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 ($\Delta\upsilon$) of NSTPE versus $\Delta f$ in different solvents.

Fig. S4 Plots of $(I/I_0 - 1)$ values versus the compositions of the H$_2$O/THF mixtures of NSTPE, where $I_0$ is the PL intensity in 65% water content solution.

**Table S1** The extinction coefficients ($\varepsilon$) and fluorescence quantum yields ($\Phi_f$) of NSTPE in the H$_2$O/THF mixtures. Concentration: $10^{-4}$ M.

<table>
<thead>
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<th>Water fraction (%)</th>
<th>0</th>
<th>5</th>
<th>10</th>
<th>30</th>
<th>50</th>
<th>65</th>
<th>75</th>
<th>90</th>
<th>98</th>
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</thead>
<tbody>
<tr>
<td>$\varepsilon$ (M$^{-1}$cm$^{-1}$)</td>
<td>23860</td>
<td>20650</td>
<td>20560</td>
<td>28560</td>
<td>28730</td>
<td>27650</td>
<td>30890</td>
<td>28890</td>
<td>15890</td>
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<tr>
<td>$\Phi_f$ (%)</td>
<td>5.33</td>
<td>3.32</td>
<td>1.12</td>
<td>0.012</td>
<td>0.005</td>
<td>0.0012</td>
<td>2.21</td>
<td>5.11</td>
<td>6.09</td>
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</table>
Fig. S5 ¹HNMR spectrum of compound 1.

Fig. S6 ¹³C NMR spectrum of compound 1.
Fig. S7 $^1$H NMR spectrum of compound 2.

Fig. S8 $^{13}$C NMR spectrum of compound 2.
Fig. S9 $^1$H NMR spectrum of NSTPE.

Fig. S10 $^{13}$C NMR spectrum of NSTPE.