

Supporting Information

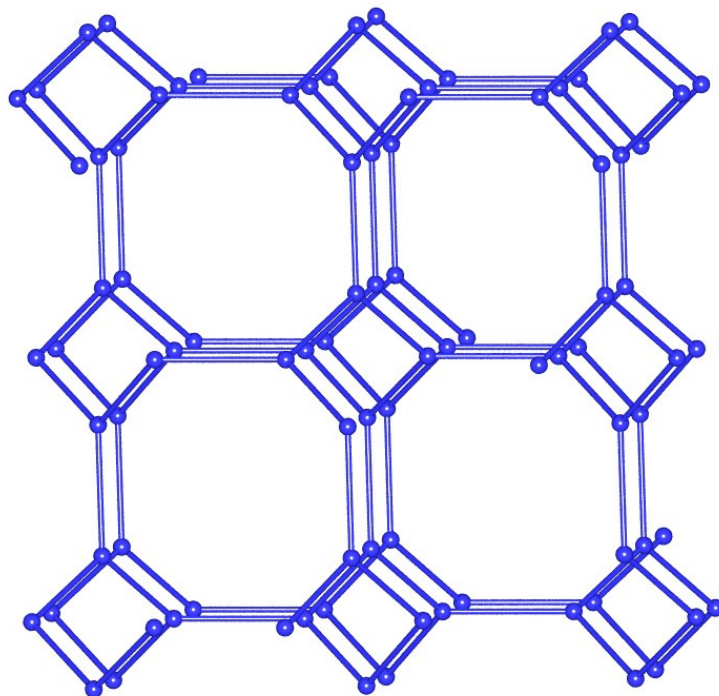
Metal-organic replica of γ -Pu: the first uninodal 10-connected coordination network based on pentanuclear cadmium clusters

Xin-Long Wang, Chao Qin, Ya-Qian Lan, Kui-Zhan Shao, Zhong-Min Su*, and

En-Bo Wang*

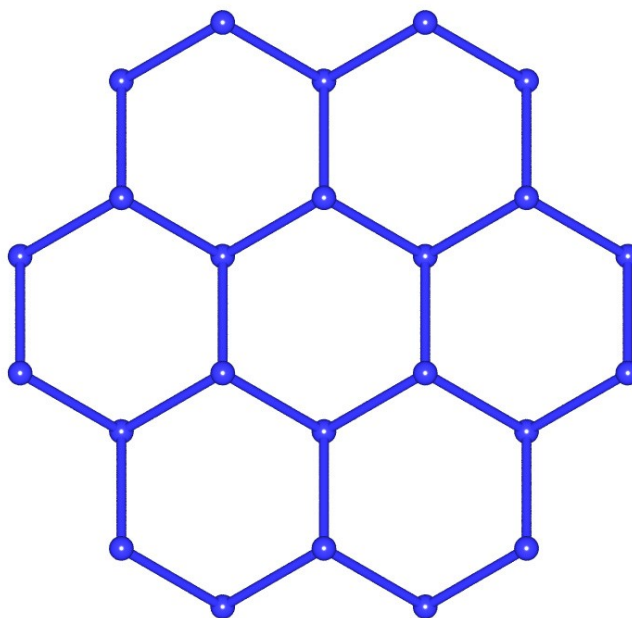
Institute of Functional Materials, Department of Chemistry, Key Laboratory of Polyoxometalates Science of Ministry of Education, Northeast Normal University, Changchun, 130024, China.

Mineral topologies that have been imitated in MOFs are listed below:



