



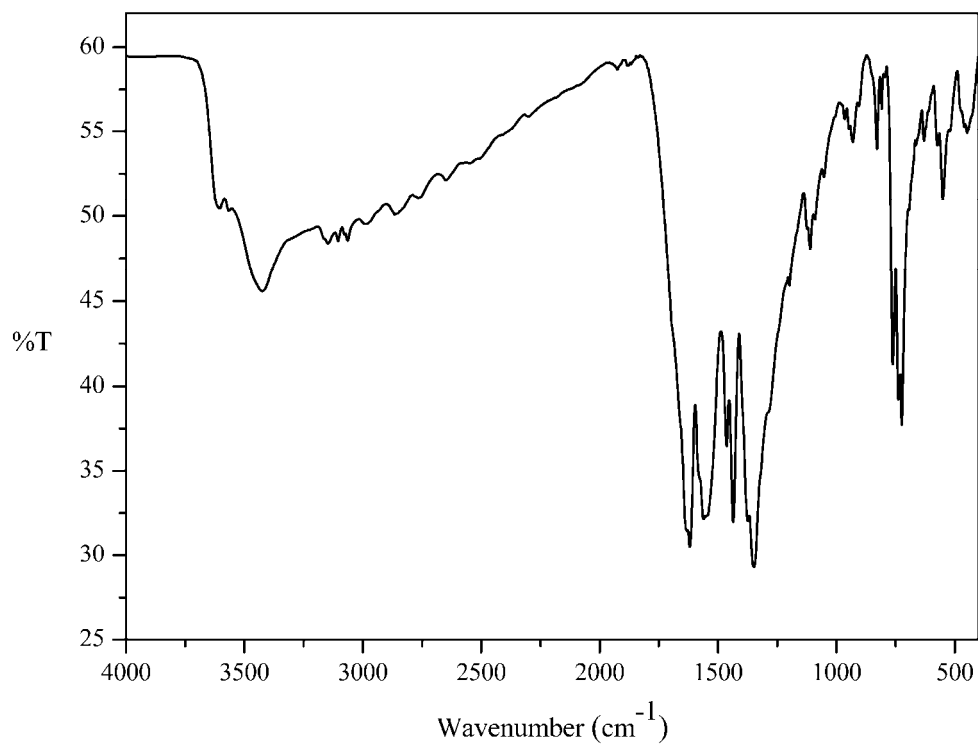
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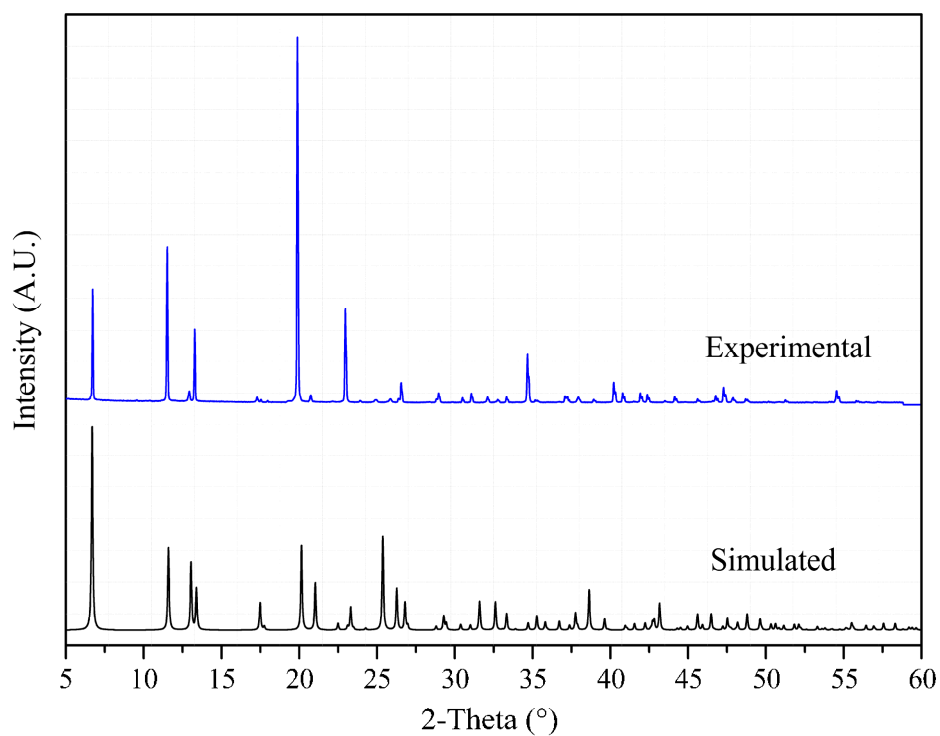
**Supporting information for article:**

