Supporting Information

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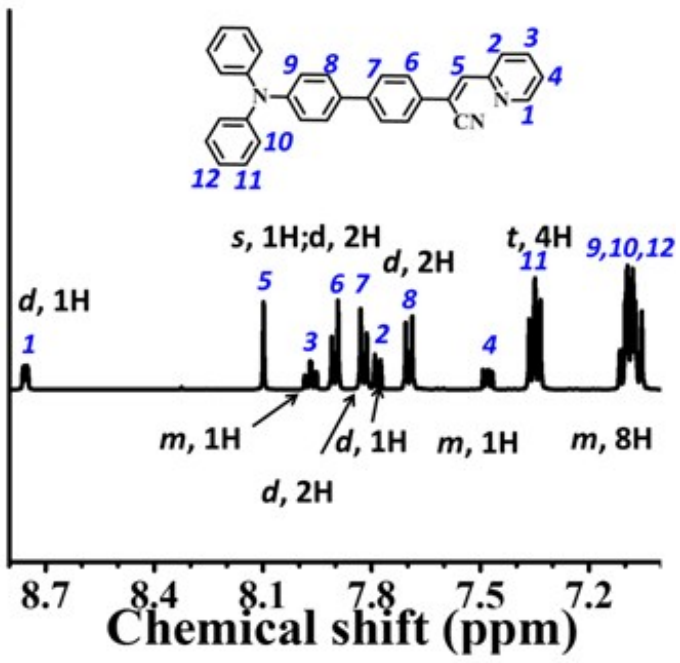
S-I Tables and figures

Table S1 Detailed absorption (λ_a) and emission peak (λ_f) positions of ***o*N-TPA** in the different solvents

solvents	$\Delta f(\varepsilon,n)$	***o*N-TPA**		
		λ_a (nm)	λ_f (nm)	ν_a-ν_f(cm^{-1})
Hexane	0.0012	370	474	6.0×10^3
Toluene	0.014	381	503	6.3×10^3
Butyl ether	0.096	370	499	7.0×10^3
Isopropyl ether	0.145	373	513	7.3×10^3
Ethyl ether	0.167	368	524	8.09×10^3
Ethyl acetate	0.200	375	561	8.9×10^3
Tetrahydrofuran	0.210	376	569	9.0×10^3
Dichloromethane	0.217	379	605	9.9×10^3
Dimethyl formamide	0.276	381	638	10.5×10^3
Acetonitrile	0.305	376	650	11.2×10^3



