

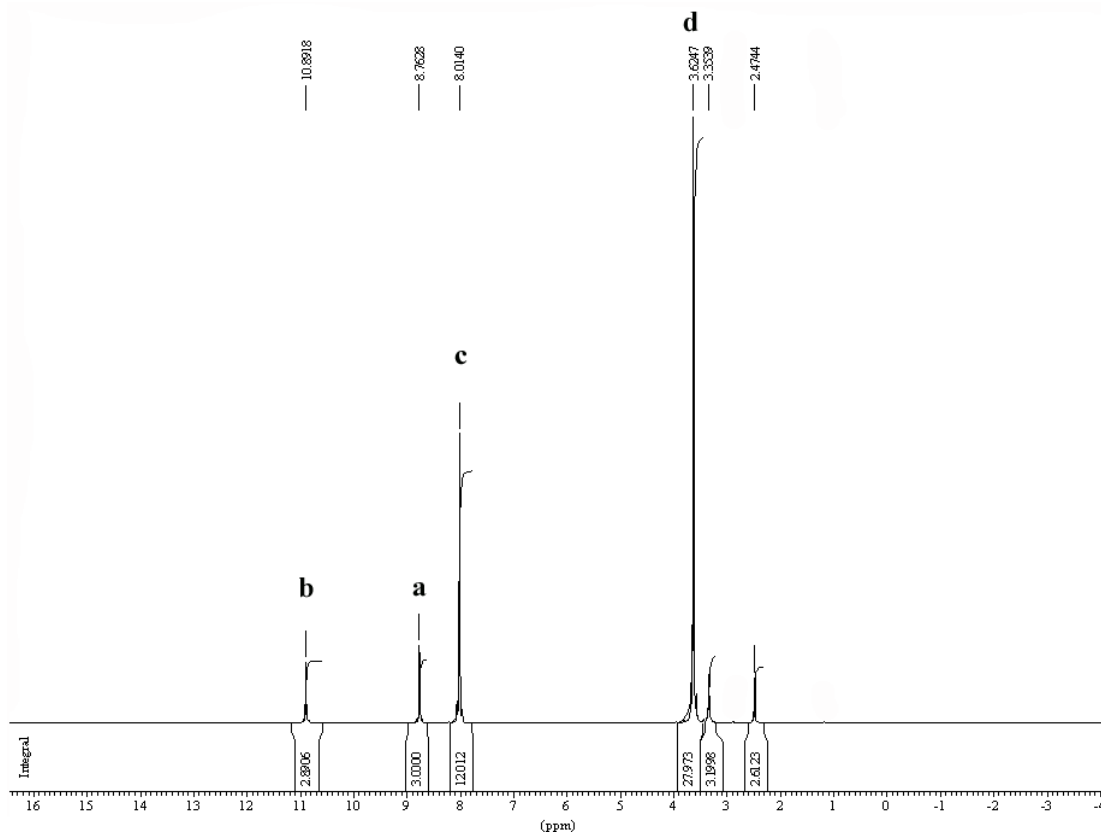
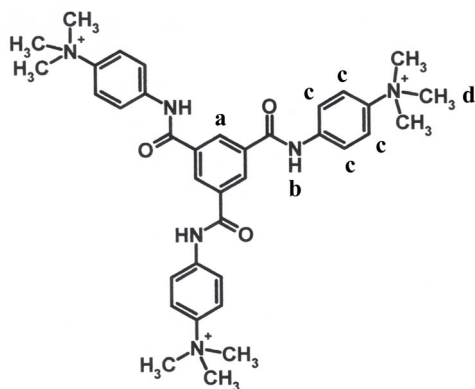
Supplementary Information

Combination of Ionic Self-Assembly and Hydrogen Bonding as a Tool for the Synthesis of Liquid-Crystalline Materials and Organogelators from a Simple Building Block.

Franck Camerel and Charl F.J. Faul

¹H-NMR spectrum of compound 1 with iodine as counter-ion.

