**Supporting information:**

**A terpyridine luminophore: synthesis, photophysics and selective metal ion –mediated hydrogelation**

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Fig. S1. 1H NMR spectra for terpyridine ligand (DMPTP).



Fig. S2. 13C NMR spectra for terpyridine ligand (DMPTP)**.**



Fig. S3. HRMS data for terpyridine ligand (DMPTP)**.**



Fig. S4. Terpyridine (DMPTP) ligand, in different solvents (a) in naked eye (b) under UV lamp at 365 nm.



Fig. S5. Fluorescence decay of DMPTP in hexane and DMSO.



Fig. S6. TGA plots for Cu2+: terpyridine gel and Zn2+: terpyridine gel.