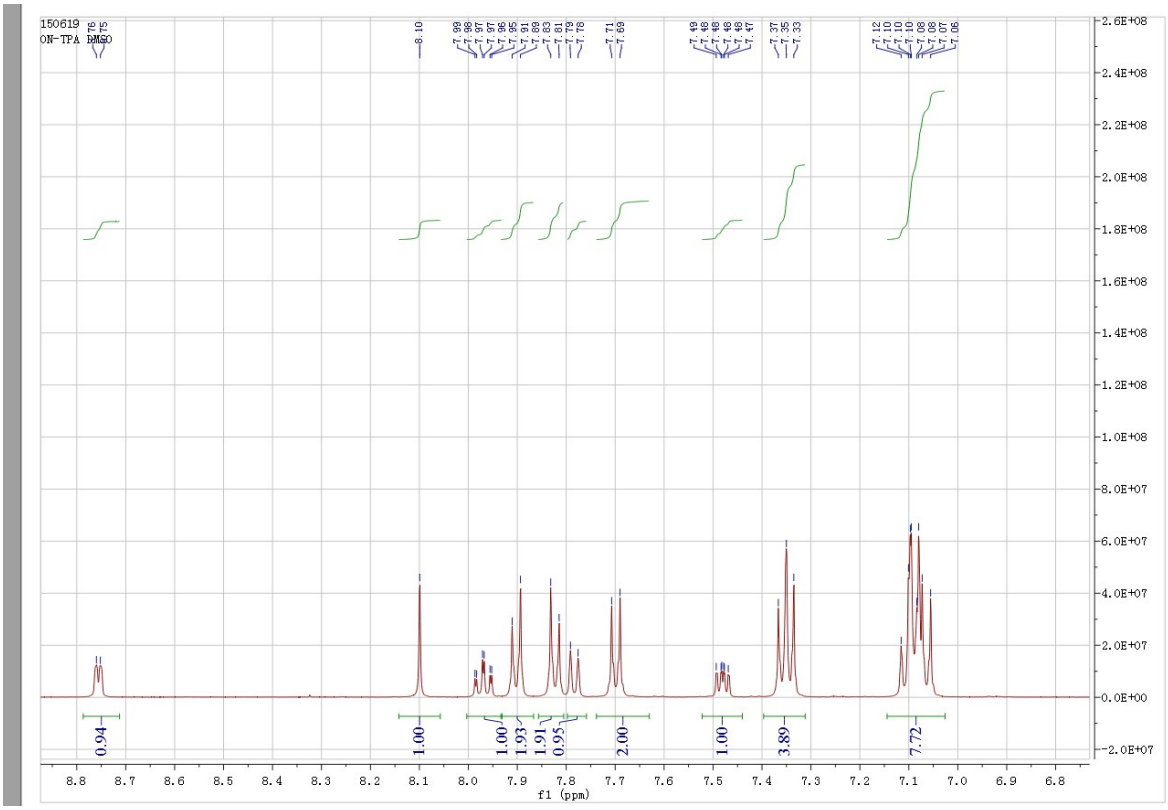


Figure S1 ^{1}H NMR of ***o*N-TPA** in DMSO

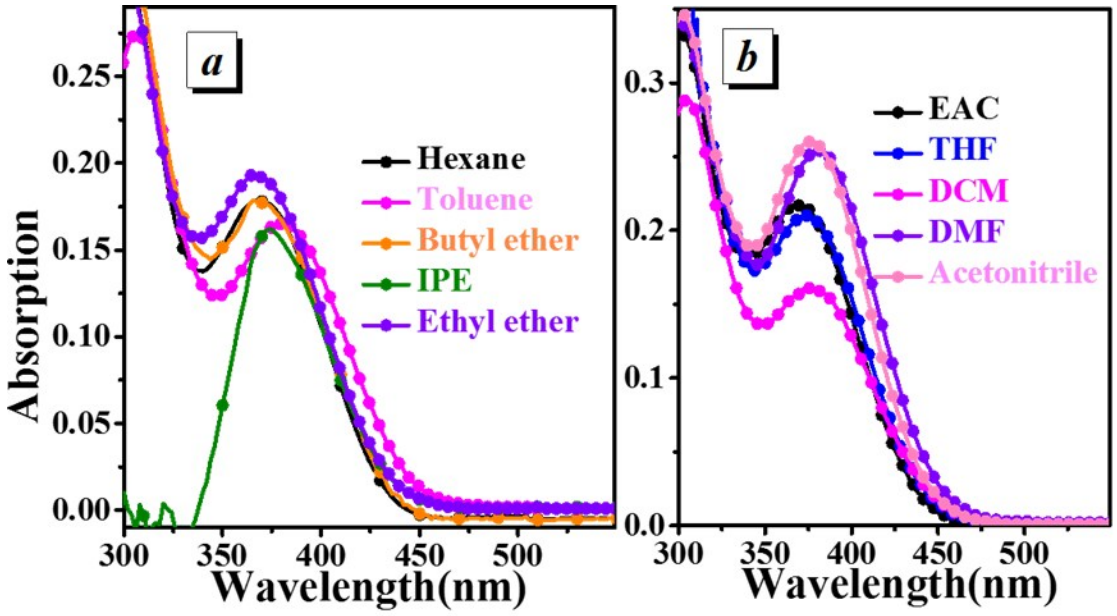


Figure S2 UV-vis absorption spectra of ***o*N-TPA** measured in the different solvents with the increasing orientational polarizability (Δf). *n*–Hexane: 0.0012; toluene: 0.014; butyl ether: 0.096; isopropyl ether (IPE): 0.145; ethyl ether: 0.167; ethyl acetate (EA): 0.200; tetrahydrofuran (THF): 0.210; dimethyl formamide (DMF); and acetonitrile: 0.305.