(Solvent: DMSO-*d*₆, δ 2.4744 ppm containing H₂O, δ 3.3539 ppm)

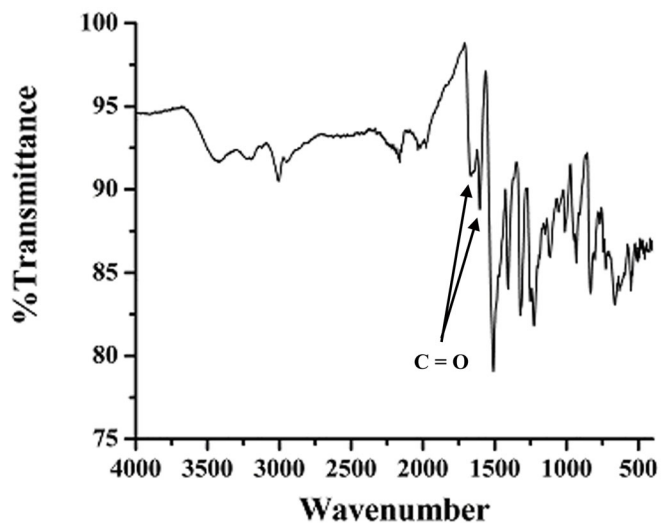


Elemental analysis of compound 1 with iodine as counter-ion.

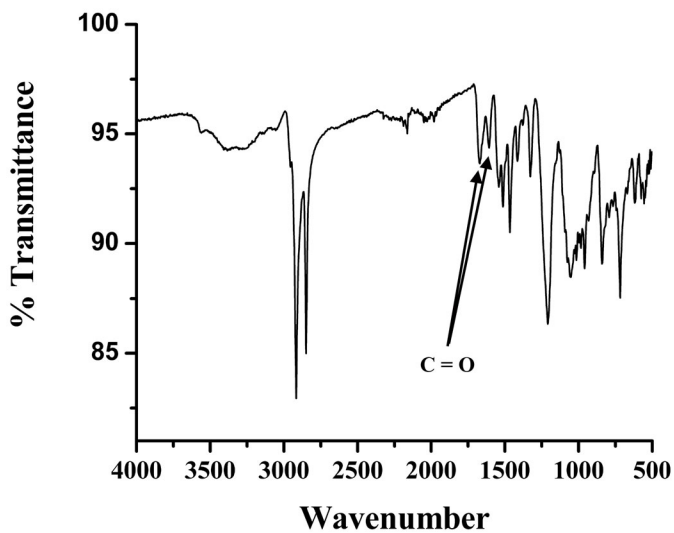
Calculated Composition: C = 43.65% , H = 4.58% , N = 8.48%

Determined Composition: C = 42.52% , H = 4.89% , N = 8.25%

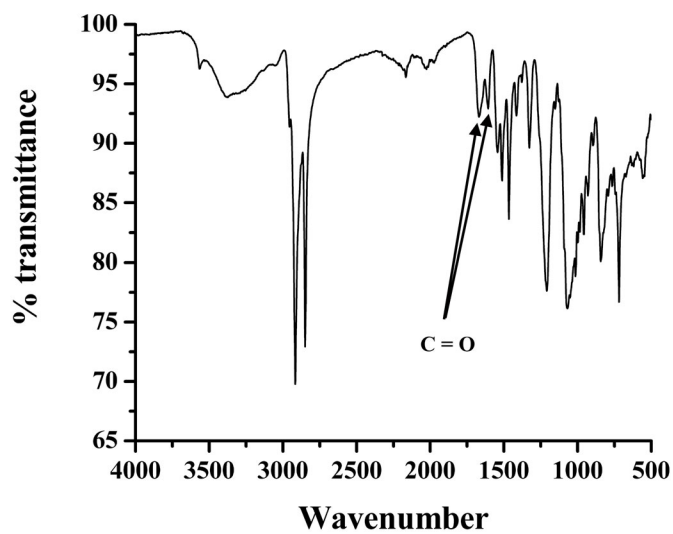
IR spectrum of compound 1 with iodine as counter-ion (Solid-State).



