Electronic Supplementary Material (ESI) for New Journal of Chemistry.
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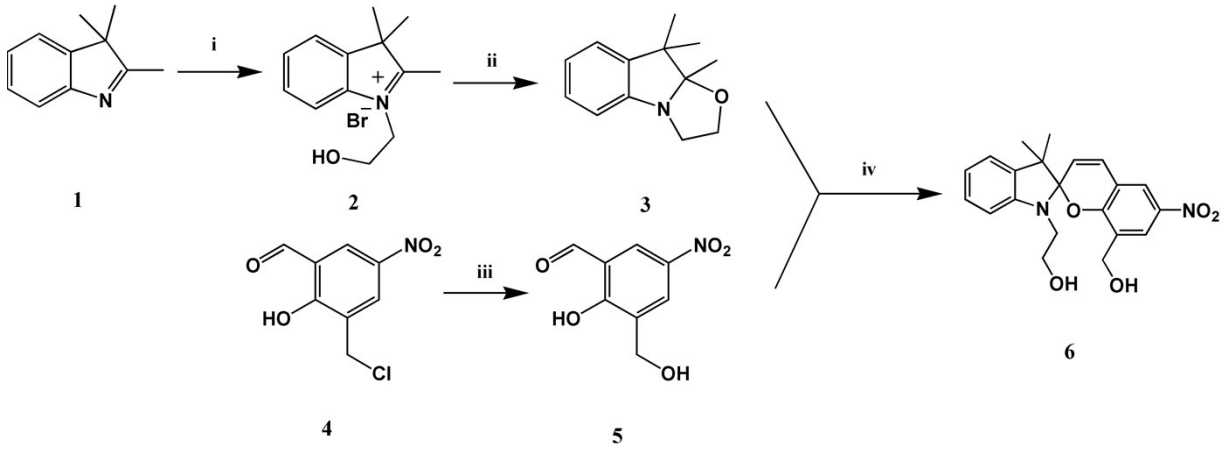

1 2 3 4 5 6

Scheme S1. Synthesis of the di-hydroxyl SP.

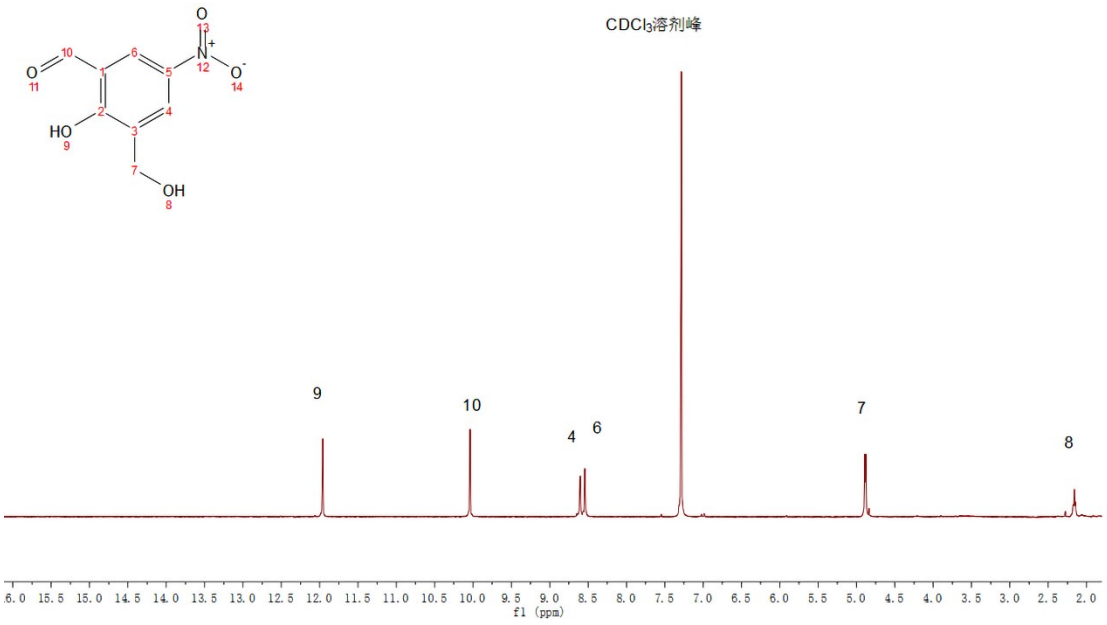

Figure S1. ^{1}H NMR of compound 5.