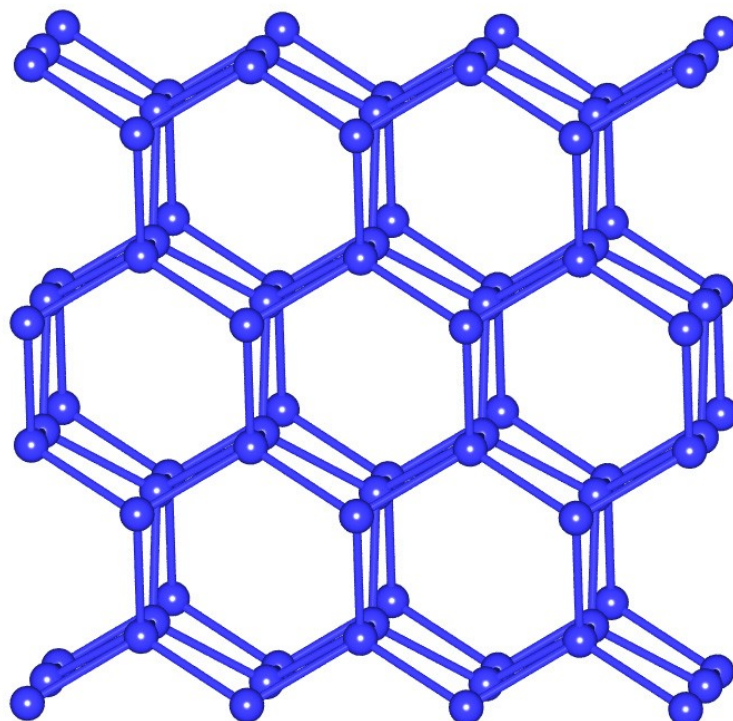
SrSi₂

J. Am. Chem. Soc. 1997, 119, 2861 – 2868;



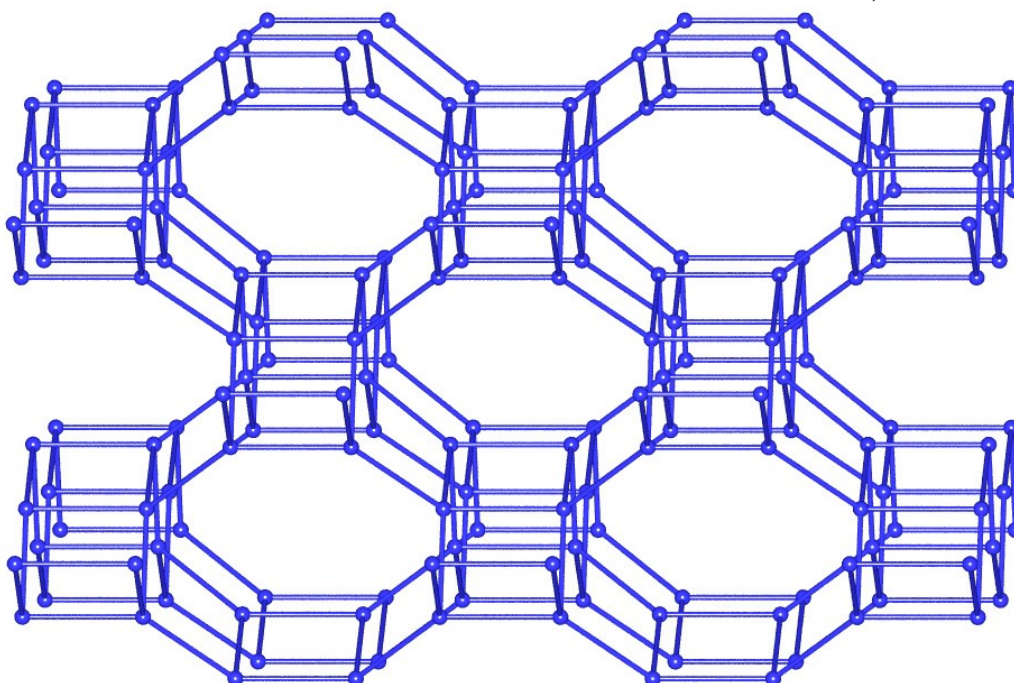
Perovskite

Angew. Chem. Int. Ed. 2000, 39, 2699 – 2701



