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Generating Water/MeOH-soluble and luminescent polymers by grafting 2,6-bis(1,2,3-triazol-4-yl)pyridine (btp) ligands onto a poly(ethylene-alt-maleic anhydride) polymer and cross-linking with terbium(III)

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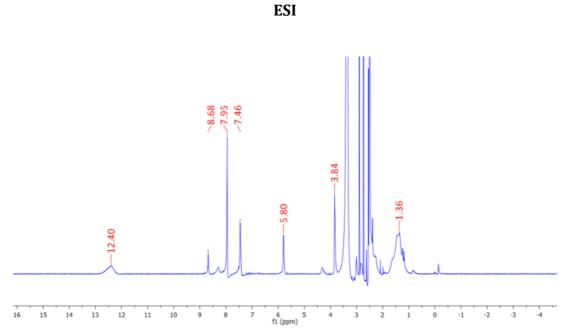


Figure S1. ¹H NMR spectrum (600 MHz, DMSO) of P2.

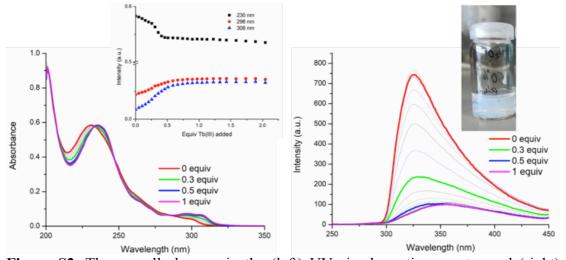


Figure S2. The overall changes in the (left) UV-vis absorption spectra and (right) fluorescence emission spectra ($\lambda_{exc} = 237$ nm) upon titrating **P2** (1×10⁻⁵ M) against Tb(CF₃SO₃)₃ (0→3 equiv.) in CH₃OH at RT. **Inset**: corresponding experimental binding isotherms of absorbance at $\lambda = 230$, 295 and 306 nm and photograph of **P2** dissolved in H₂O.

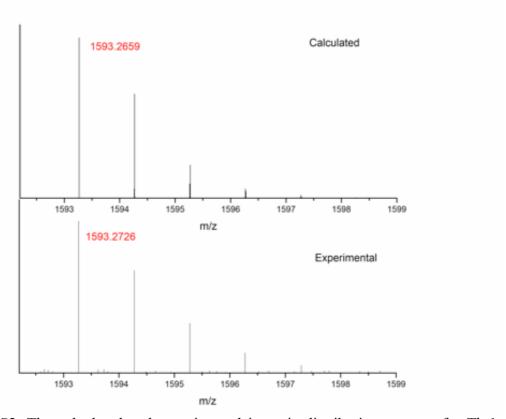


Figure S3. The calculated and experimental isotopic distribution patterns for Tb.1₂ showing the 1:2 metal:ligand stoichiometric pattern for a molecular species of the formula $[Tb(1)_2](CF_3SO_3)_2^+$.