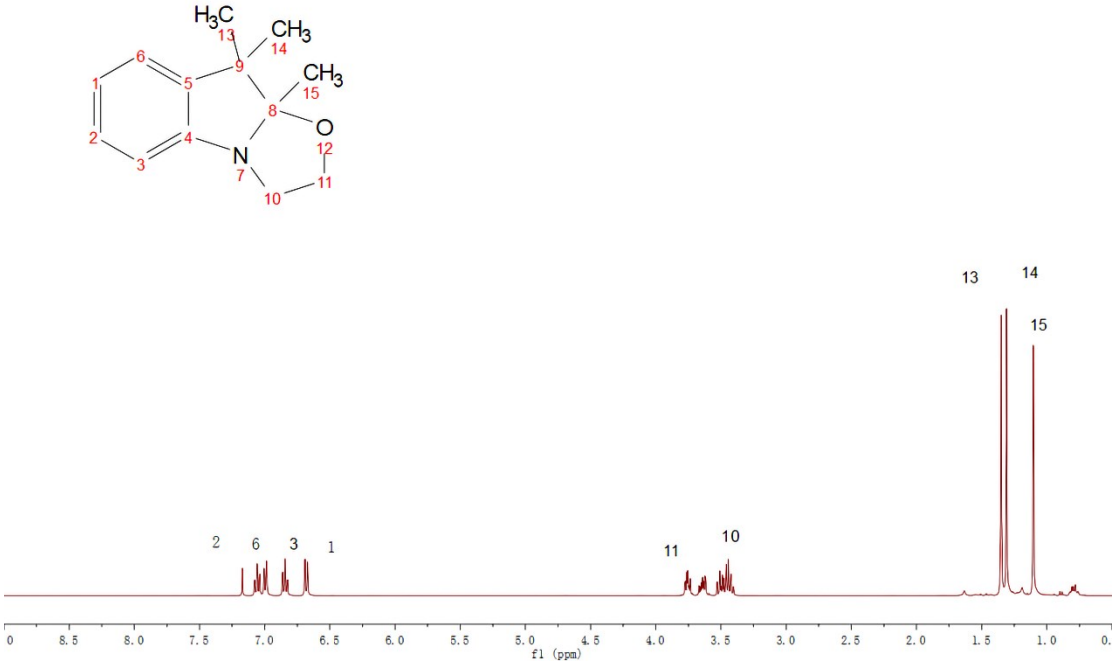

Figure S2. ^{1}H NMR of compound 3.

