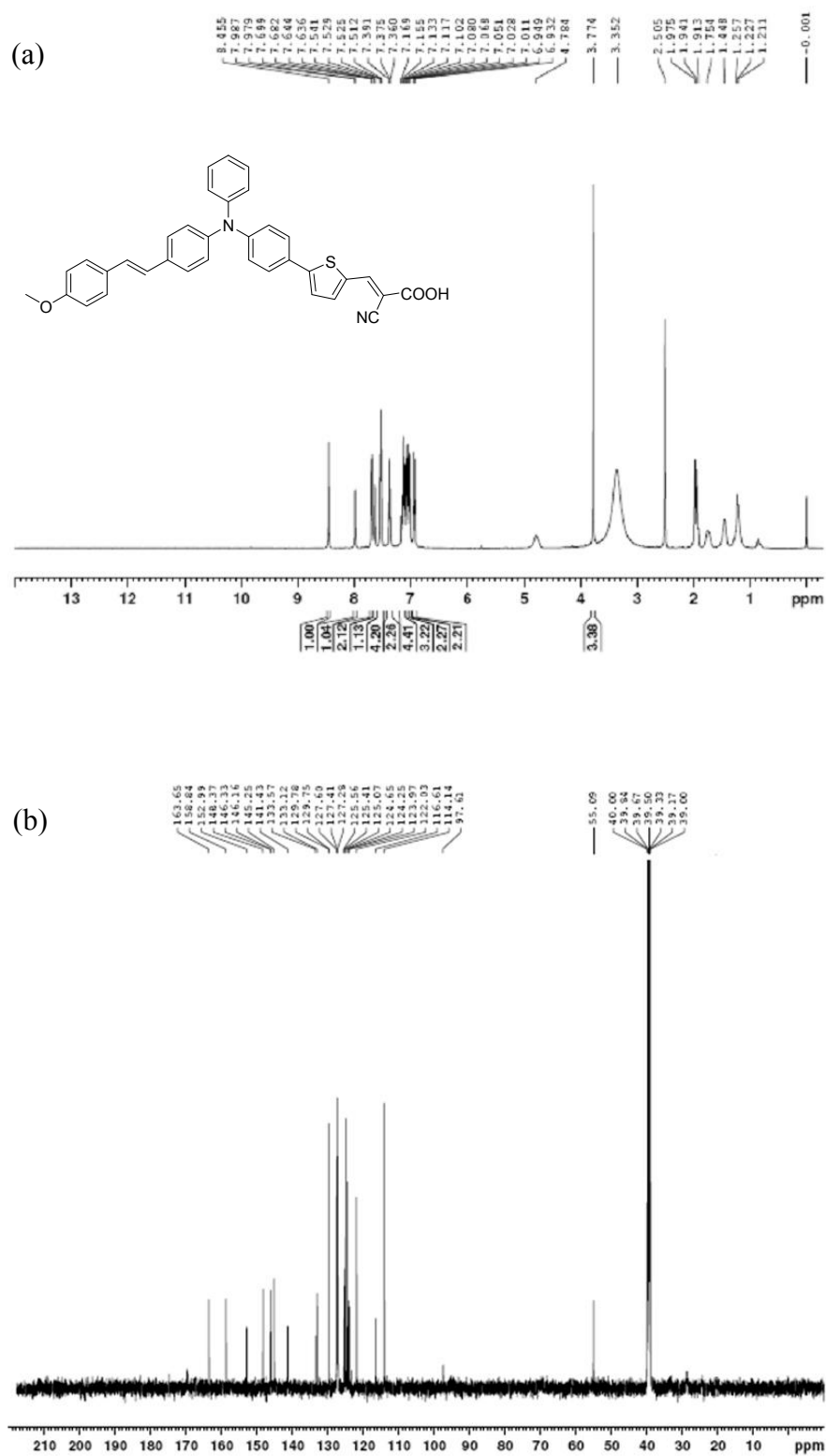


Figure S5. ¹H NMR (a) and ¹³C NMR (b) spectra of **SK3** (DMSO-d₆, 500MHz).