Electronic Supplementary Material (ESI) for Soft Matter

(Electronic Supplementary Information)

Structural studies of organocatalytic gels derived of L-Pro. Relationship between aggregation and supramolecular catalytic properties.

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Table S1 Minimum gel concentration (mM) for compounds **1a-c** and **2**

Entry	Compound	Toluene	CH_3CN	CH_3NO_2	$EtNO_2$	AcOEt	THF	H_2O	DME
1	**1a**	G (50)	G (34)	G (7)	G (29)	G (6)	G (30)	---	24
2	**1b**	G (7)	G (16)	G (4)	G (20)	G (7)	S	---	S
3	**1c**	G (11)	G (14)	G (3)	G (18)	G (9)	S	---	S
4	**2**	---	---	---	---	---	---	G (2)	---

G = Gel state; S = Soluble.

Table S2 FTIR values for xerogels of compounds **1a-c** and **2**

Entry	Compound	Solvent	Amide A (cm^{-1})	Amide I (cm^{-1})	Amide II (cm^{-1})
1	**1a**	CH_3CN	3287	1636	1548
2	**1b**	CH_3CN	3280	1641	1566-1540
3	**1c**	CH_3CN	3281	1636	1559-1539
4	**1a**	CH_3NO_2	3281	1637	1550
5	**1b**	CH_3NO_2	3277	1638	1564-1540
6	**1c**	CH_3NO_2	3292	1636	1552-1541
7	**2**	CH_3NO_2	3288	1636	1559-1539
8	**1a**	Toluene	3280	1636	1546
9	**1b**	Toluene	3281	1641	1540-1564
10	**1c**	Toluene	3288	1637	1539-1559
11	**2**	Water	3283	1638	1550