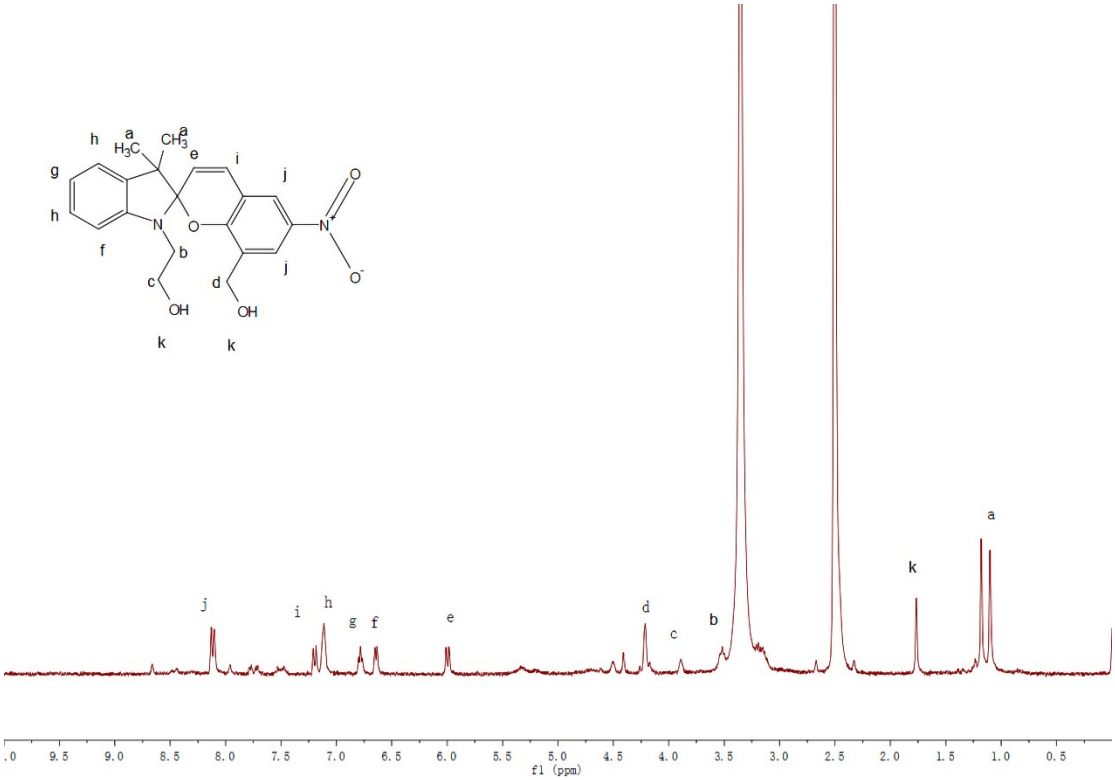

Figure S3. ^{1}H NMR of compound 6.

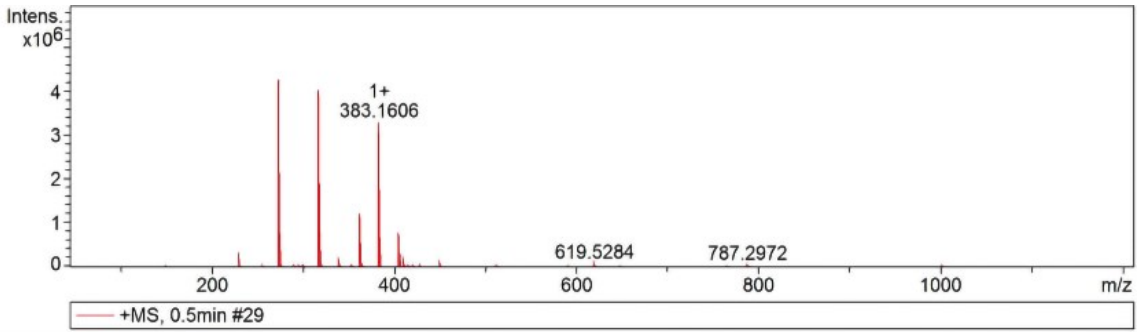

Figure S4. HRMS(ESI) spectrum of compound 6.

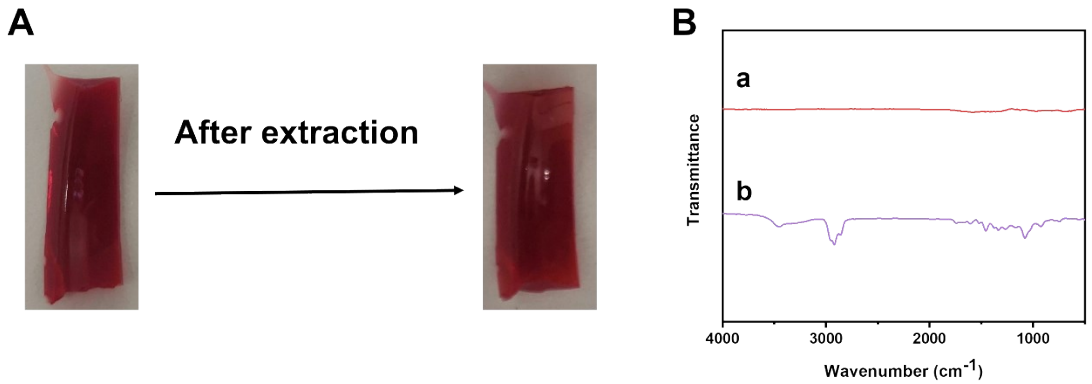

Figure S5. (A) Photo of PU-SP-4 hydrogel and (B) FT-IR spectra of (a) leaching liquor, (b) SP solution.