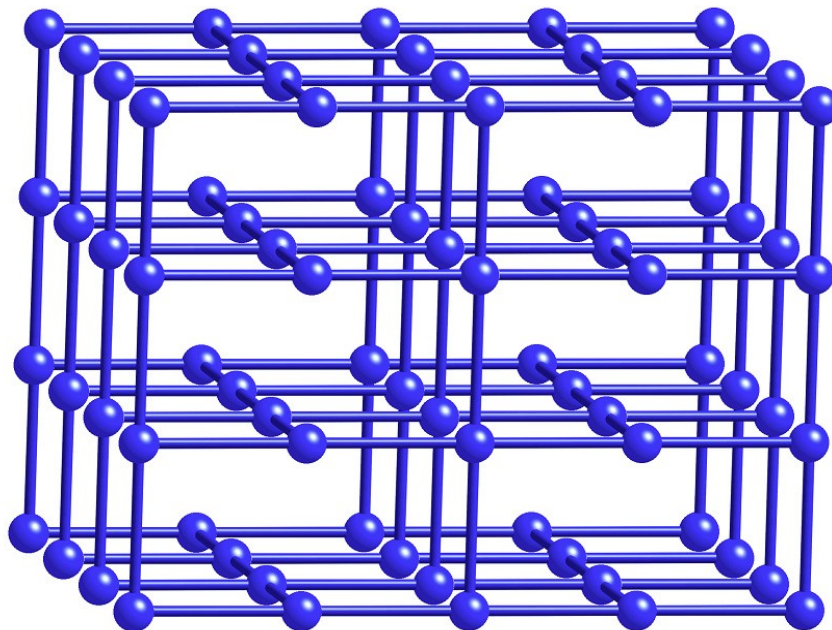
Diamond

Dalton Trans. 2000, 3735 – 3744

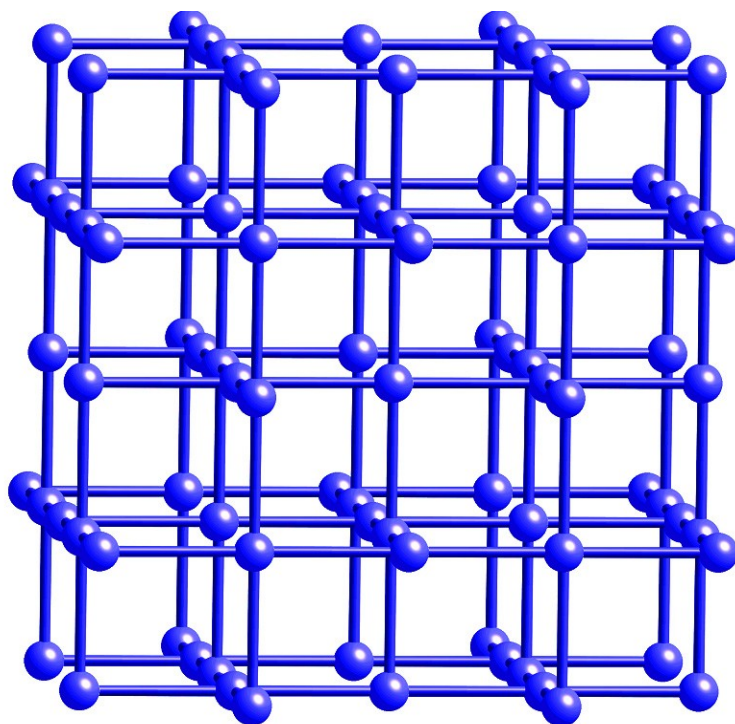


Feldspar

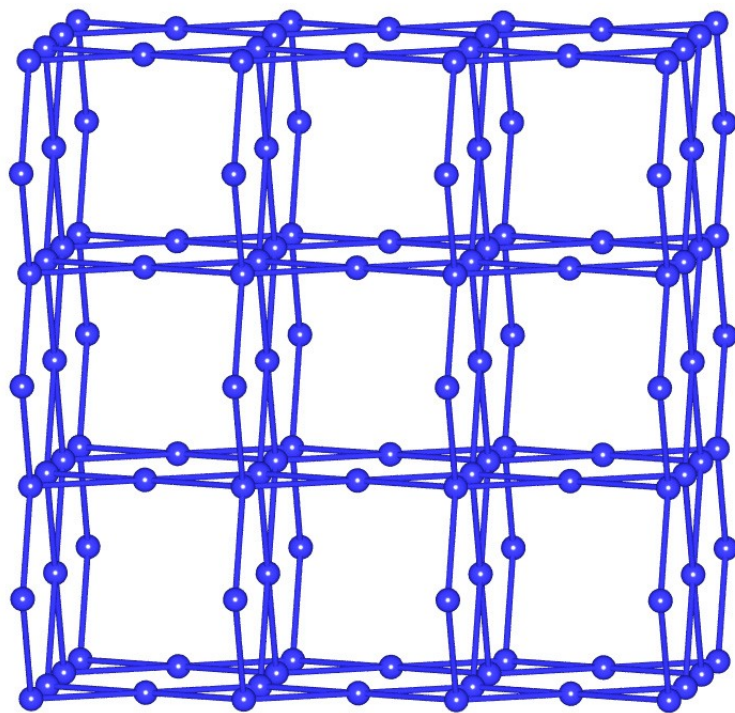
Angew. Chem. Int. Ed. Engl. 1997, 36, 247 – 248