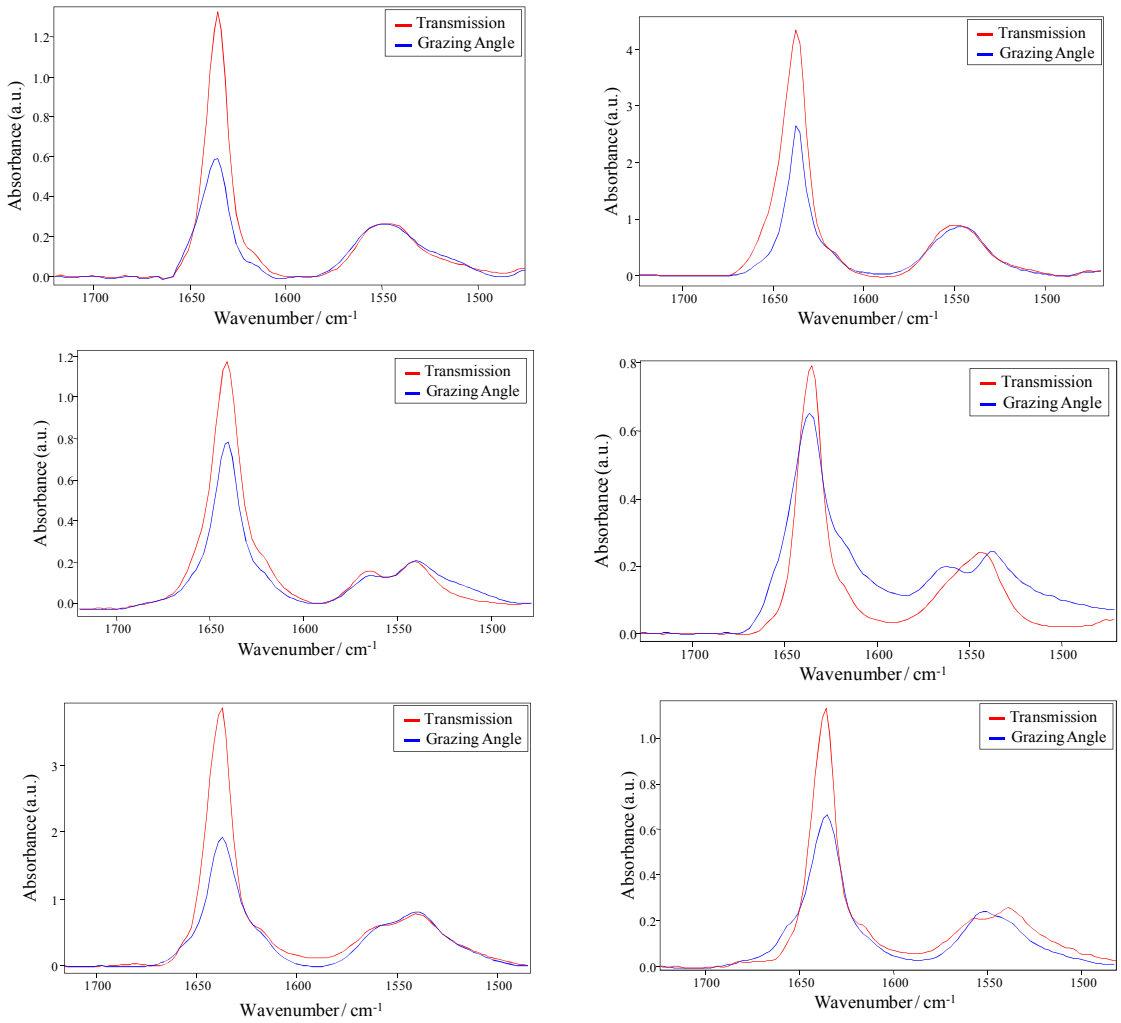

Fig. S1 Transmission vs. grazing angle ATR FT-IR spectra for xerogels of compound **1a-c** in acetonitrile (left) and in nitromethane (right). Top: compound **1a**; Center: compound **1b**; Bottom: compound **1c**.

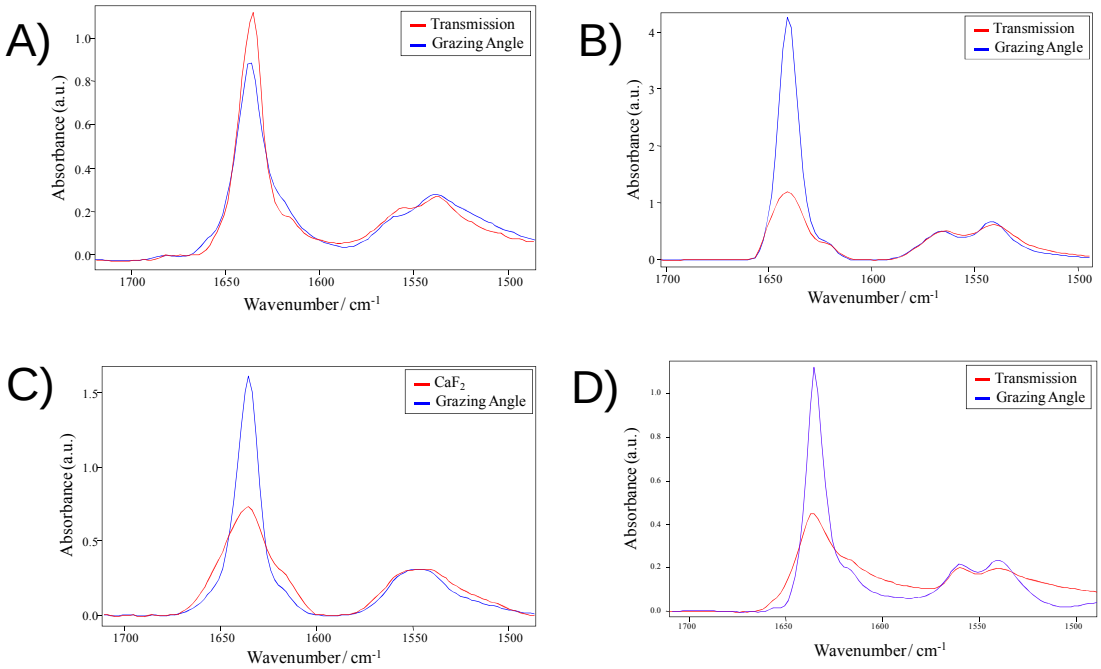

Fig. S2 Transmission vs. grazing angle ATR FT-IR spectra for xerogels of compound **1a-c** in toluene (A-C) and for compound **2** in water (D).

