

***In situ* 2,5-Pyrazinedicarboxylate and Oxalate Ligands Synthesis Leading to a
Microporous Europium-Organic Framework Capable of Sensing Small
Molecules**

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Supporting Information

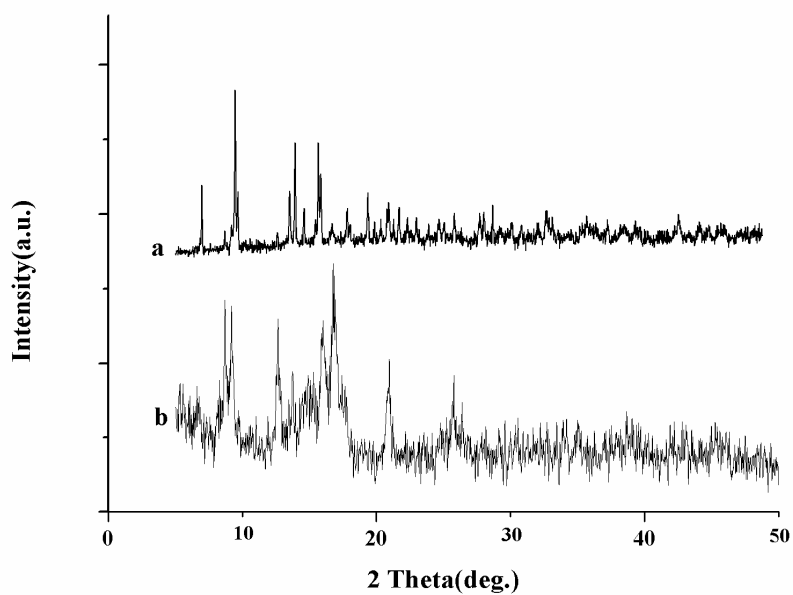


Fig. S1. Powder X-ray diffraction patterns of a) as-synthesized **1**, b) **1** after thermal treatment at 120 °C under a dynamic vacuum overnight.

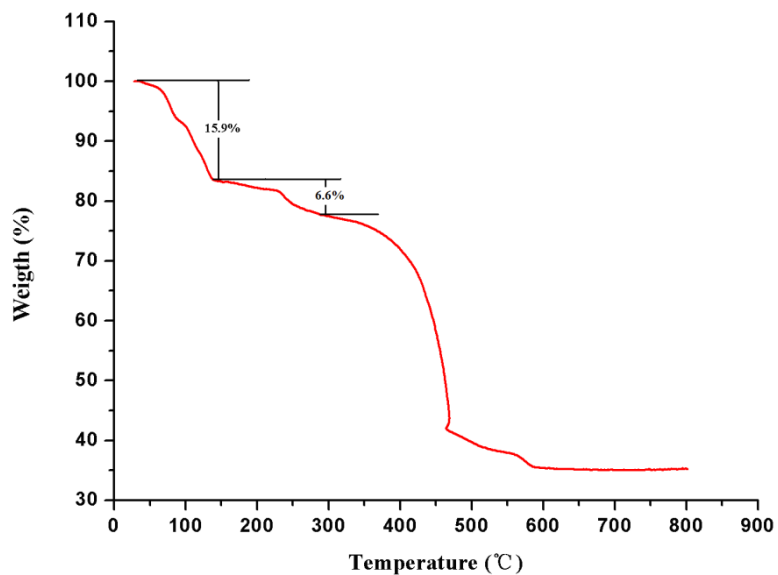


Fig. S2. TGA profile for **1**.