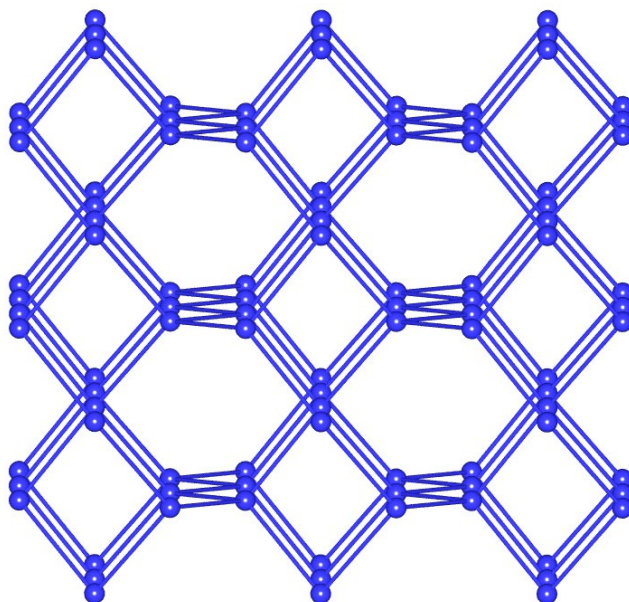
CdSO₄
Proc. Natl. Acad. Sci. USA 2002, 99, 4900 – 4904



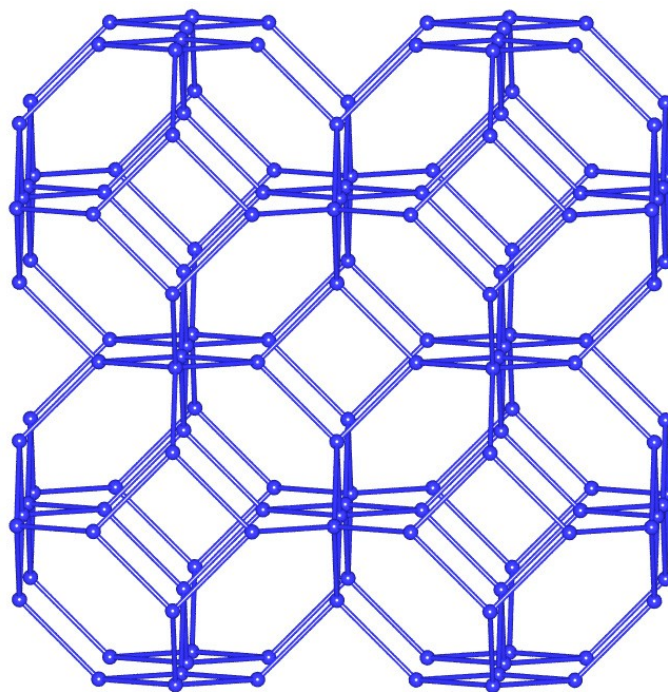
NbO
J. Am. Chem. Soc. 2002, 124, 376 – 377