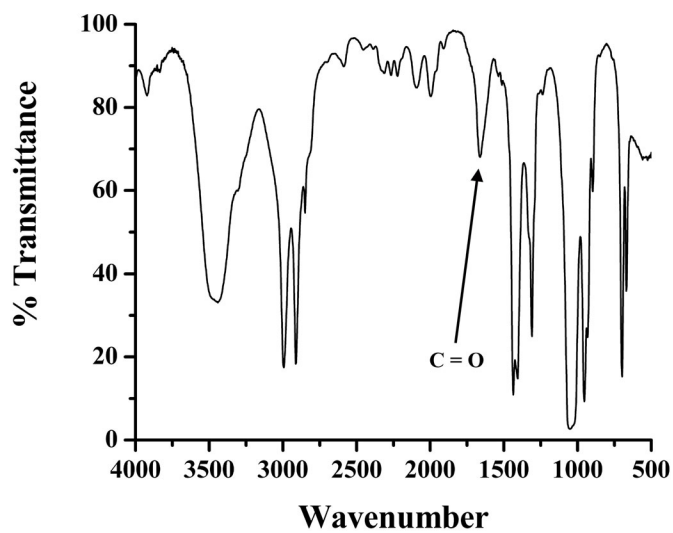
IR spectrum of complex 1-C16S (Solid-State).



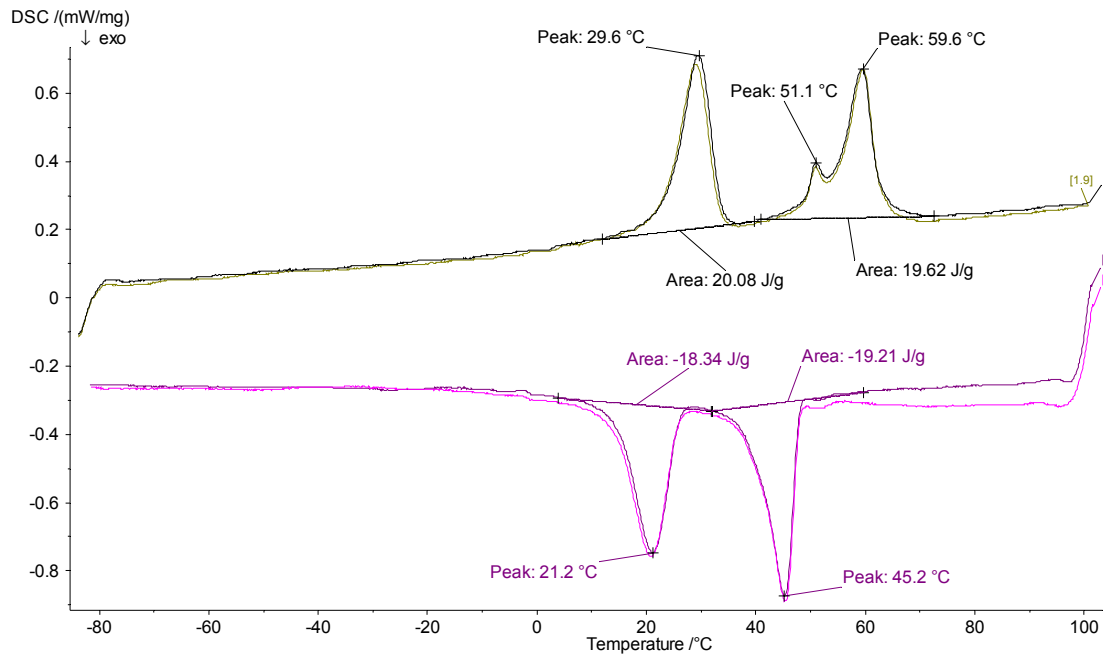
