

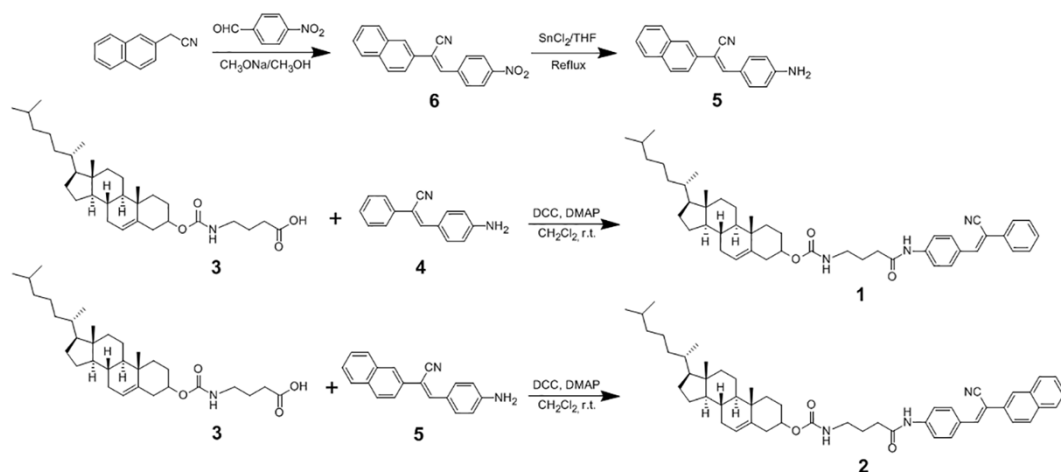
Supporting Information

Efficient phase-selective gelator for aromatic solvents recovery based on cyanostilbene amide derivative

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Scheme S1 Synthesis route of cyanostilbene amide derivatives 1 and 2.

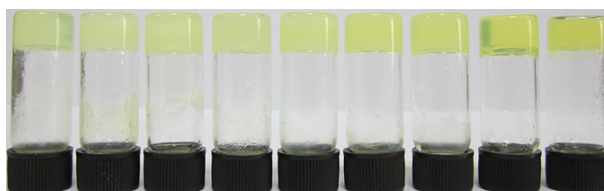


Fig. S1 Photographs of the gels of 2 in different solvents under daylight. From left to right: toluene, *p*-xylene, xylene, mesitylene, *p*-chlorotoluene, bromobenzene, chlorobenzene, 1,2-dichlorobenzene, chloroform.

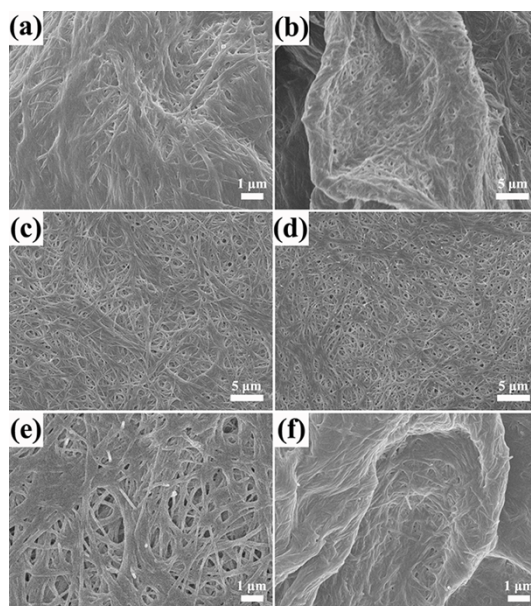


Fig. S2 SEM images of 2 xerogels formed from (a) toluene, (b) xylene, (c) *p*-chlorotoluene, (d) chlorobenzene, (e) bromobenzene and (f) 1,2-dichlorobenzene.

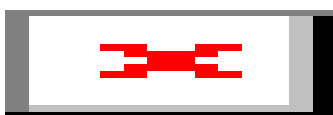


Fig. S3 Phase-selective gelation of **2** from different the ratio of toluene and water, (a) 0.4 mL : 2 mL, (b) 0.4 mL : 4 mL, (c) the toluene gel of **2**.

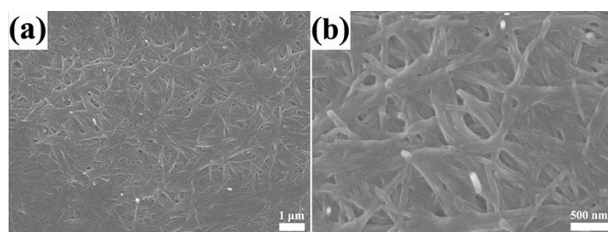


Fig. S4 SEM images of **2** xerogel formed from *p*-xylene via a room-temperature phase-selective gelation process.