PtS
J. Chem. Soc. Chem. Commun. 1990, 762 – 763

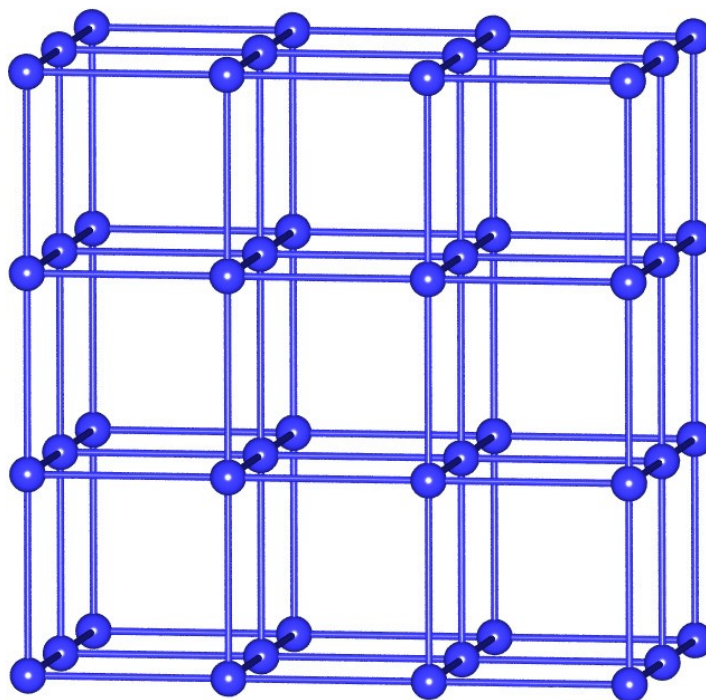


Quartz
Angew. Chem. Int. Ed. Engl. 1995, 34, 1203 – 1204



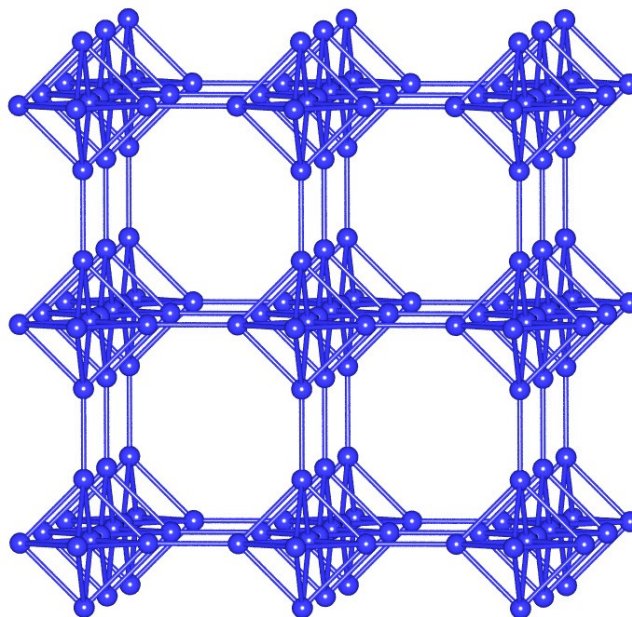
Sodalite

Angew. Chem. Int. Ed. 2003, 42, 1111 – 1115



