

Supporting Information

A new TICT and AIE-active tetraphenylethene-based Schiff base with reversible piezofluorochromism

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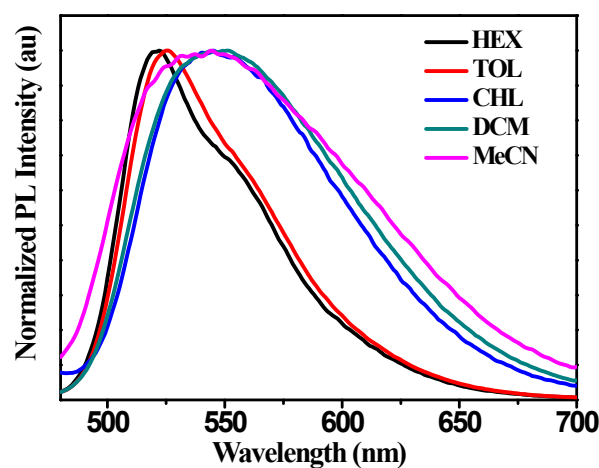


Fig. S1 Normalized emission spectra of NSTPE in different organic solvents. Concentration: 10^{-5} M. Excitation wavelength: 370 nm.

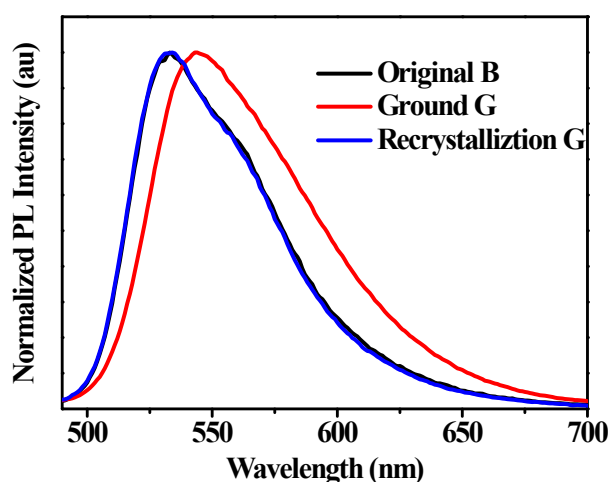


Fig. S2 Change in the PL spectra of B by fuming-recrystallization process.

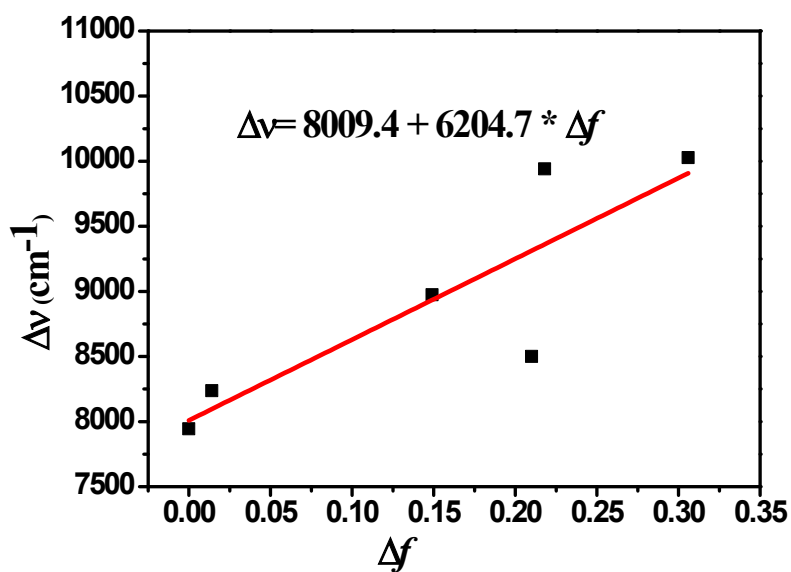


Fig. S3 Plot of Stokes shift ($\Delta\nu$) of **NSTPE** versus Δf in different solvents.