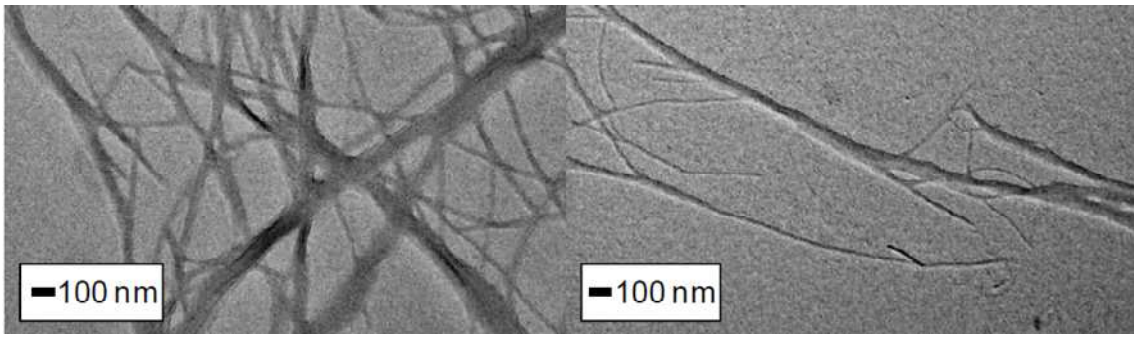

Fig. S3 TEM photographs of a xerogel of compound **2** .

