Supplementary Material (ESI) for Dalton Transactions
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Supporting information

**Figure S1.** IR spectra for compounds 1–4.

**Figure S2.** The TGA curves of compounds 1–4.

**Figure S3.** The XRD patterns of compounds 1–4.
Figure S4. XRD patterns for compounds 1-4 before and after the removal of lattice water at certain temperatures (1: 137°C, 2: 147°C, 3: 190°C, 4: 165°C) and the corresponding re-hydrated products.
Figure S5. XRD patterns for compounds 1-4 before and after the removal of both lattice and coordination water at certain temperatures (1: 320°C, 2: 320°C, 3: 400°C, 4: 400°C) and the corresponding re-hydrated products.
Figure S6. Zero field cooled (ZFC) and field cooled (FC) magnetization versus T measures at 10 Oe for 2.

Figure S7. Magnetization of 2 at 1.8 K.

Figure S8. Zero field cooled (ZFC) and field cooled (FC) magnetization versus T measures at 10 Oe for 3.
**Figure S9.** Magnetization of 3 at 1.8 K.

**Figure S10.** Zero field cooled (ZFC) and field cooled (FC) magnetization versus T measures at 10 Oe for 4.

**Figure S11.** Magnetization of 4 at 1.8 K.