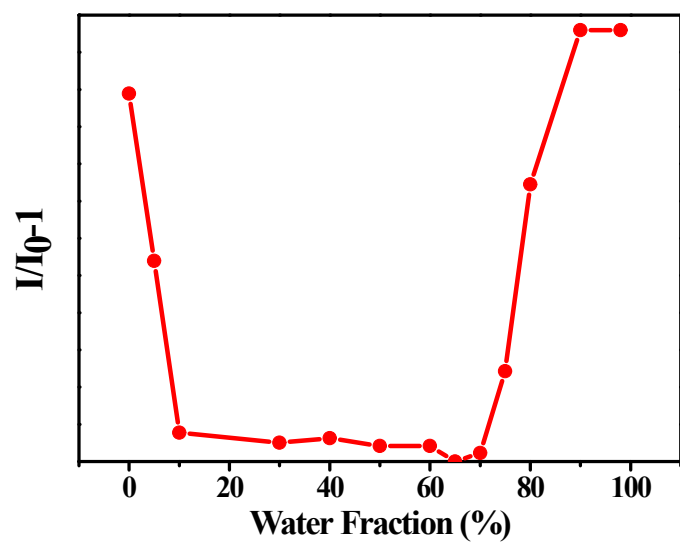


Fig.S4 Plots of $(I/I_0 - 1)$ values versus the compositions of the H₂O/THF mixtures of **NSTPE**, where I_0 is the PL intensity in 65% water content solution.

Table S1 The extinction coefficients (ϵ) and fluorescence quantum yields (Φ) of **NSTPE** in the H₂O/THF mixtures.

Concentration: 10^{-4} M.

Water fraction (%)	0	5	10	30	50	65	75	90	98
ϵ (M ⁻¹ cm ⁻¹)	23860	20650	20560	28560	28730	27650	30890	28890	15890
Φ_F (%)	5.33	3.32	1.12	0.012	0.005	0.0012	2.21	5.11	6.09

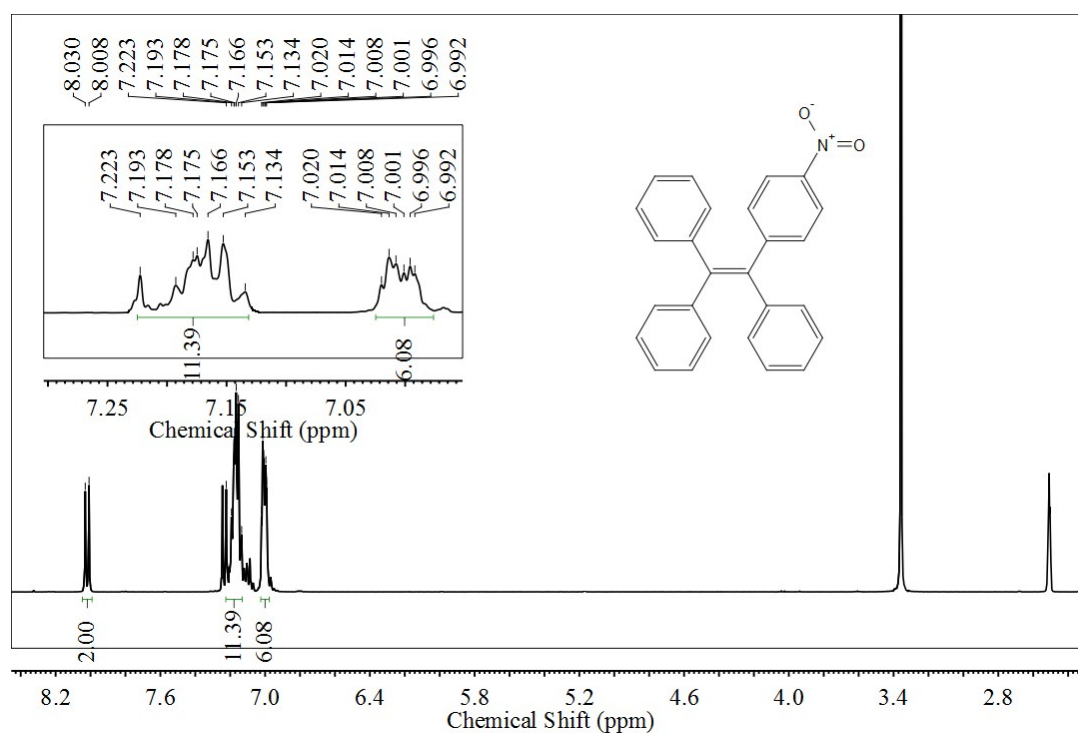


Fig. S5 ¹H NMR spectrum of compound 1.

