An unprecedented (3,4,14)-connected 3D metal–organic framework based on planar octanuclear lead(II) cluster as a secondary building unit

Sheng-Run Zheng,*a Song-Liang Cai,*a Mei Pan,b Jing-Bo Tan*,a Jun Fan,a Wei-Guang Zhang*aa

Supporting information

Materials and physical measurements
Elemental analyses of C, H and N were measured with a Thermo FlashEA112 elemental analyzer. IR spectra were recorded by using Shimadzu IR Prestige-21 spectromete with KBr pellets in the range from 4000 to 400 cm$^{-1}$. X-ray powder diffraction measurements were performed on a Bruker D8 Advance diffractometer at 40 kV, 40 mA with a Cu-target tube and a graphite monochromator. Solid-state fluorescence spectra were measured by using a Hitachi-2500 spectropho-tometer with a 150 W xenon lamp as light source at room temperature. Thermogravimetric analyses (TG) were determined with a Netzsch STA409PC Thermal Analyzer from room temperature to 800 °C under air atmosphere.

Fig. S1 The 3D framework of 1.
**Fig. S2** The simulated X-ray powder diffraction patterns (lower) and the measured one (upper) of complex 1.

**Fig. S3** The TGA curves of 1.