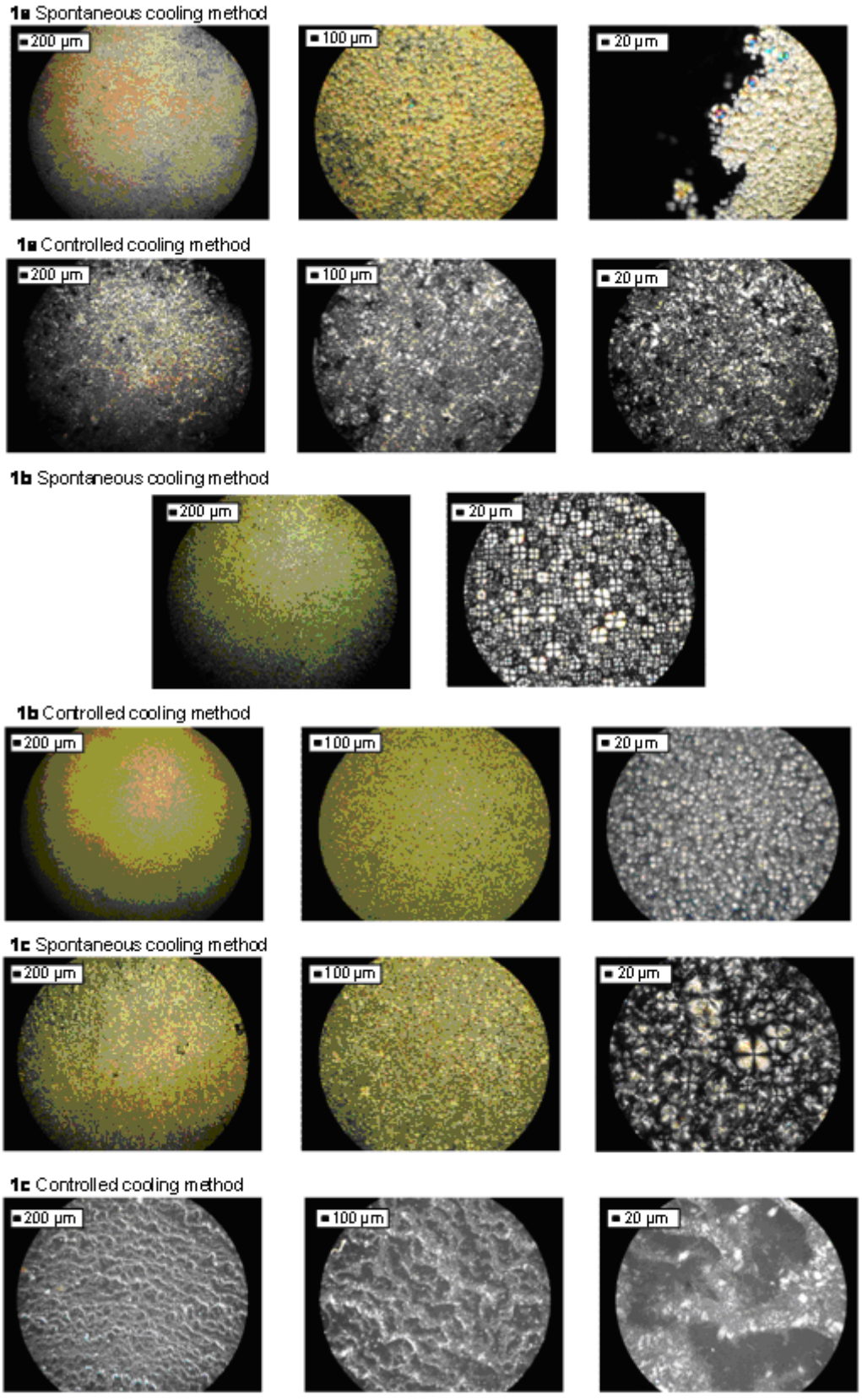

Fig. S4 POM images of gels of **1a-c** in acetonitrile obtained by different gelation methods.

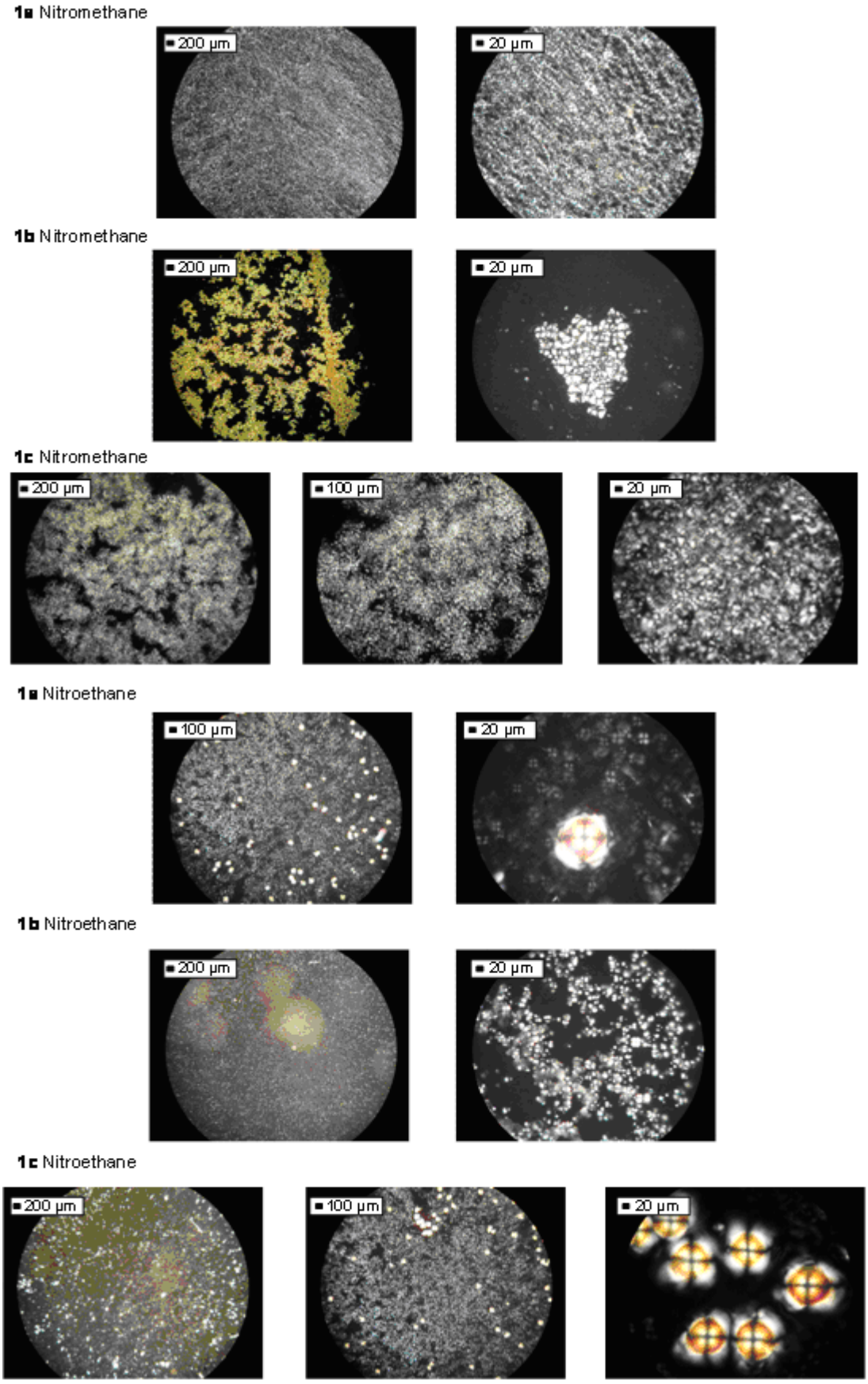

Fig. S5 POM images of gels of **1a-c** in nitroalkanes.