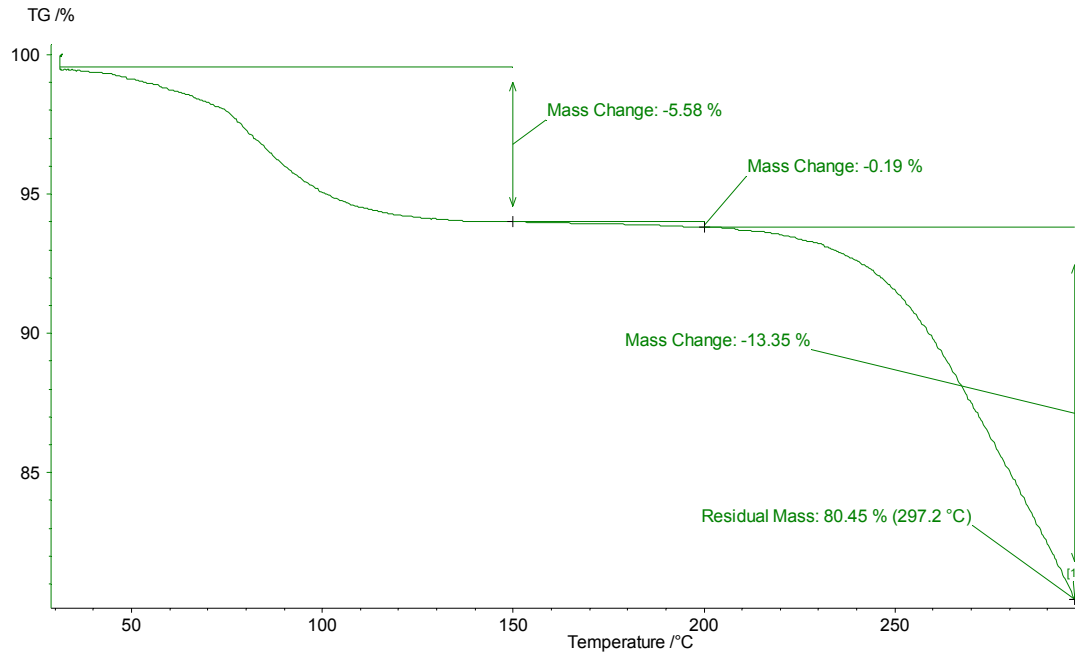
IR spectrum of complex 1-C16DP (Solid-State).



