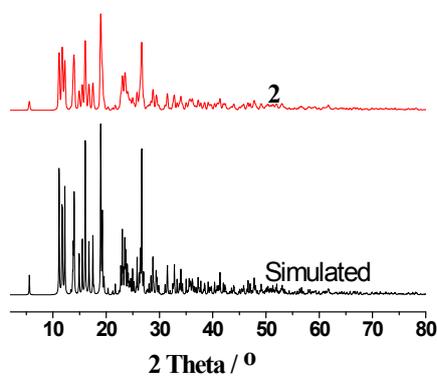
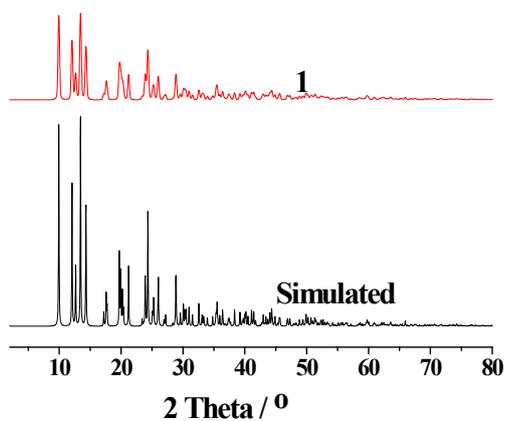


Supporting Information for

**Three new metal coordination polymers of bifunctional imidazolate/tetrazolate
bridges: the only example of three- dimensional framework based on rare**

$[\text{Co}_4(\mu_3\text{-OH})_2(\mu_2\text{-Cl})_2]^{4+}$ mixed oxo-chloro-clusters

Lili Yang, Jian Zhou, Hua-Hong Zou, and Qiuling Tang



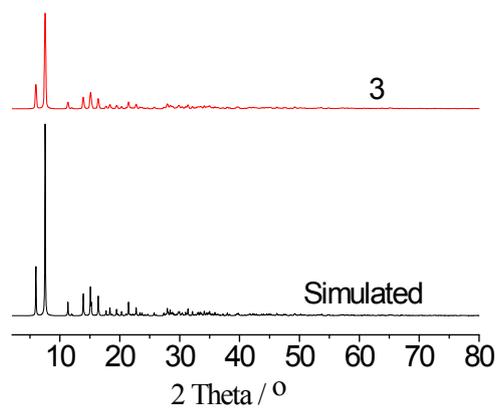


Fig. S1 Simulated and experimental powder XRD patterns of **1-3**.

