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Supporting information for article:

**Two zinc(II) coordination complexes based on an asymmetric
multidentate ligand: syntheses, structures, selective
fluorescence sensing of iron(III) ions and thermal analyses**

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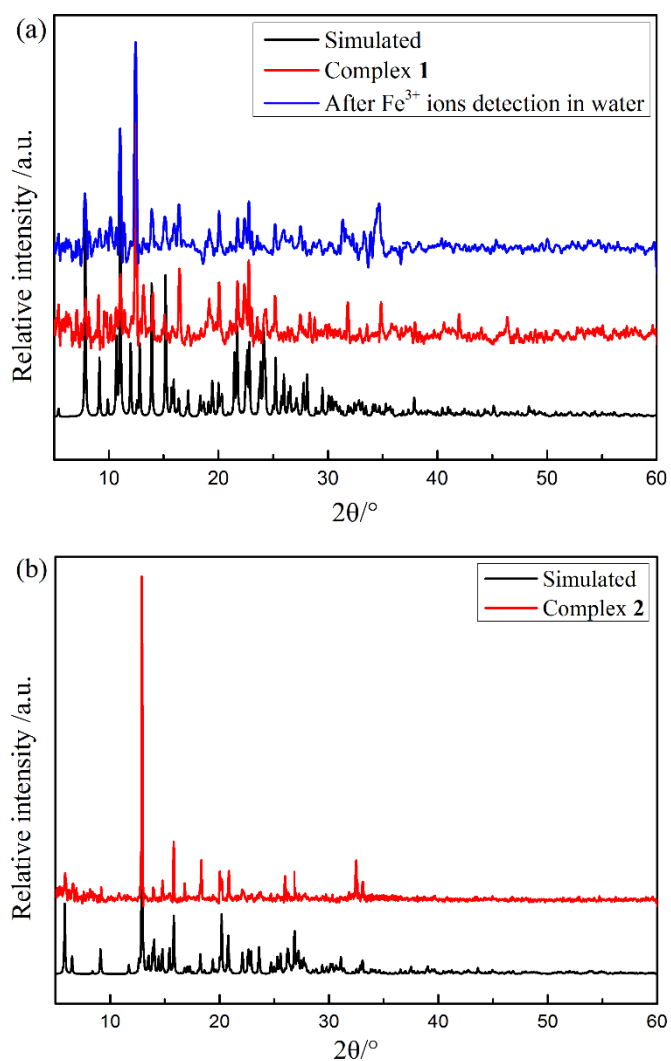


Fig. S1 (a) Experimental and simulated X-ray diffraction patterns of complex **1**. (b) Experimental and simulated X-ray diffraction patterns of complex **2**.

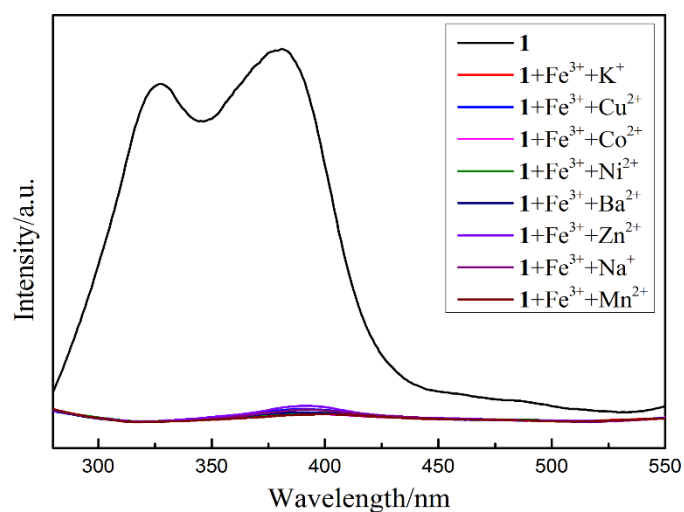


Fig. S2 The competition experiments of **1** for the detection of Fe³⁺ ions in the presence of K⁺, Cu²⁺, Co²⁺, Ni²⁺, Ba²⁺, Zn²⁺, Na⁺, Mn²⁺ ions.