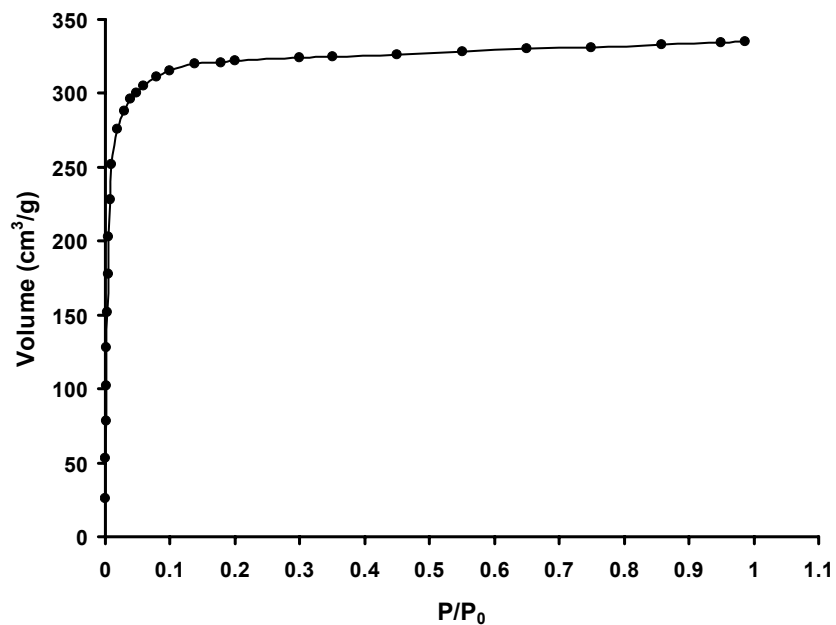


Fig. S3. N₂ adsorption isotherm measured at 77 K in **1a**.

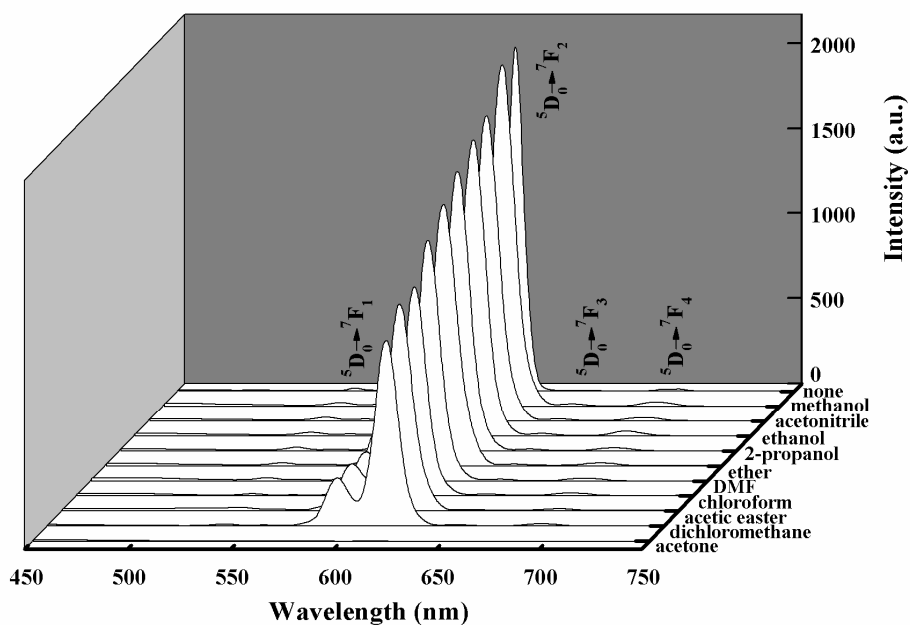
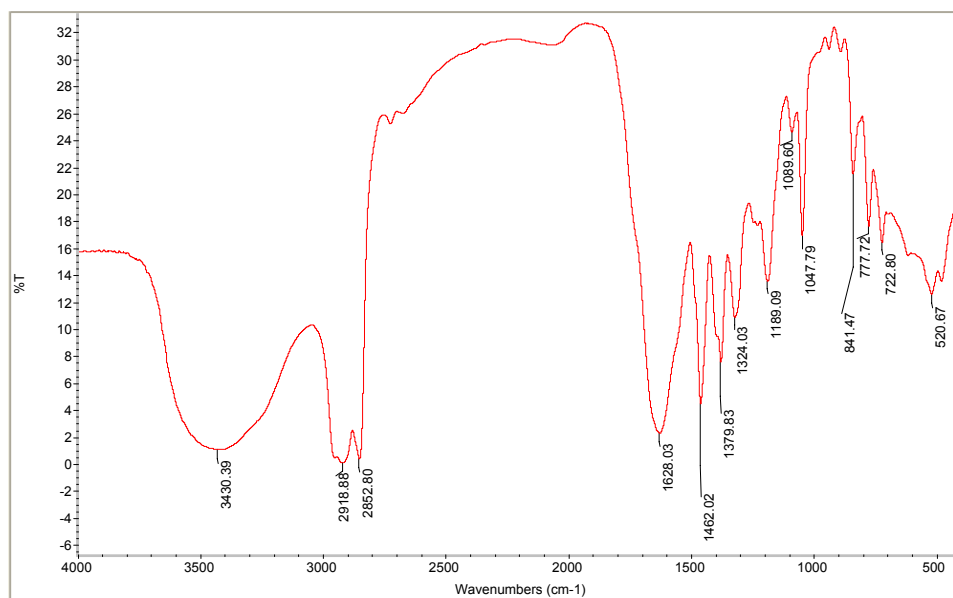