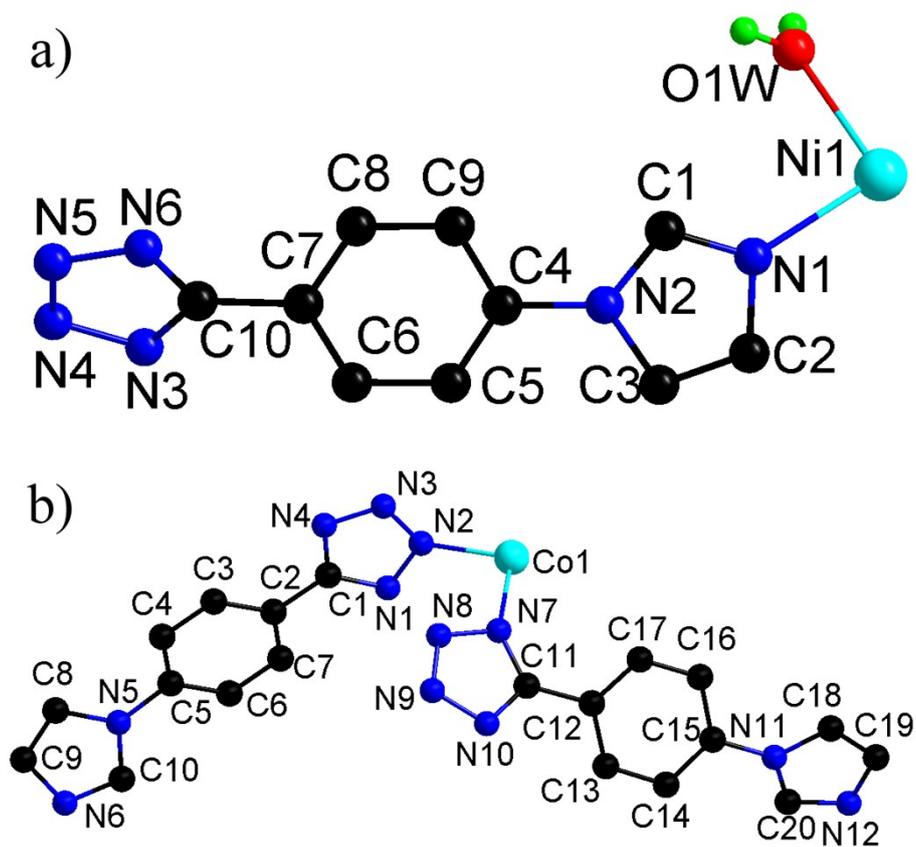


Fig. S2 The asymmetric units of **1** (a) and **2** (b) with labeling scheme. H atoms bonded to C atoms are omitted for clarity.

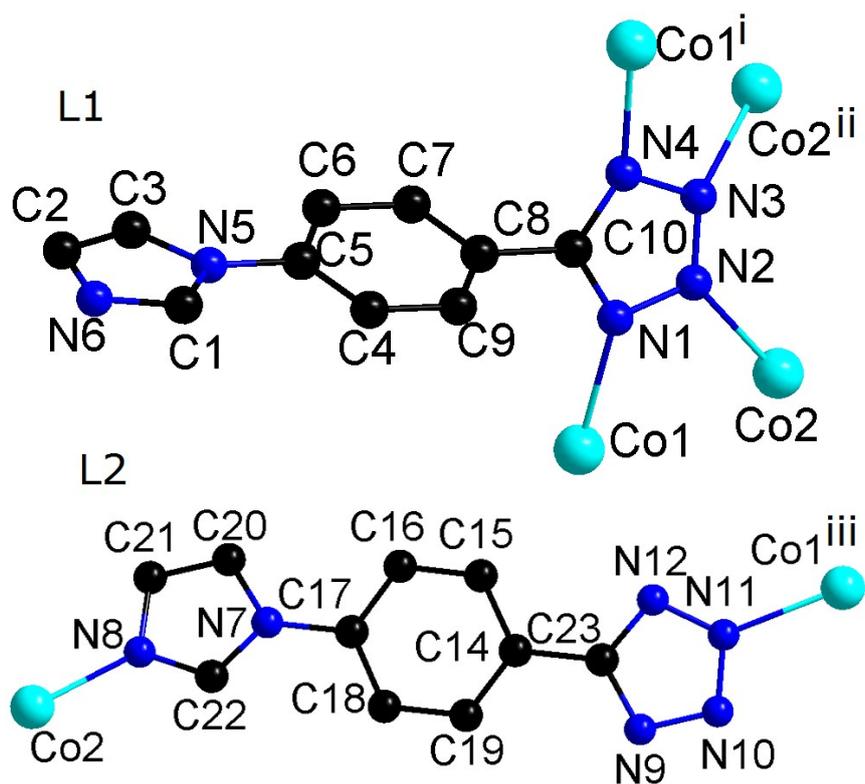


Fig. S3 The bridging modes of L- ligand in **3**. [Symmetry operation: (i) $x, 1+y, z$; (ii) $-x, 1-y, 1-z$; (iii) $-0.5+x, 0.5-y, -0.5+y$]