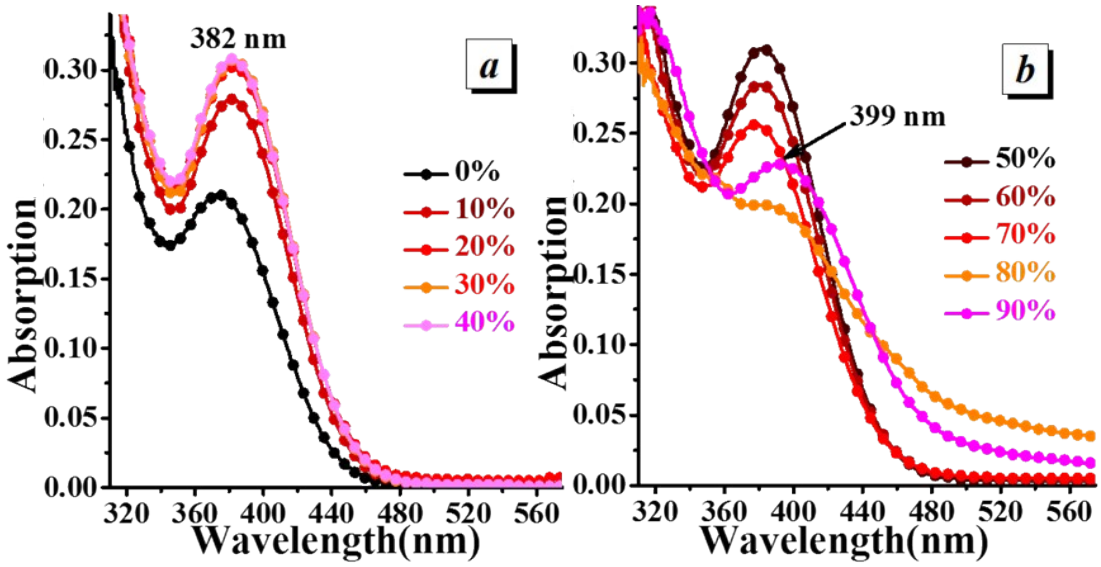


Figure S3 UV-vis absorption spectra of 10 μM ***o*N-TPA** in THF alone (0 %) and THF-water mixture with water fractions from 10 % to 90 % (v/v).