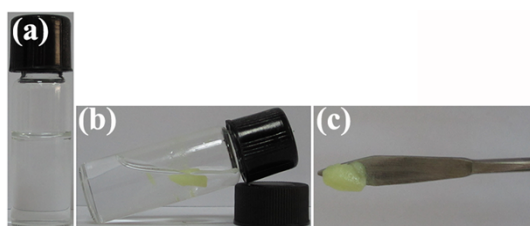


Fig. S5 Phase-selective gelation of **2** for a little aromatic solvents at room temperature, (a) 0.2 mL xylene and 4 mL water mixture, (b) the inclined tube after selective gelation after upon addition of **2**, (c) the xylene gel of **2** scooped out with a spatula.

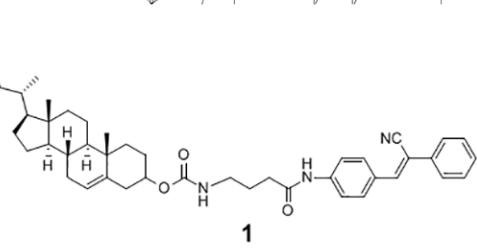


Fig. S6 ^1H NMR (500 MHz) spectrum of compound 1 in CDCl_3 .

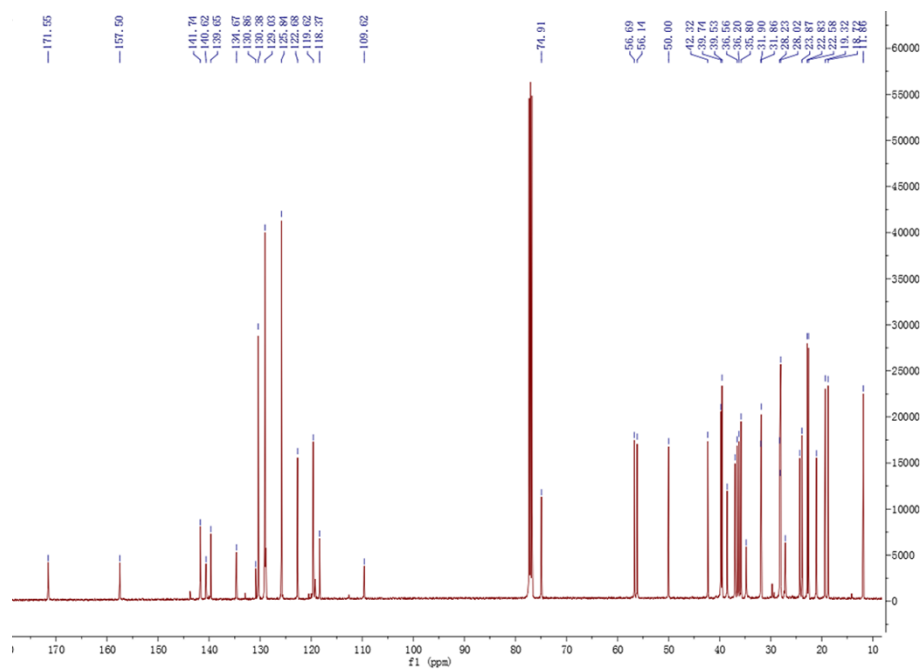


Fig. S7 ^{13}C NMR (125 MHz) spectrum of compound 1 in CDCl_3 .

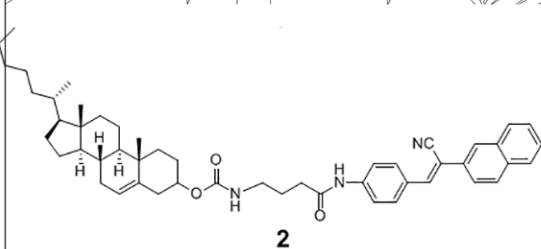


Fig. S8 ^1H NMR (500 MHz) spectrum of compound 2 in CDCl_3 .