**A new luminescent anionic metal–organic framework based on heterometallic zinc(II)–barium(II) for selective detection of Fe<sup>3+</sup> and Cu<sup>2+</sup> ions in aqueous solution**

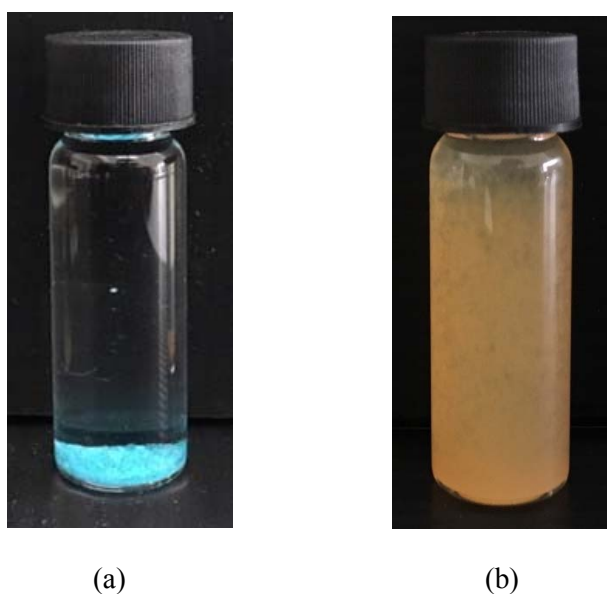
**Natthakorn Phadungsak, Filip Kielar, Winya Dungkaew, Mongkol Sukwattanasinitt, Yan Zhou and Kittipong Chainok**



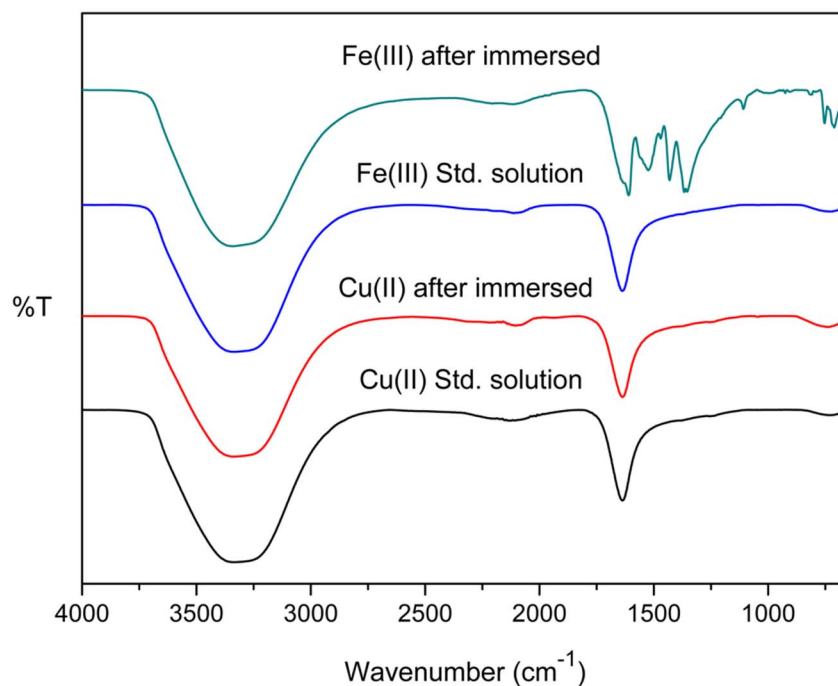
**Figure S1** Infrared spectrum of **1**.



**Figure S2** Comparison of the simulated and experimental PXRD patterns of **1**.



**Figure S3** The photographs of crystalline **1** after immersion in aqueous solutions of  $\text{Cu}^{2+}$  (a) and  $\text{Fe}^{3+}$  (b) overnight at ambient temperature.



**Figure S4** Comparison of the IR spectra (top-to-down) of aqueous solutions of  $\text{Fe}^{3+}$  after immersion in **1** (green),  $\text{Fe}^{3+}$  standard solution (blue),  $\text{Cu}^{2+}$  after immersion in **1** (red), and  $\text{Cu}^{2+}$  standard solution (black).