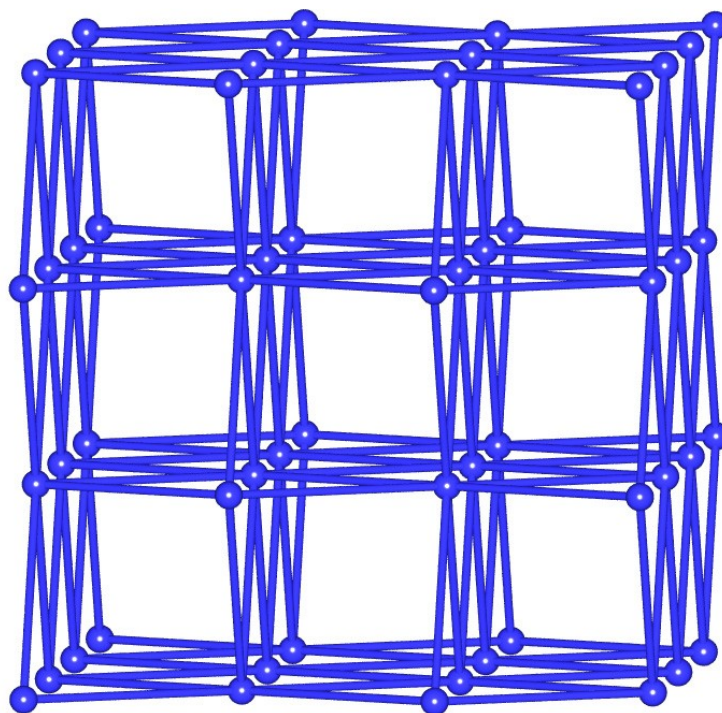
α -Po

Angew. Chem. Int. Ed. Engl. 1997, 36, 2752 – 2755



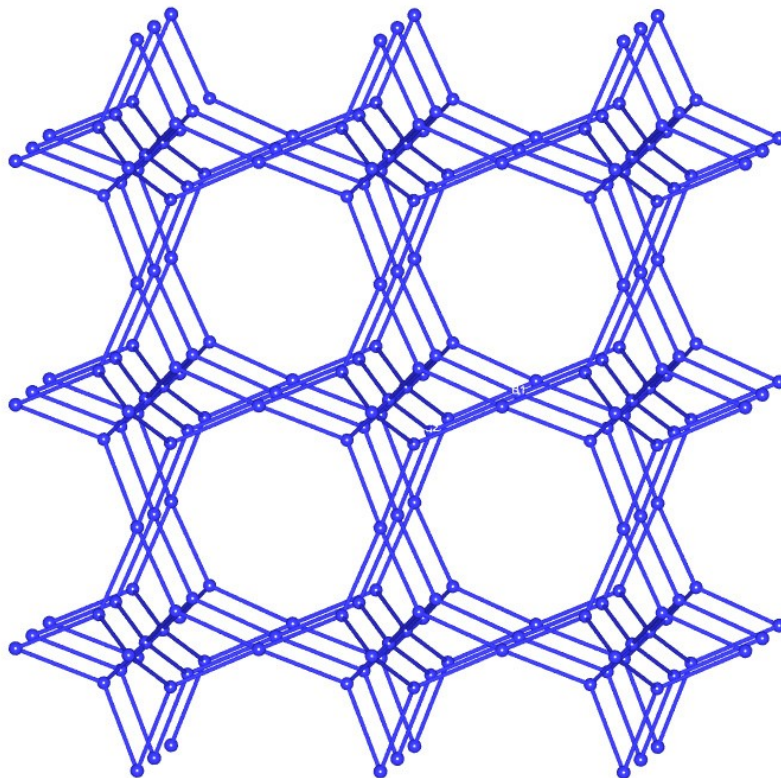
CaB₆

J. Am. Chem. Soc. 2001, 123, 8239 – 8247



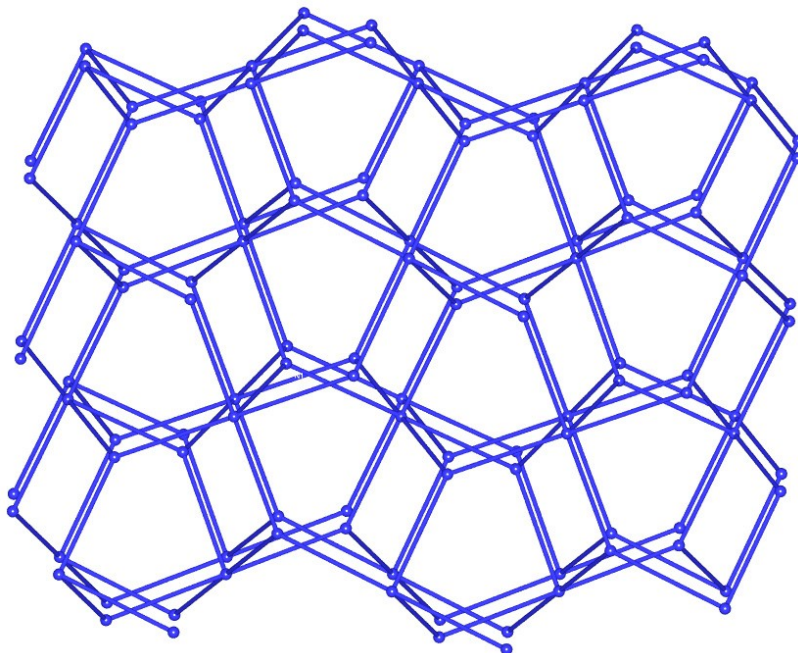
CsCl

Acc. Chem. Res., 2005, 38, 176.