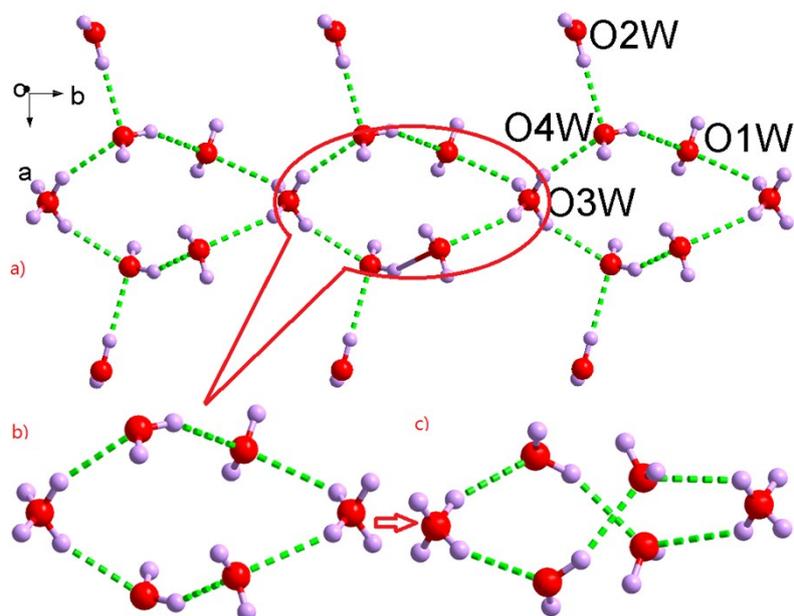


Fig. S4 a) 1-D chilopod $[(\text{H}_2\text{O})_7]_n$ chain. The single $(\text{H}_2\text{O})_6$ cluster unit {left, top view (b); right, side view(c)}.

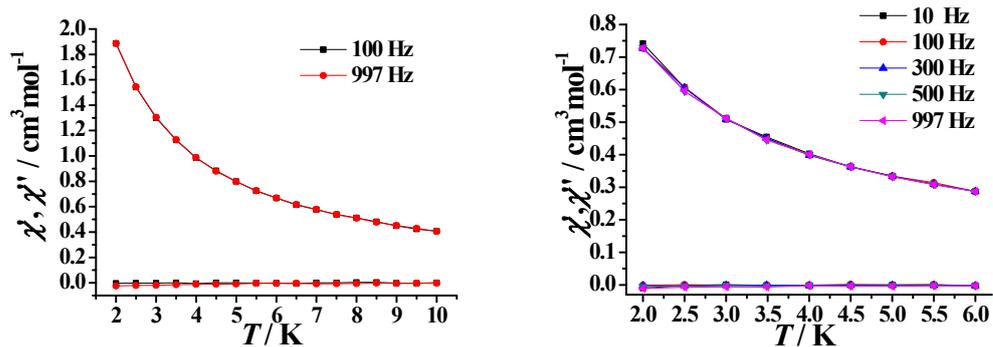


Fig. S5. Temperature dependence of in-phase and out-of-phase ac susceptibilities of **1** (left) and **2** (right) at different frequency in zero dc field and 2.5 Oe ac field.

