Supporting Information

Rational design of two bpy-bridged 3D and 2D Co^{II} open frameworks

with similar amino-acid-based Schiff bases

Zong-Ze Li, Lin Du, Jie Zhou, Ming-Rong Zhu, Fen-Hua Qian, Jing Liu, Peng Chen, Qi-Hua Zhao*

Department of Chemistry, Key Laboratory of Medicinal Chemistry for Natural Resource, Ministry of Education, Yunnan University, Kunming, 650091, P.R.China. E-mail: qhzhao@ynu.edu.cn; Fax: +86 871 5032929; Tel: +86 871 5032929.

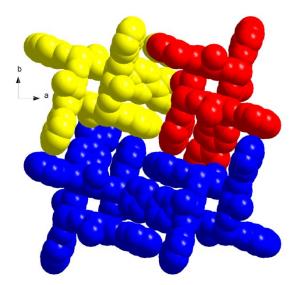


Fig. S1 A space-filling model of the 3-fold interpenetration in complex 1, showing the open square channels with dimensions of $\sim 4.9 \times 4.9 \text{ Å}$ along the c direction (water molecules omitted).

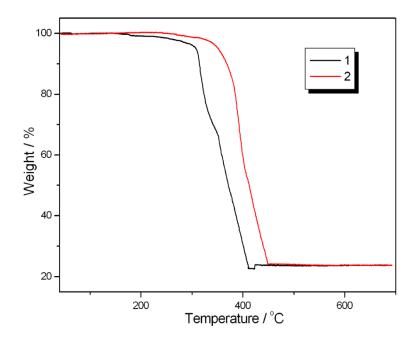


Fig. S2 TG curves for complexes 1 - 2.

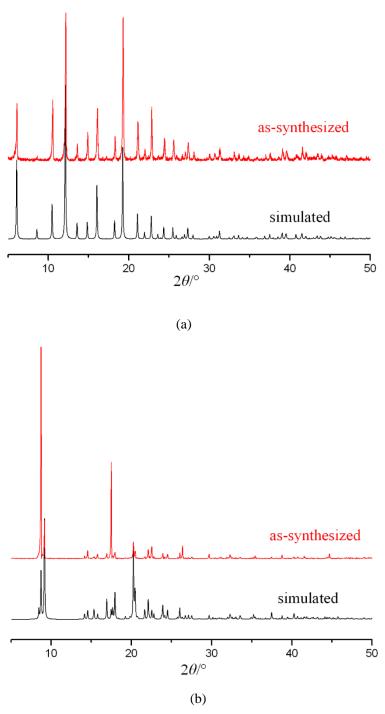


Fig. S3 Simulated (black) and as-synthesized (red) X-ray powder diffraction patterns for ${\bf 1}$ (a) and ${\bf 2}$ (b).

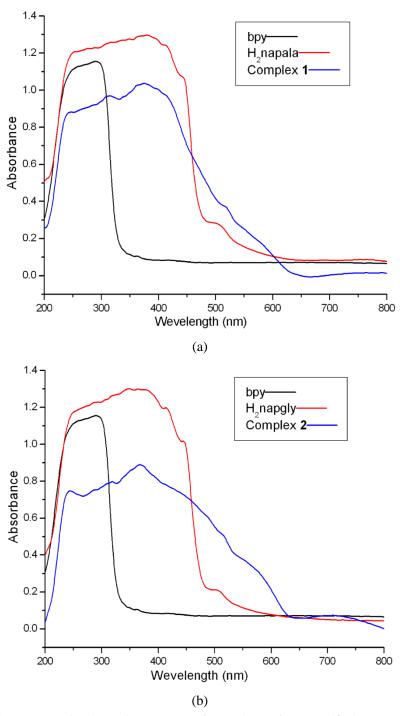


Fig. S4 Solid-state UV-Vis absorption spectra of complexes $\mathbf{1}$ (a) and $\mathbf{2}$ (b) as well as the free organic ligands with BaSO₄ as the background.