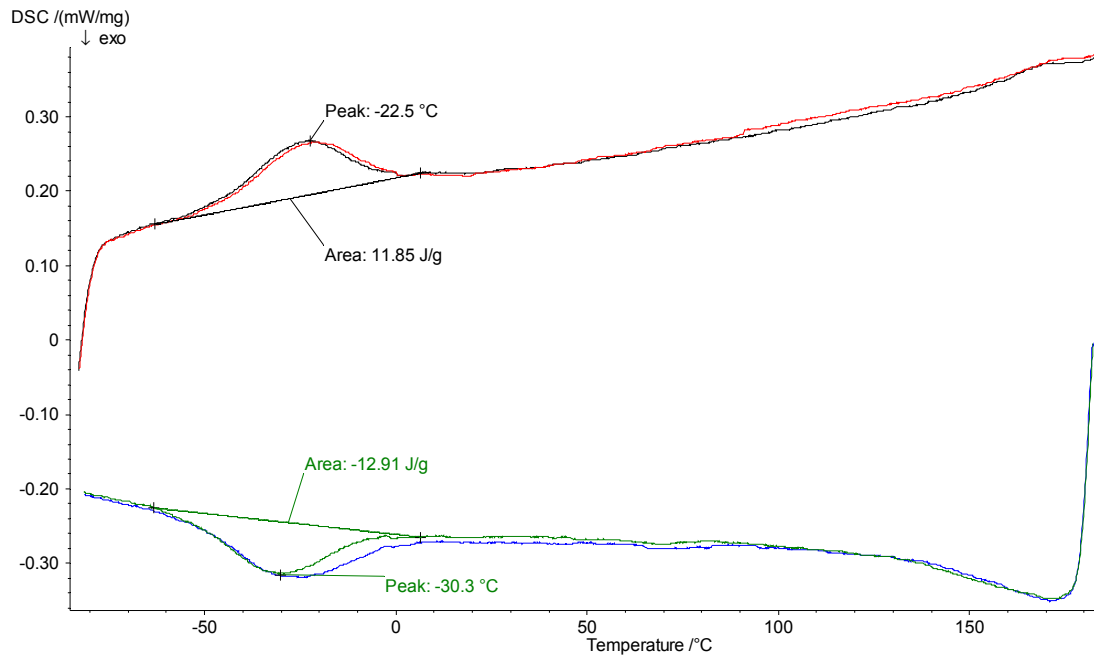
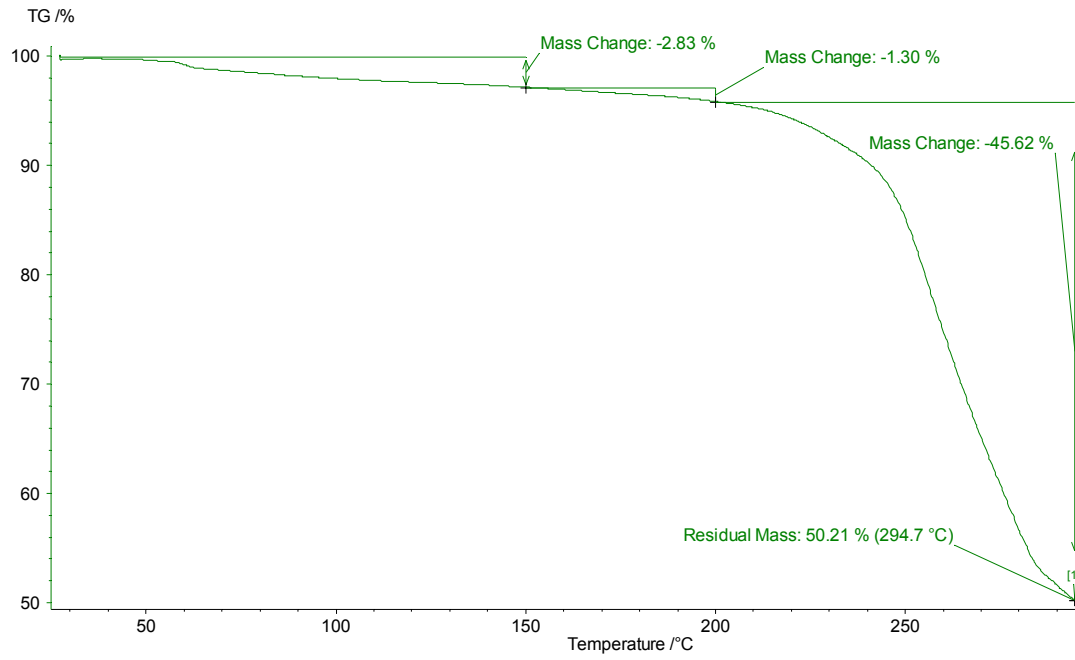
IR spectrum of complex 1-C16DP in CCl₄ (10 mg/mL).