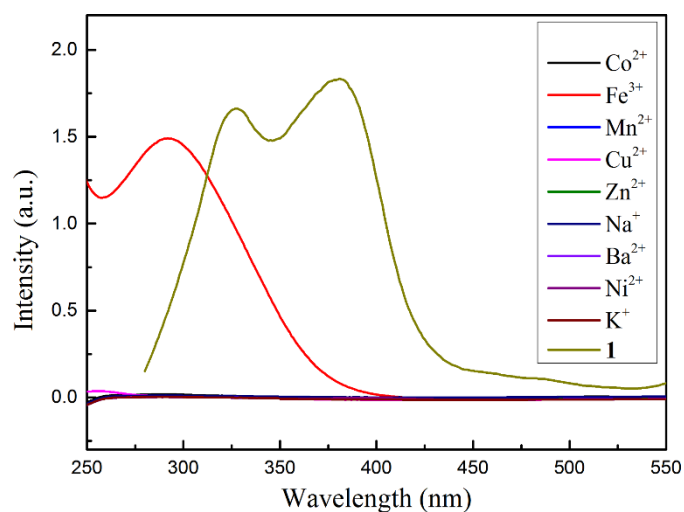


Fig. S3 Spectral overlap between absorbance spectra of different metal ions and emission spectrum of **1**.

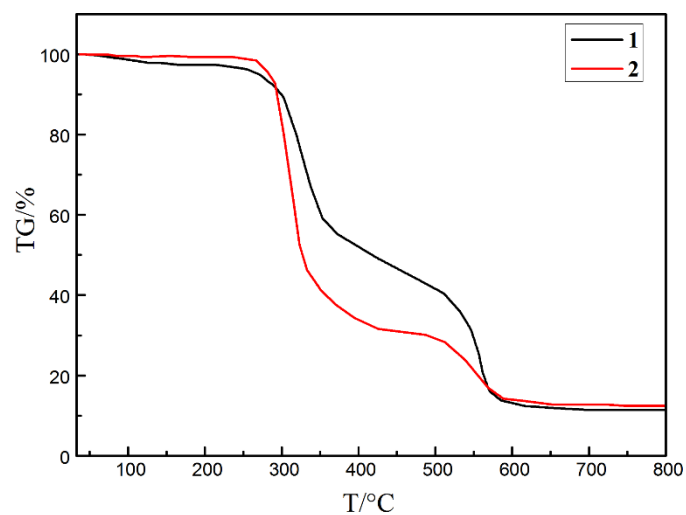


Fig. S4 The thermogravimetric analyses for complexes 1–2.

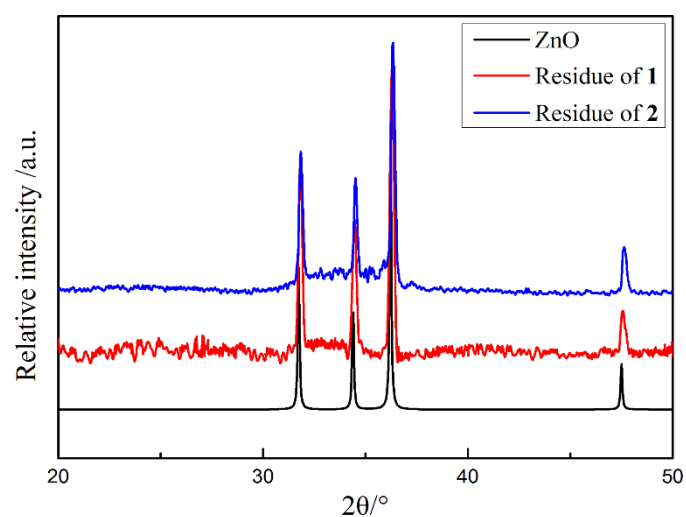


Fig. S5 The X-ray diffraction patterns of standard ZnO and thermogravimetric residues of 1–2.

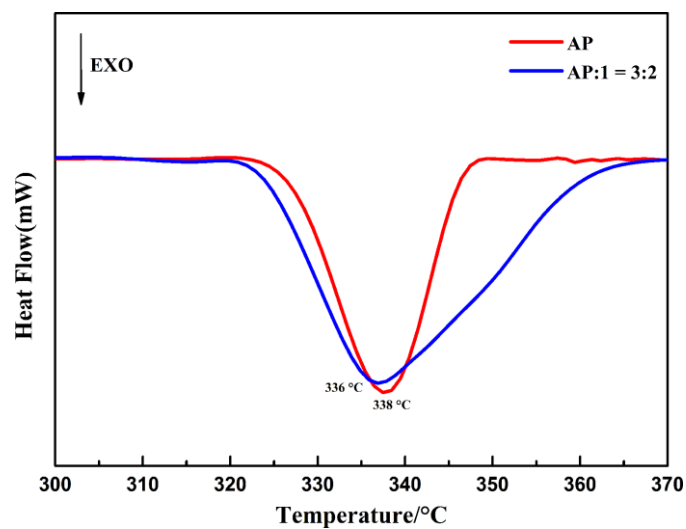


Figure S6 The DSC curves of pure AP and the mixture of AP and 1 at mass ratio of 3:2.