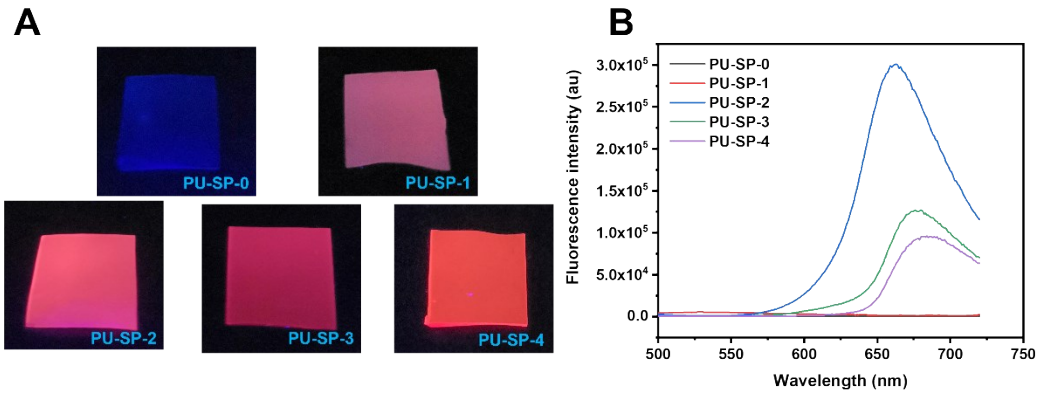

Figure S6. (A) Photos of luminous PU-SP hydrogels and (B) Fluorescence emission spectra.

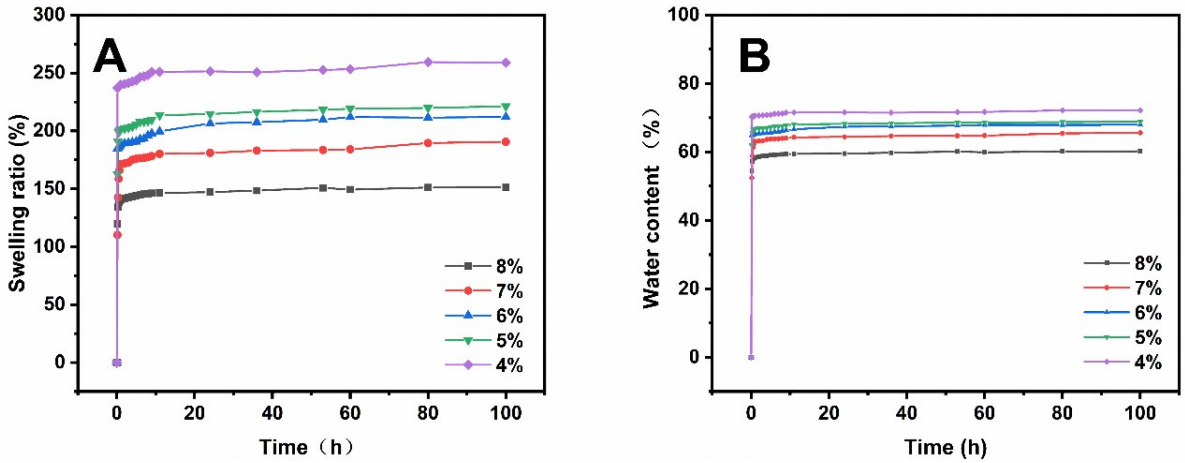

Figure S7. (A) Swelling ratio with time of PU-TMP-x; (B) Water content with time of PU-TMP-x.

