Supplementary information

Structure extending and cation exchange of Cd(II) and Co(II) materials compounds induce fluorescence signal mutation

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Figure S1. View of crystal packing in complex 3 along c-direction
Figure S2. View of crystal packing in complex 4 along $a$-direction
Figure S3. TGA trace for 3, Cu^{2+}-3, 4 and Cu^{2+}-4
**Figure S4.** Powder XRD patterns of series compounds

**Figure S5.** IR spectrum of series compounds
Figure S6. The excitation and emission spectra of the tp and btx in the solid state at room temperature.
Figure S7. SEM and EDS of compounds 1, 3 and 4