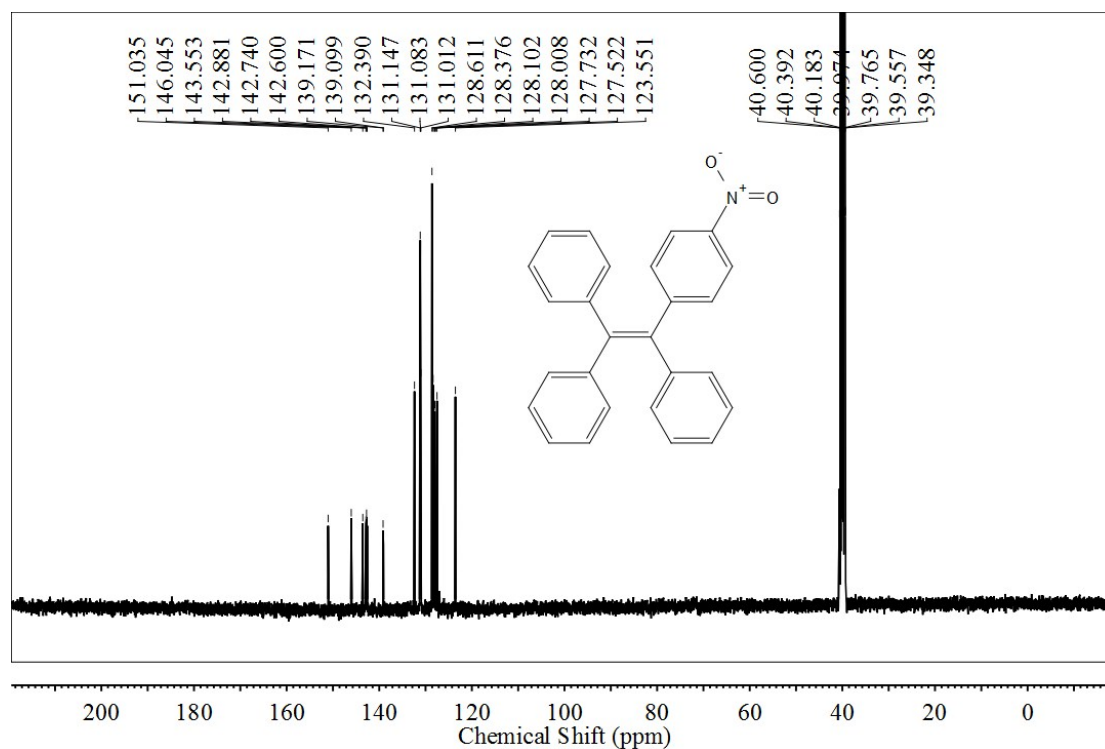


Fig. S6 ¹³C NMR spectrum of compound 1.

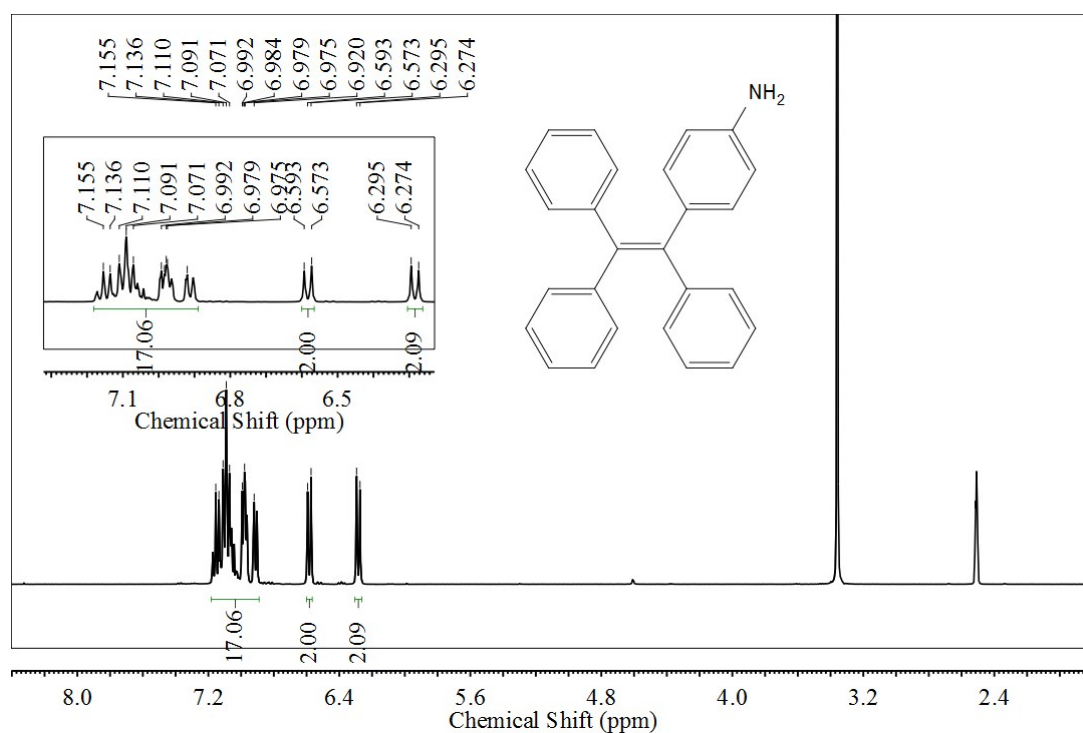


Fig. S7 ¹H NMR spectrum of compound 2.