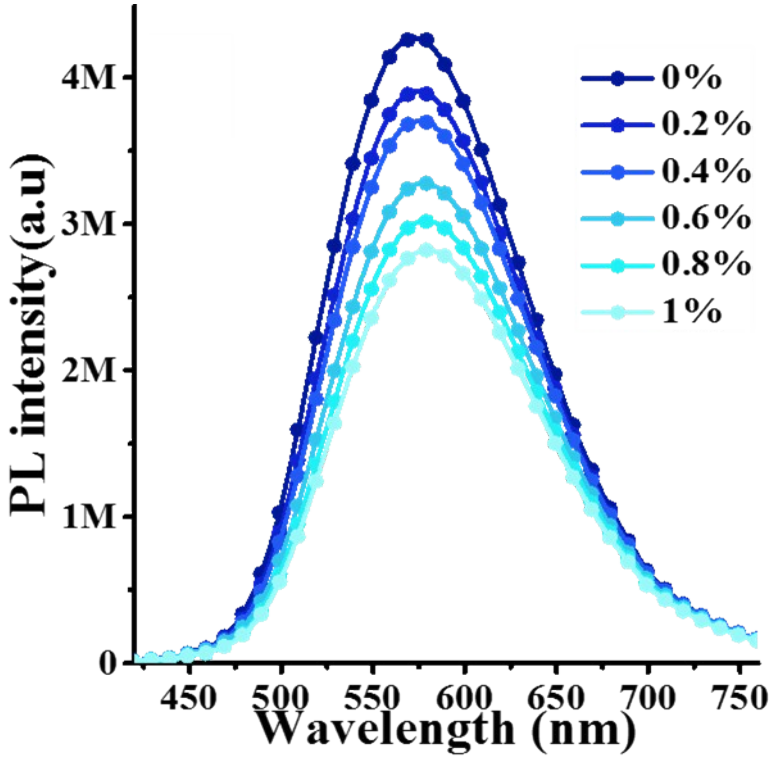


Figure S4 PL spectra change of 10 μM ***o*N-TPA** with the increasing water fraction from 0 to 1.0% (v/v)in THF (excitation at 410 nm, slit width 3).

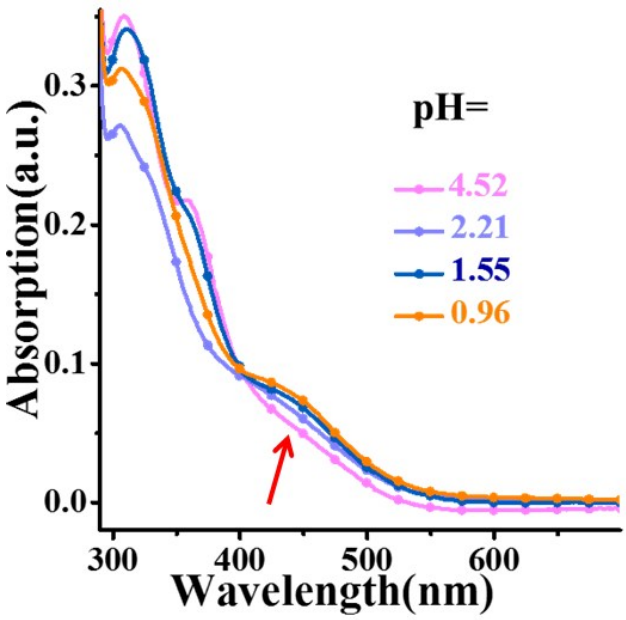


Fig.S5 Absorption spectra of 10 μM ***o*N-TPA** after adding the different concentration of TFA to tune the pH values of solution in THF-water mixtures with f_w=90%.

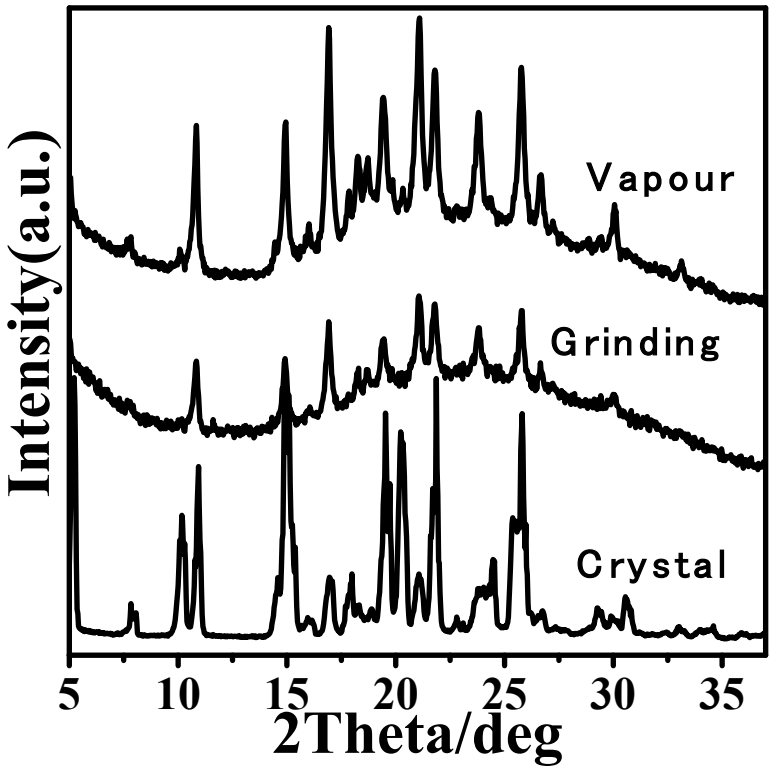


Fig. S6 Powder X-ray diffraction patterns of samples ***o*N-TPA** in the different states;