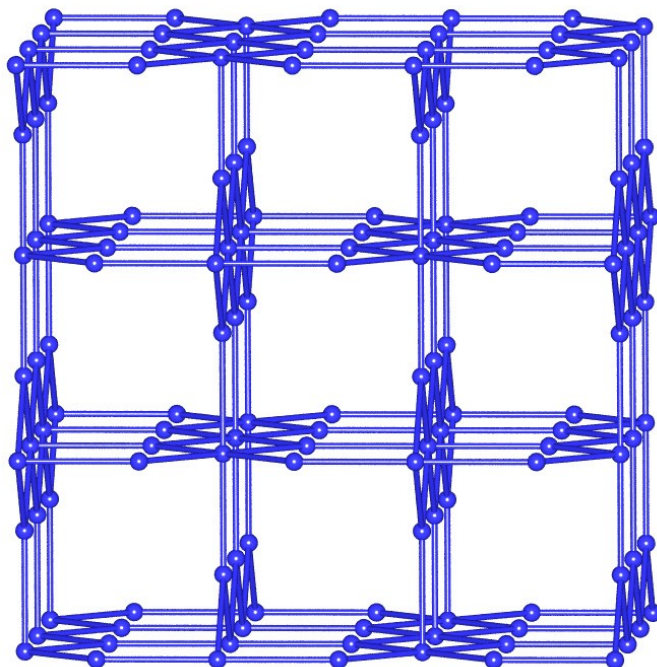
Brocite

Angew. Chem. Int. Ed. Engl. 1996, 35, 1690 – 1692

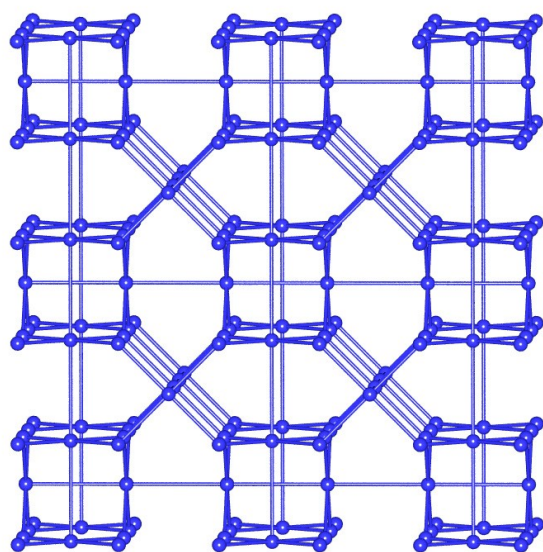


Pyrite

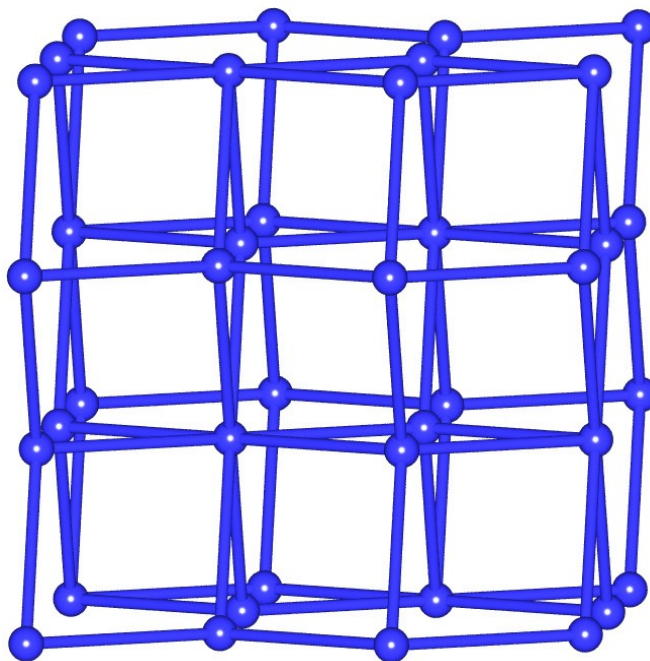
Angew. Chem. Int. Ed. 2003, 42, 3907 – 3909



Rutile
J. Chem. Soc. Chem. Commun. 1991, 445 – 447



Pt₃O₄
Inorg. Chem. 1995, 34, 757 – 758



CaF₂

Angew. Chem. Int. Ed. 2004, 43, 971 –971

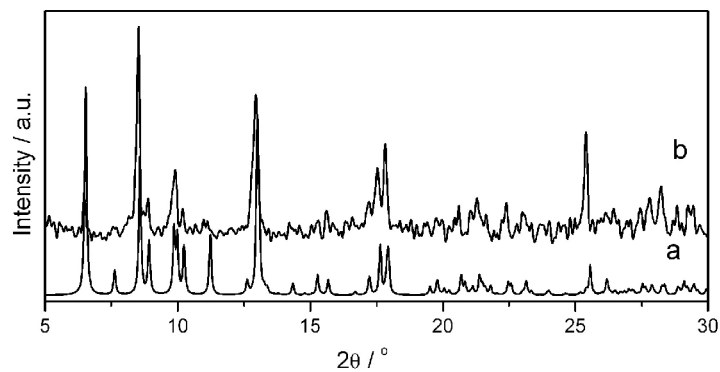


Fig. S1 PXRD patterns for **1**: a) simulated from single-crystal X-ray diffraction data and b) as-synthesized solids.