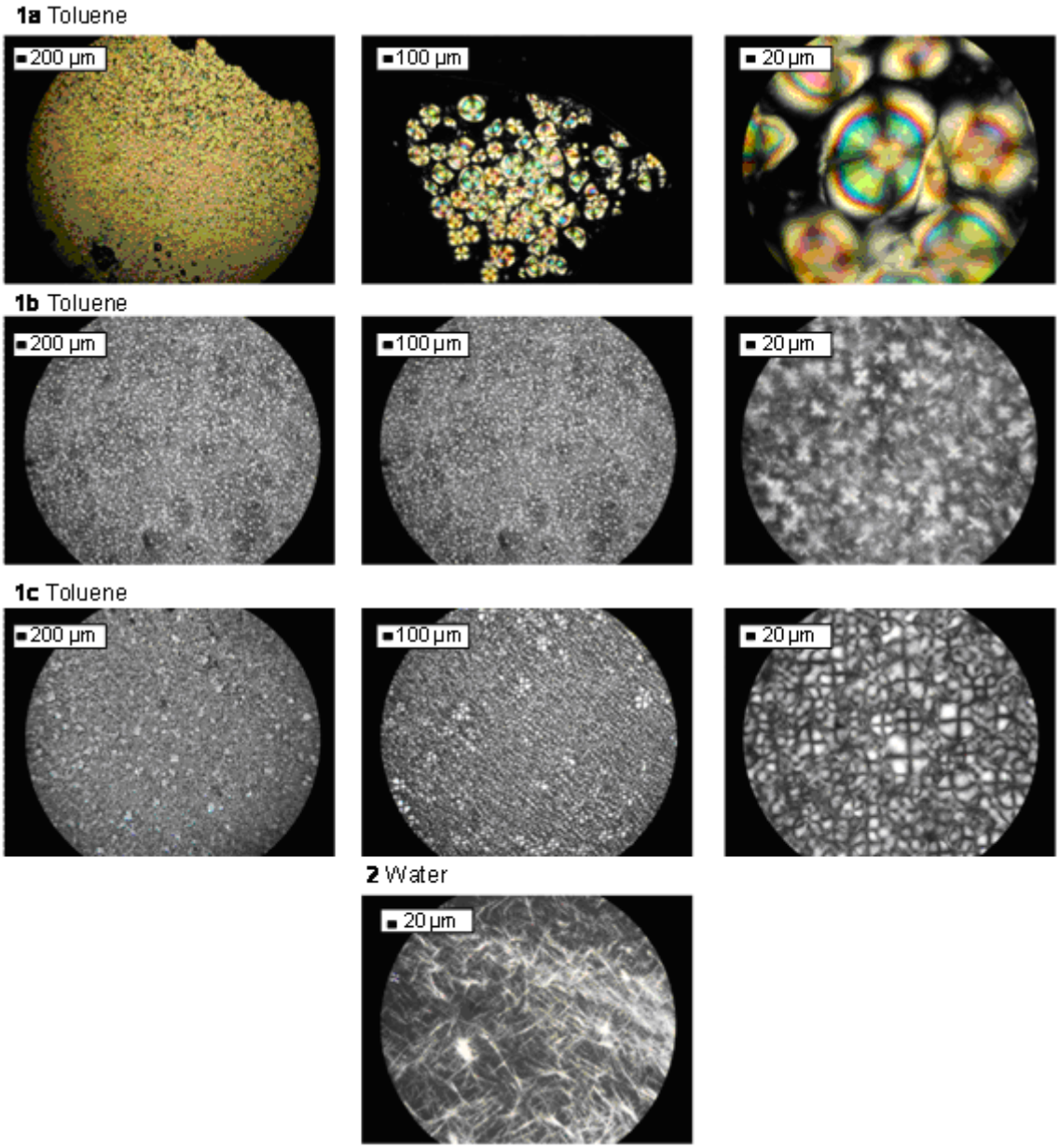

Fig. S6 POM images of gels of **1a-c** in toluene and a gel of **2** in water.