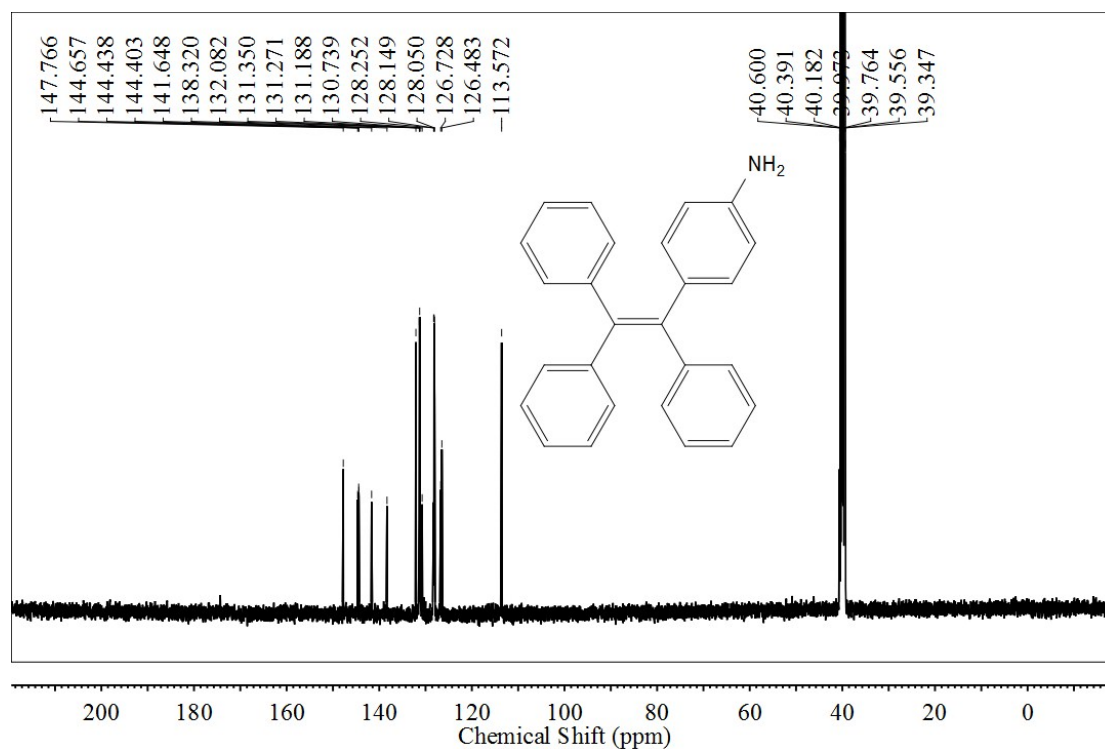


Fig. S8 ¹³C NMR spectrum of compound 2.

