Supplementary Information

Heating and Mechanical Force-Induced “Turn on” Fluorescence of Cyanostilbene Derivative with H-type Stacking

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**Fig. S1** The absorption spectra of α-CN-TPA in THF and THF/water (1:9) mixtures, Solution concentration: 10μM

**Fig. S2** The emission spectra of α-CN-TPA in THF/water mixtures with different fractions of water ($f_W$). Solution concentration: 10μM
**Fig. S3** Pictorial representations of Frontier molecular orbitals calculated at B3LYP/3-21G** for dye α-CN-TPA

**Fig. S4** SEM and TEM images of the spherical nanostructures prepared from THF/H₂O (1:9) mixtures of α-CN-TPA. The inset depicts the ED patterns of the corresponding nanoparticles, Solution concentration: 10 μM.
Fig. S5 DSC trace (first heating) of pristine α-CN-TPA powders

Fig. S6 Fluorescence decay profiles of α-CN-TPA in the different state