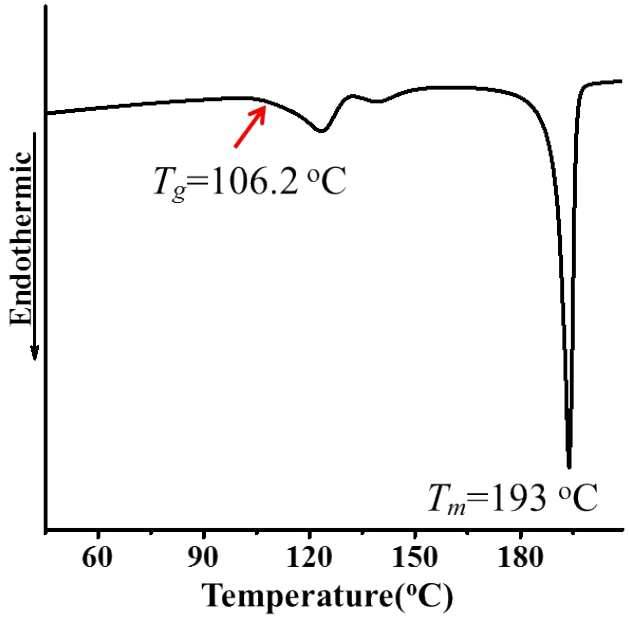


Fig. S7 the DSC curves (heating and cooling) of *o*N-TPA ground powders under a nitrogen atmosphere with heating and cooling rate of 10 °C min^{-1}

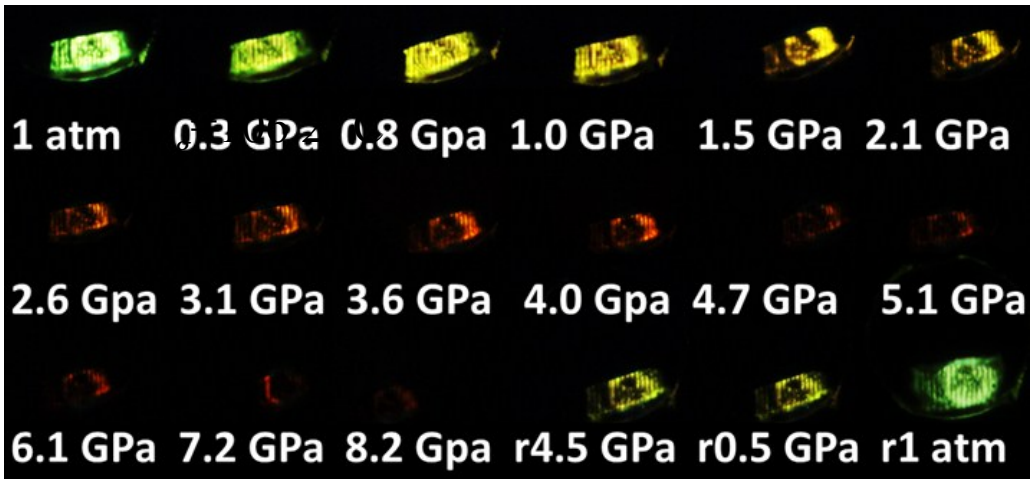


Fig. S8 fluorescence photographs of the Dye (***o*N-TPA**, 5% wt/wt)-doped polymers (**PMMA**) film under different hydrostatic pressure (from compression to decompression).