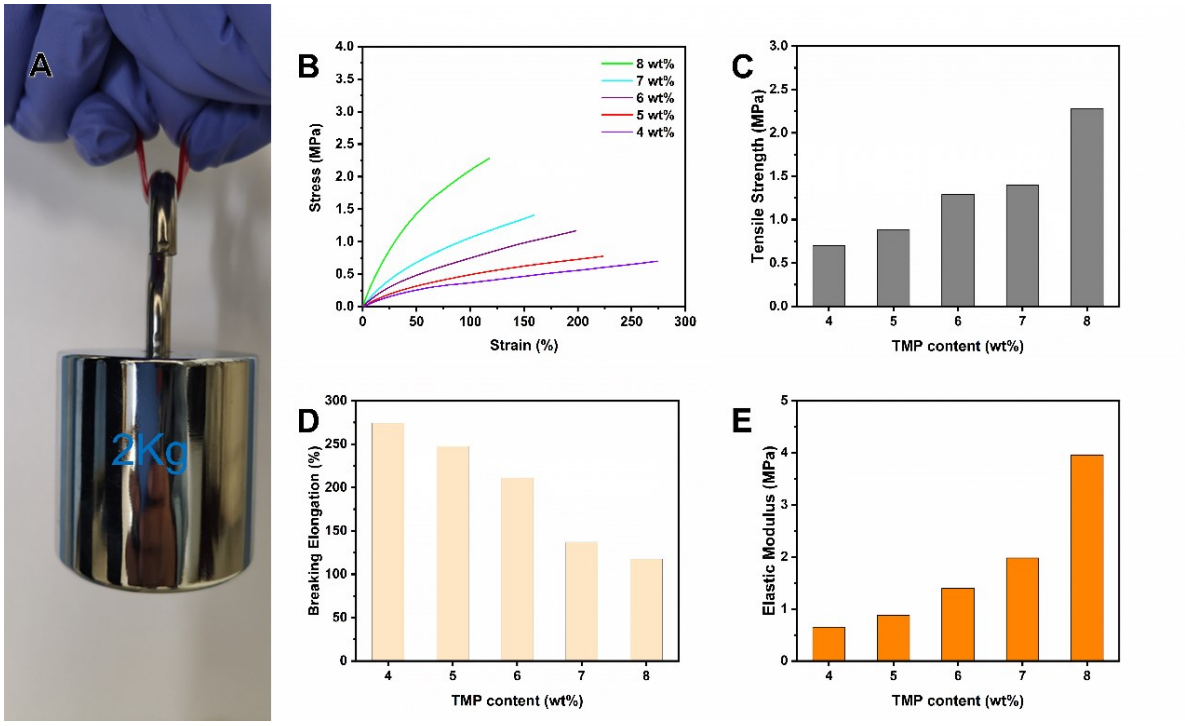

Figure S8. (A) Photo of weight capacity (B) Tensile strain-stress curves of PU-SP hydrogels; Mechanical properties of PU-SP hydrogels: (C) Tensile strength; (D) Breaking strain; (E) Elastic modulus.

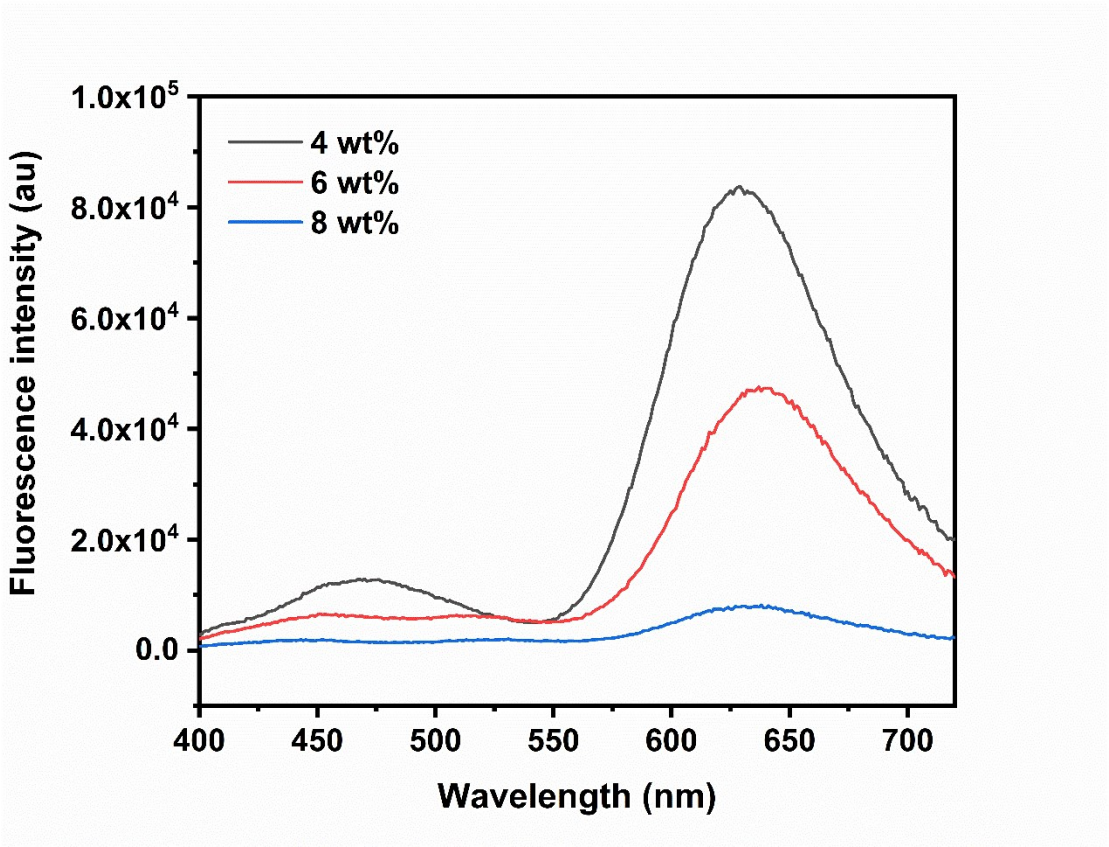

Figure S9. Fluorescence spectra of PU-TMP hydrogels.