Thermogravimetric analysis (TGA) and differential scanning calorimetry (DSC) curves of 1-C16DP complex (casted from Chloroform).



TGA and DSC curves of 1-C16S complex (casted from DMSO).

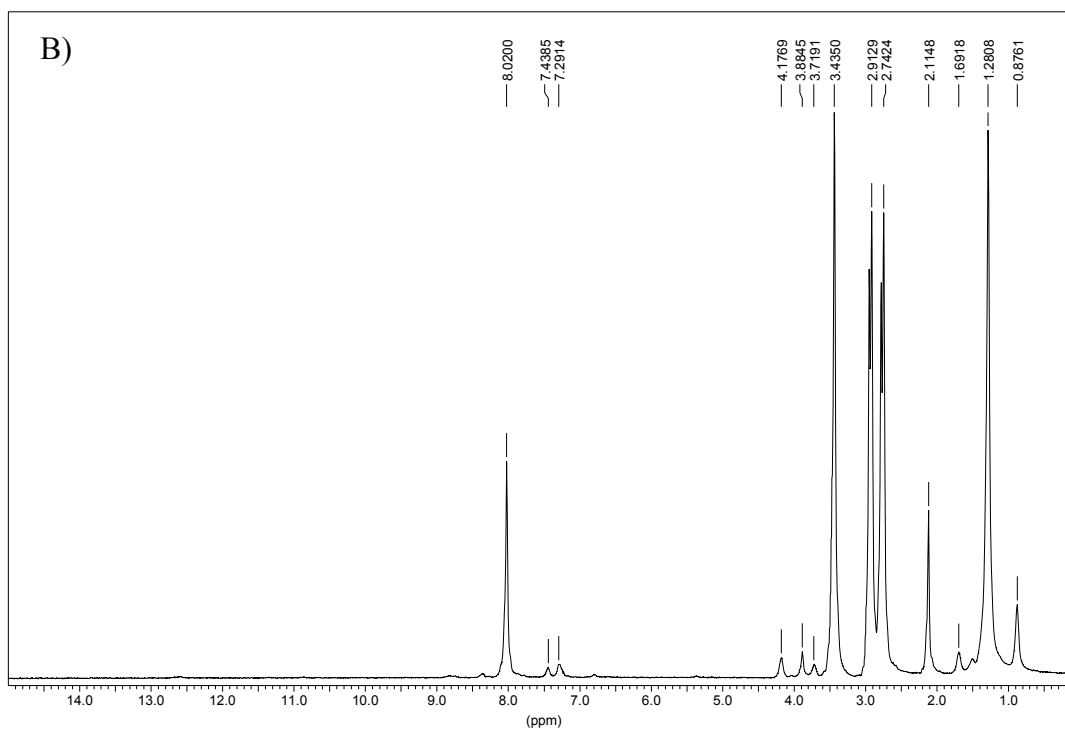
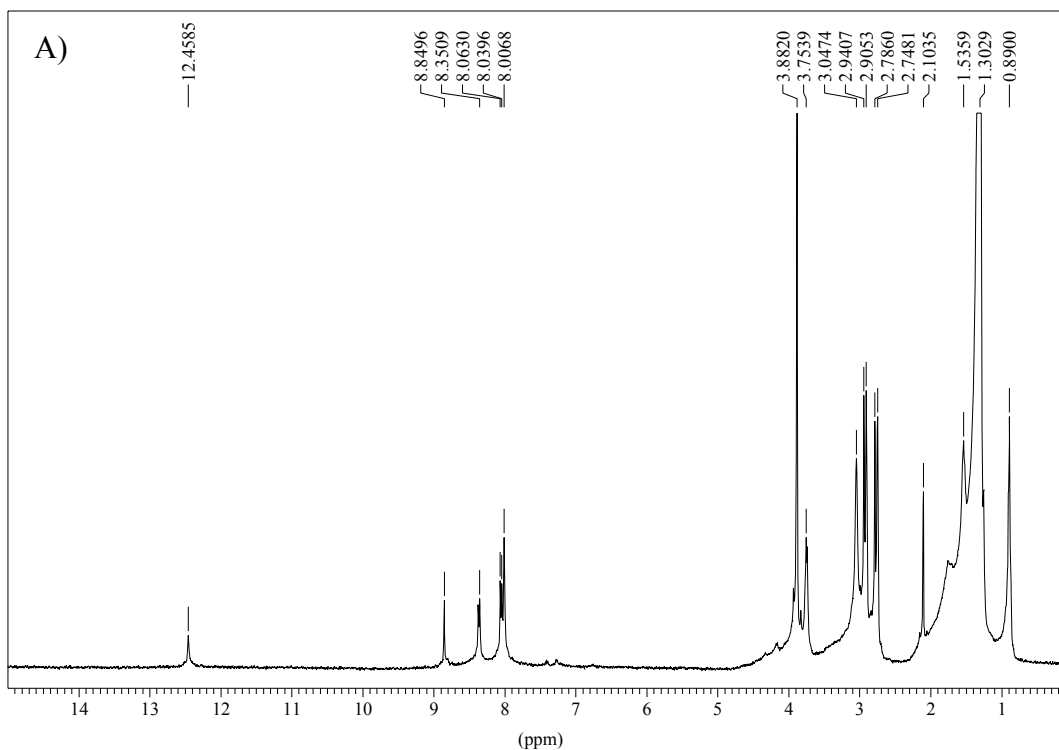


¹H NMR spectroscopy of 1-C16DP complex in deuterated DMF (10 mg/mL).

A) NMR spectrum of the fluid solution at 100 °C

B) NMR spectrum at room temperature after formation of the gel after cooling from 100°C.

(Solvent: DMF-*d*₇, δ 2.74 ppm and 2.91 ppm (CH₃), 8.02 ppm(H) containing H₂O, δ 3.48 ppm)



Concentration series of 1-C16DP complex in DMF.

From left to right: 5, 6, 7, 8, 9 mg/mL. Gel formation is confirmed by observing that the sample does not flow when the test tube is inverted.

