Organogel Composed of Trifluoromethyl Anthryl Cyanostyrenes: Enhanced Emission and Self-Assemblies

Jagadish Katla†, Akshay JM Nair†, Abhijeet Ojha‡ and Sriram Kanvah*

*†Department of Chemistry, Indian Institute of Technology Gandhinagar, Palaj, Gandhinagar 382355
‡Department of Biological Engineering, Indian Institute of Technology Gandhinagar Palaj Gandhinagar 382355

*e-mail: kanvah@gatech.edu

Fig. S1 Absorption spectra of a) 1 & b) 3 in different organic solvents

Fig. S2 Emission spectra of (1) in different organic solvents
**Fig. S3** Absorption spectra of compounds from a) (1), b) (2) & c) (3) in dioxane- water mixture

**Fig. S4** Emission spectra of compounds from (1) in dioxane- water mixture
**Fig. S5** SEM images of compound (1) in (a) 100% dioxane (scale: 100 nm), (b) 40% water (scale: 100 nm) and in (c) 100% water (scale: 100 nm)

**Fig. S6** Gel formation was not observed for compound (1) through heating and cooling in \(t\)-butanol

**Fig. S7** Amplitude sweep measurement of gels formed in \(t\)-butanol; a) 2 and b) 3
Fig. S8 Fluorescent microscopy images of the gels (2) and (3) obtained from t-butanol at excitation $\lambda_{\text{abs}} = 402$ nm (scale: 100$\mu$m).

Fig. S9 Powder XRD pattern of gels formed in t-butanol a) 2 & b) 3.
Fig. S10 \(^1\)H NMR and \(^{13}\)C NMR of compound (1)
Fig. S11 $^1$H NMR and $^{13}$C NMR of compound (2)
Fig. S12 $^1$H NMR and $^{13}$C NMR of compound (3)