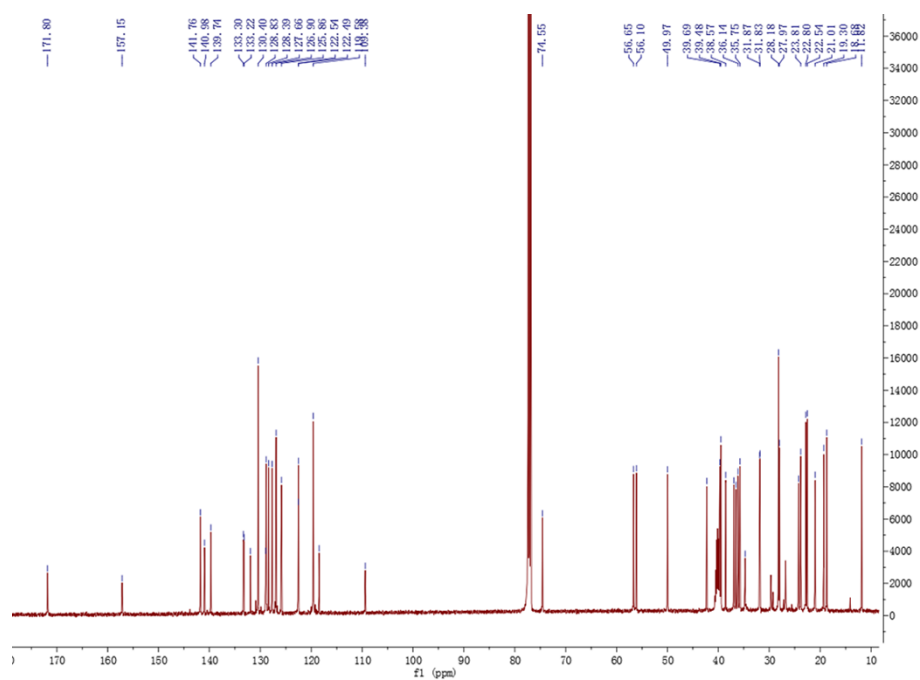


Fig. S9 ^{13}C NMR (125 MHz) spectrum of compound **2** in CDCl_3 .

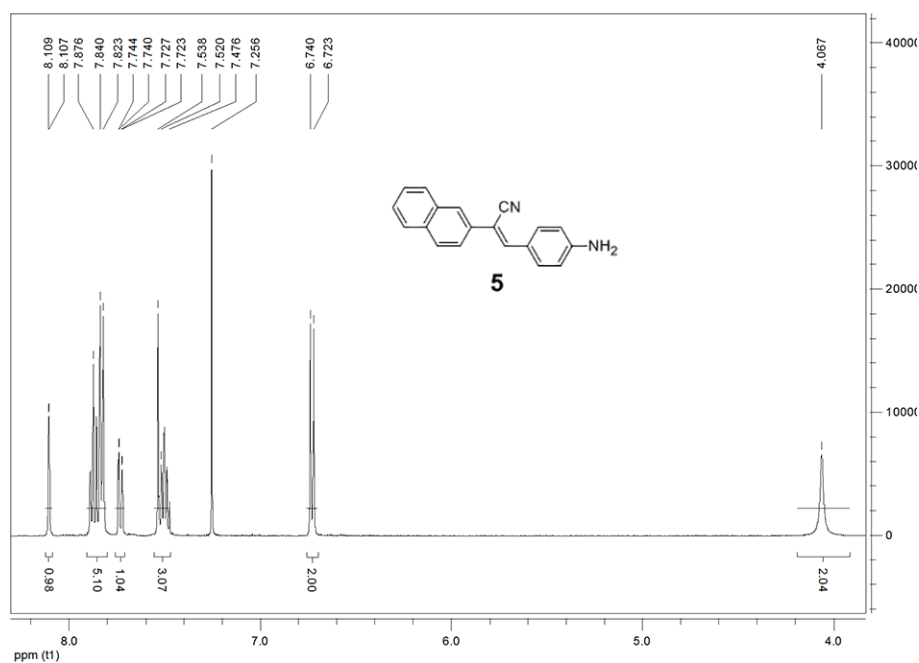


Fig. S10 ^1H NMR (500 MHz) spectrum of compound 5 in CDCl_3 .

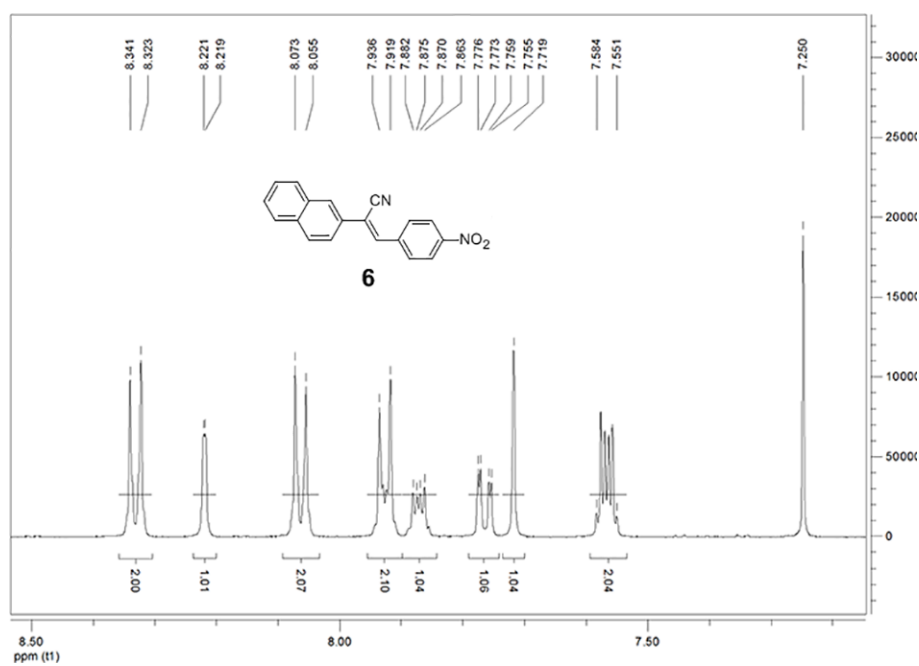


Fig. S11 ^1H NMR (500 MHz) spectrum of compound 6 in CDCl_3 .