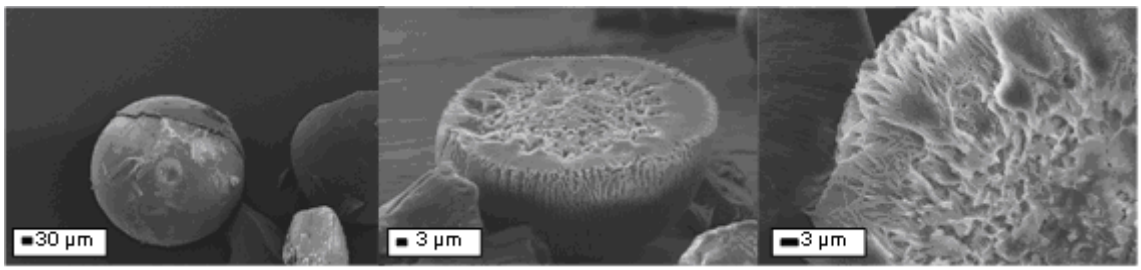

Fig. S7 SEM images of spherulites detected in the gelation studies of **1c** in acetonitrile.

Fig. S8 Variation of the elastic modulus (G') and viscous modulus (G") vs the gelator

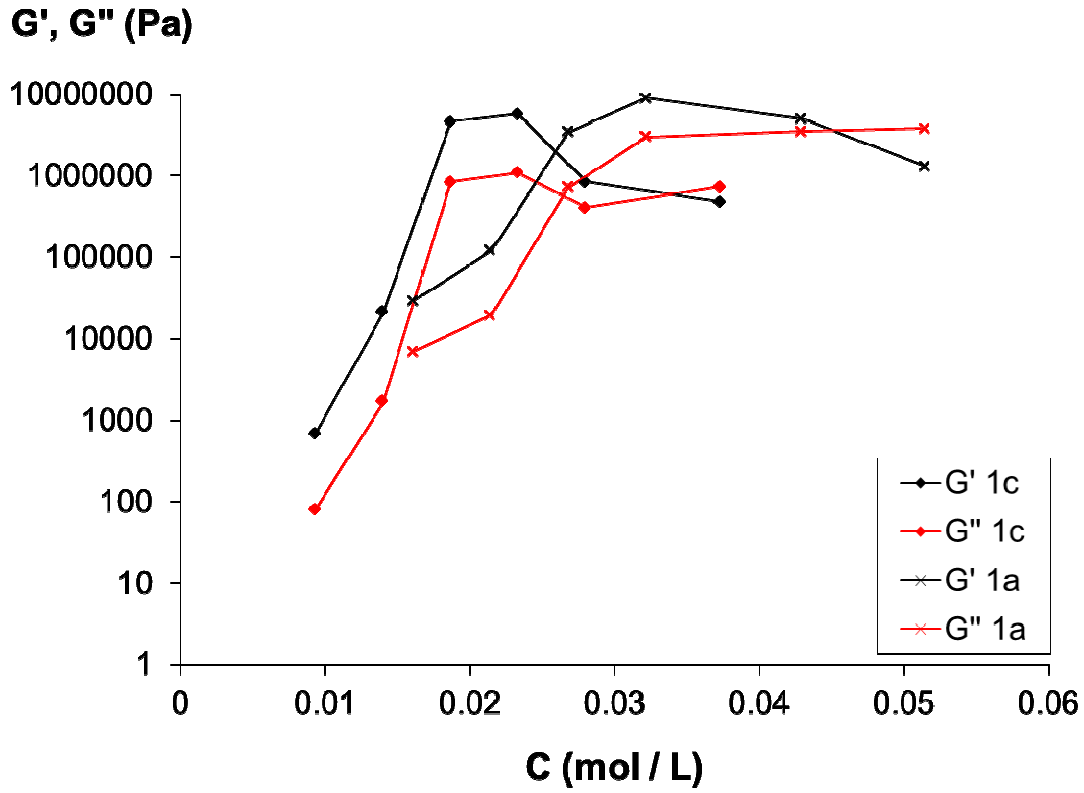

Fig. S9 Variation of the elastic modulus (G') and viscous modulus (G") vs the gelator concentration for gels **1a** and **1c** in nitromethane.