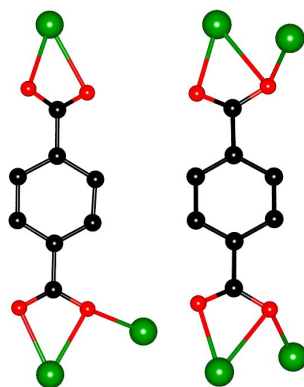


Fig. S2 Carboxylate binding modes in **1**. Color code: C black; O red; Cd green.

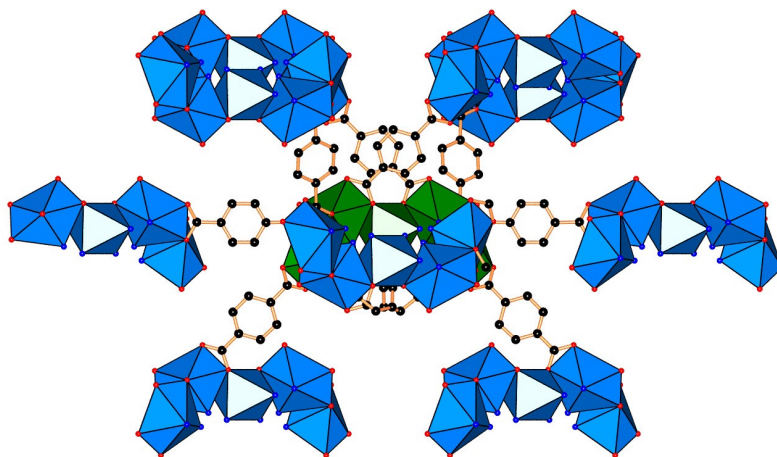


Fig. S3 View of the linkages of a pentacadmium core (green) with ten adjacent cores (blue).

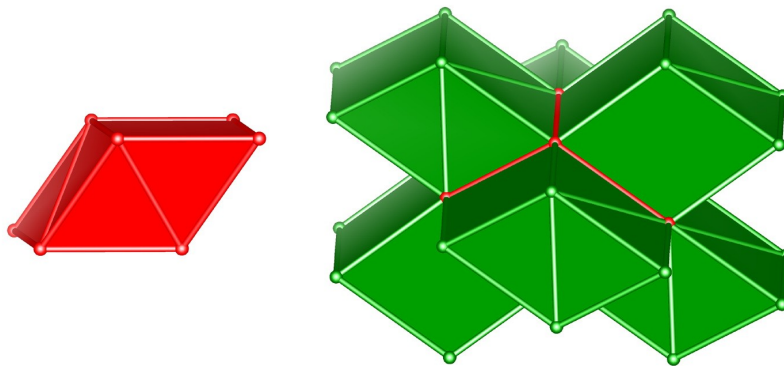


Fig. S4 The primitive cubic (**pcu**) packing of the 3D framework when each cage as a supramolecular building block is considered as a 6-connected node.

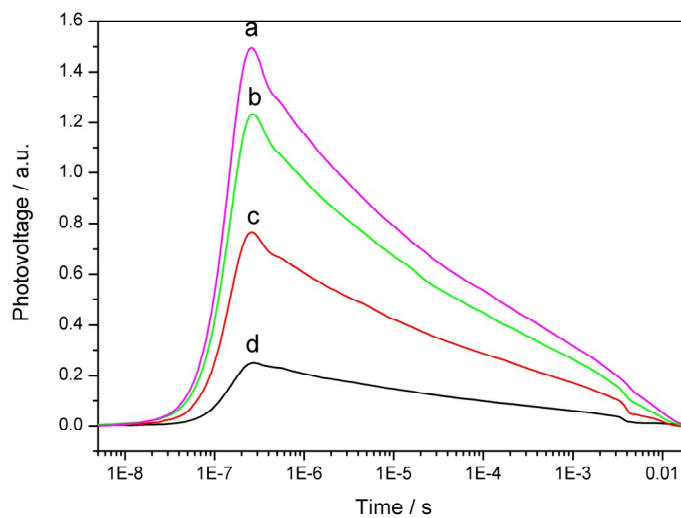


Fig. S5 The transient PV response of the ITO/compound **1**/ITO sandwich cell under illumination of 355 nm pulse laser at various intensities. From curves **a** to **d**, the corresponding light intensities are 0.05, 0.1, 0.2 and 0.3 mJ.