

Supporting Information

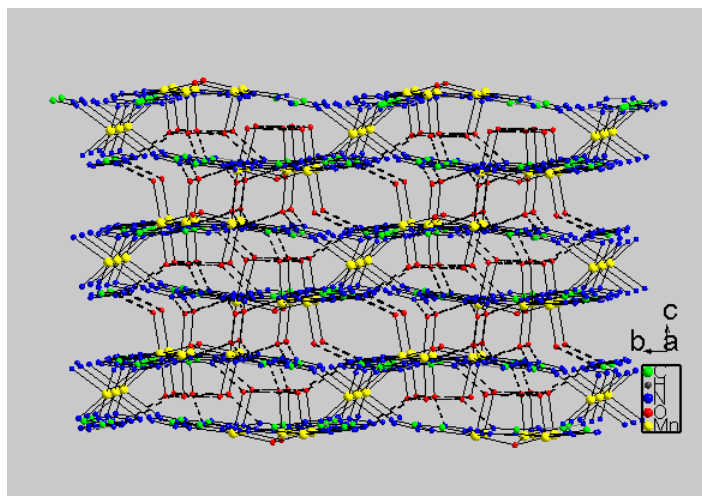


Fig. S1 The packing diagram of **3** showing the hydrogen bonds (dashed lines).

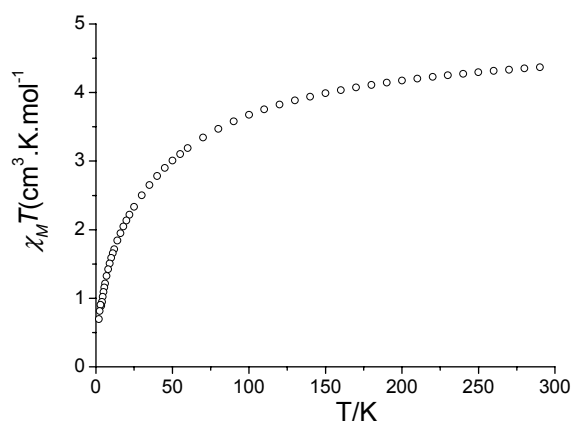


Fig. S2. the magnetic moment $\chi_M T$ versus T of **6** in the temperature range of 2-300K.

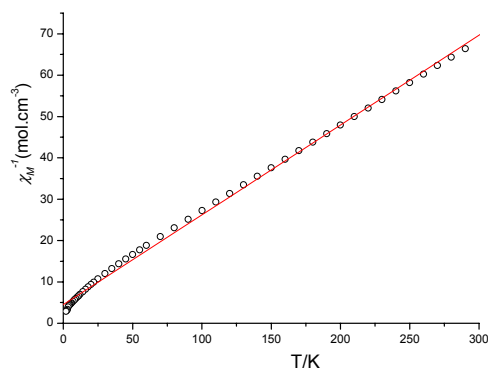


Fig. S3 The χ_M^{-1} versus T plot in the range from 300 to 2 K. The continuous red line represent the fit to the theoretical models.

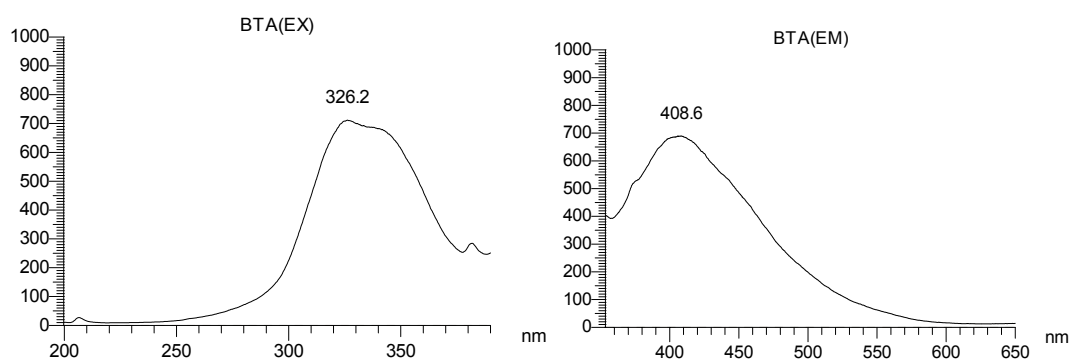


Fig. S4 The excitation spectrum (a) and emission spectrum of the solid sample of H_2BTA (b).

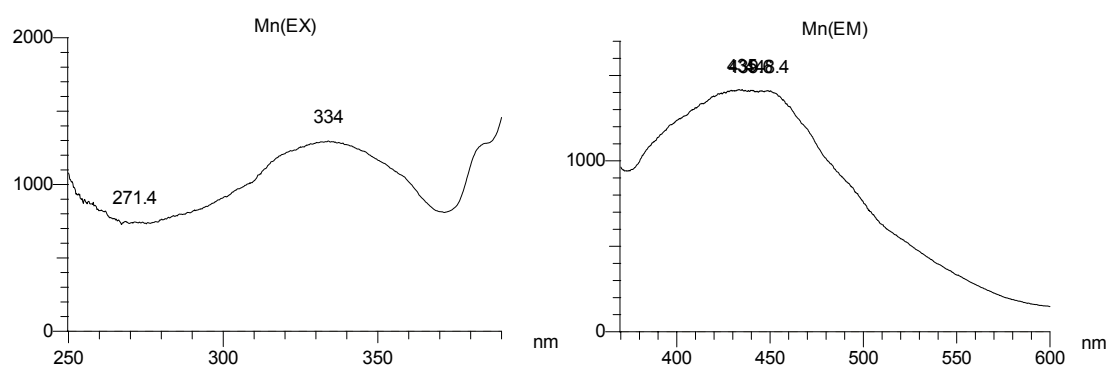


Fig. S5 The excitation spectrum (a) and emission spectrum of the solid sample of **5**.