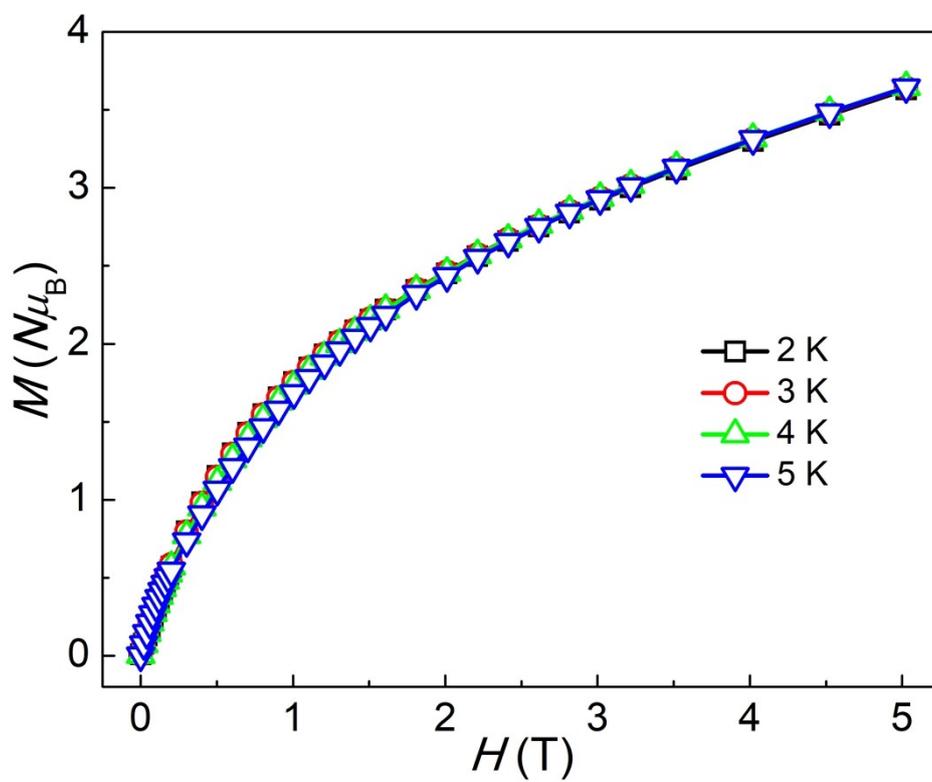


Fig. S6 The magnetization versus the dc field in the temperature range of 2–5 K for **1**.

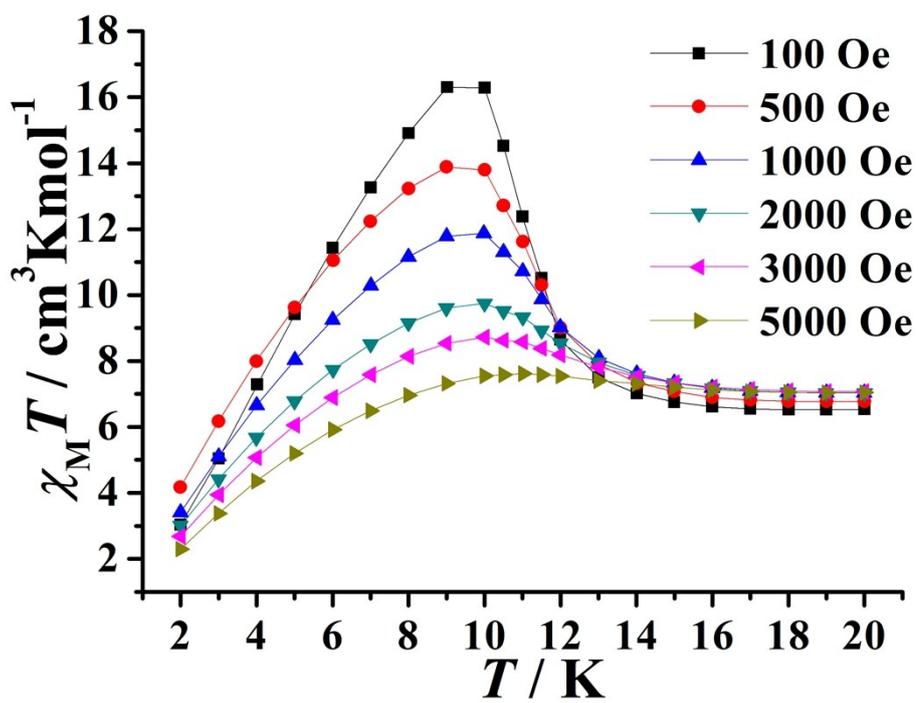


Fig. S7 Temperature dependence of the field-cooled magnetic susceptibility of 3.