Fig. S4. PL spectra of **1a** introduced into various pure solvents when excited at 308 nm.

a)



b)

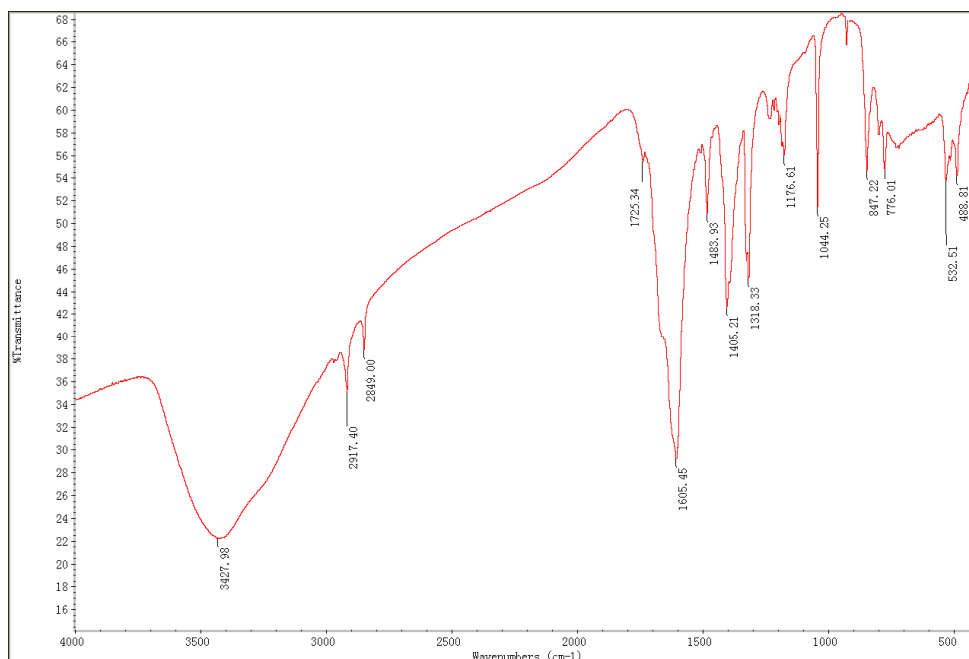


Fig. S5. IR spectra of a) as-prepared **1**, b) **1a** after immersed in pure acetone and dried at 40 °C. The peak at 1725 cm⁻¹, not present in as-prepared **1**, is attributed to the acetone molecules captured in the microporous framework.

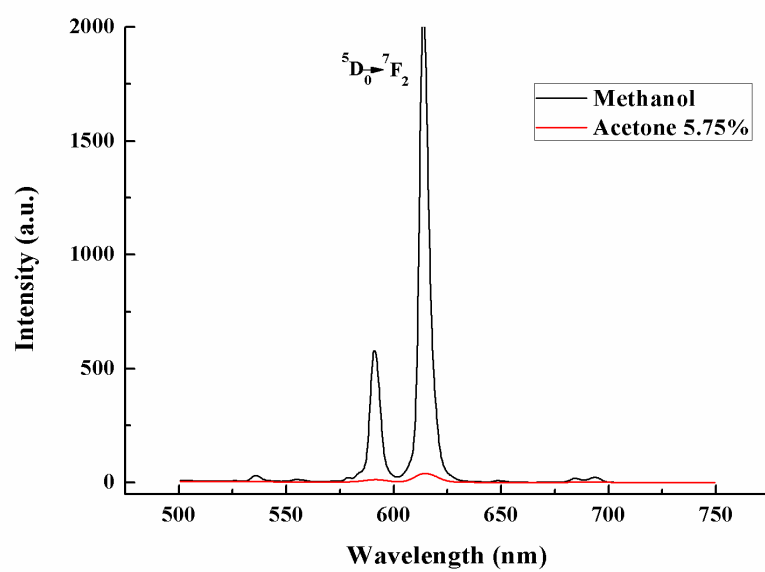


Fig. S6. The PL spectra of regenerated **1a** in methanol emulsion (black) and in the presence of 5.75% of acetone solvent (red).