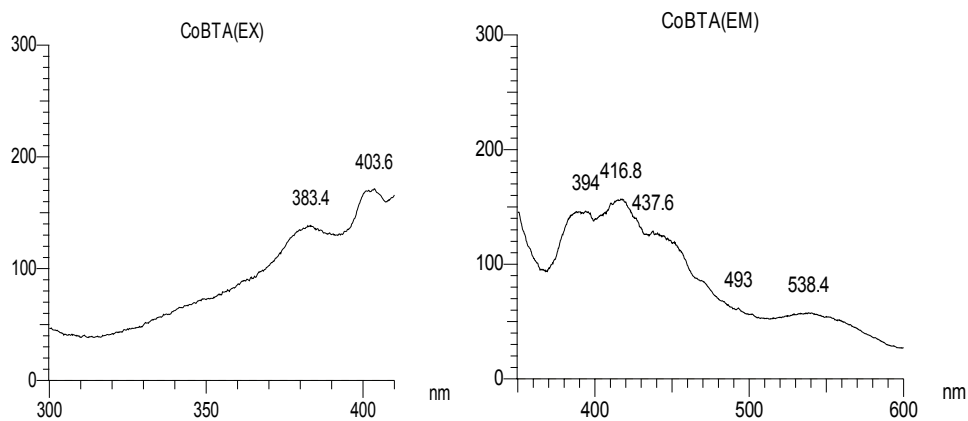


Fig. S6 The excitation spectrum (a) and emission spectrum of the solid sample of **6**.

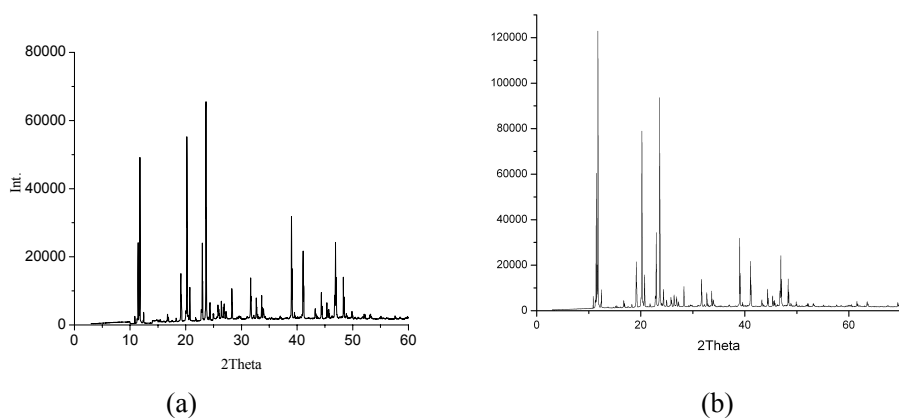


Fig S7 a) the predicted PXRD pattern of **2** based on the single crystal structure. b) is the PXRD of a polycrystalline sample of **2**.

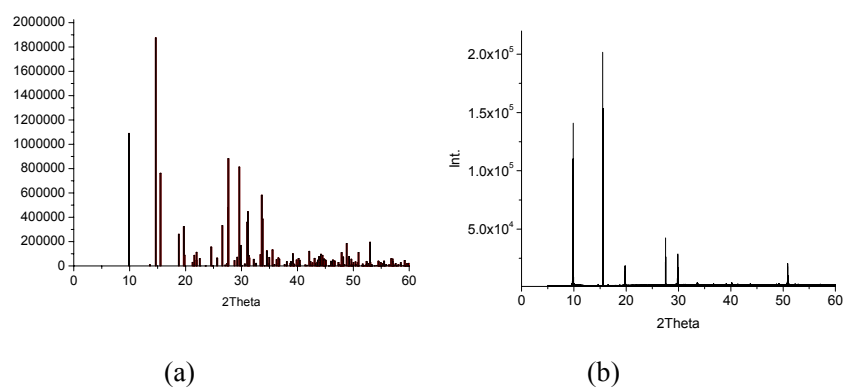


Fig. S8 a) the predicted PXRD pattern of **6** based on the single crystal structure. b) is

the PXRD of a polycrystalline sample of **6**.

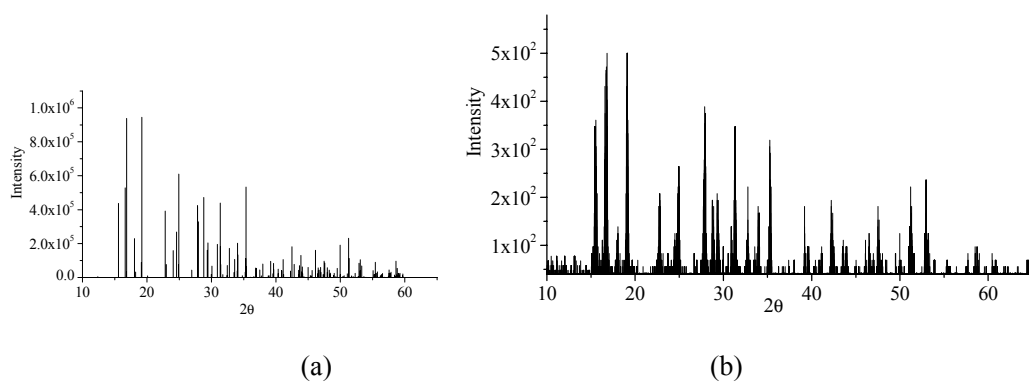


Fig. S9 a) the predicted PXRD pattern of **7** based on the single crystal structure. b) is the PXRD of a polycrystalline sample of **7**.