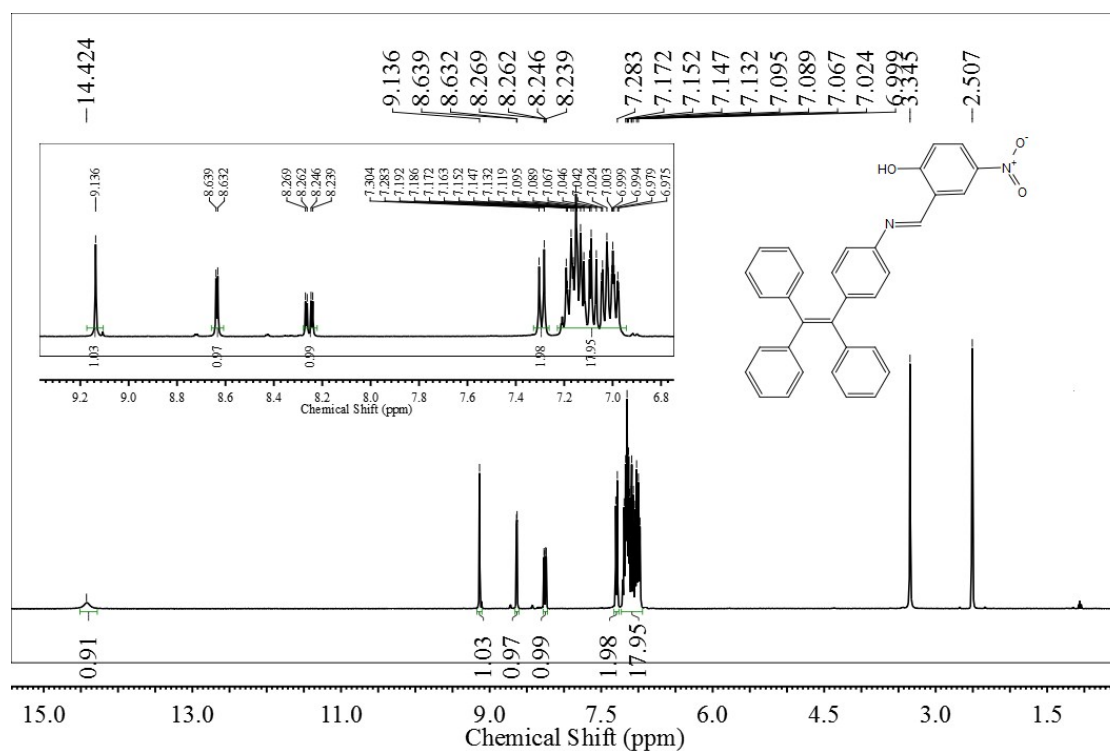


Fig. S9 ¹H NMR spectrum of NSTPE.

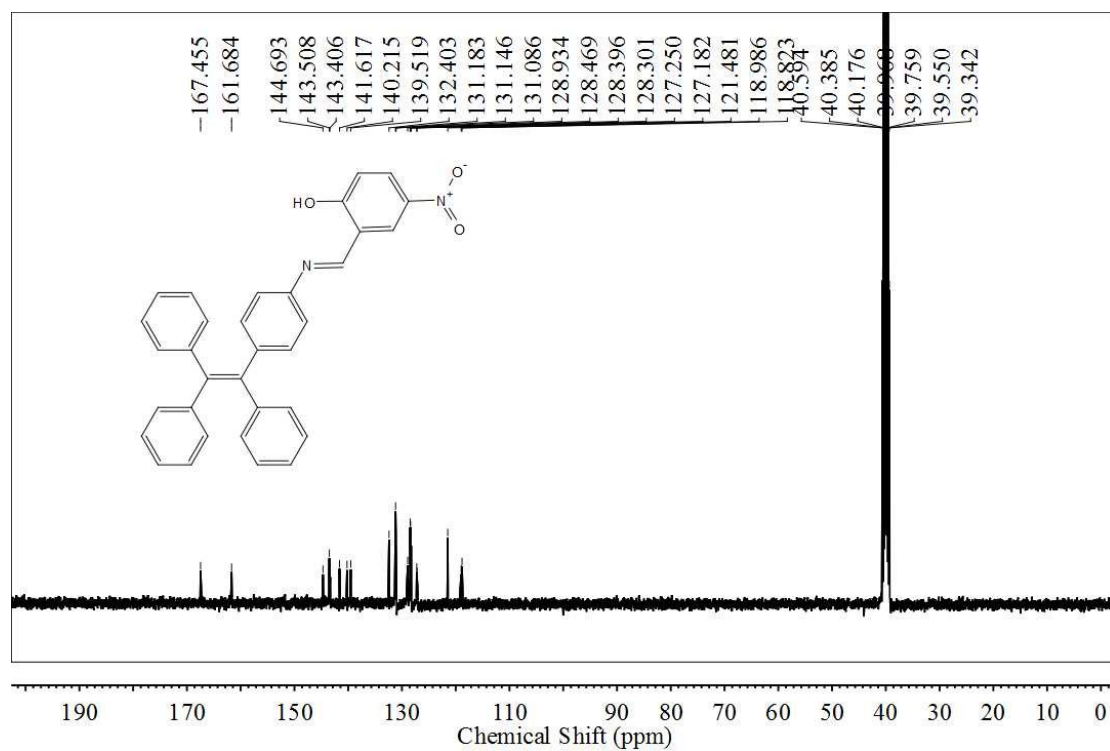


Fig. S10 ¹³C NMR spectrum of NSTPE.