

Supplementary Information

Table S1. Refined structural parameters for non-H atoms of $[V_4O_4(OH)_2(O_2CC_6H_4CO_2)_4] \cdot DMF$ with esds in parentheses.

ATOM	WYCKOFF POSITION	X	Y	Z	B _{ISO} [Å ²]
V1	2m	0.5000	1.0000	0.2820(6)	7.1(6)
V2	2n	0.5000	0.5000	0.2769(6)	7.1(6)
V3	2m	0.0000	0.0000	0.1990(5)	7.1(6)
V4	2n	0.000	0.5000	0.1388(5)	7.1(6)
O1	4o	0.452(1)	0.255(1)	0.295(2)	5.1(7)
O2	4o	0.367(3)	0.205(4)	0.336(3)	5.1(7)
O3	4o	0.147(2)	0.168(4)	-0.087(3)	5.1(7)
O4	4o	0.072(1)	0.318(1)	-0.043(3)	5.1(7)
O5	4o	0.5692(3)	0.753(1)	0.299(1)	5.1(7)
O6	4o	0.682(2)	0.804(3)	0.294(3)	5.1(7)
O7	4o	0.910(3)	0.845(2)	0.700(3)	5.1(7)
O8	4o	0.801(4)	0.822(3)	0.696(3)	5.1(7)
O9	4o	0.4657(8)	0.244(1)	0.2114(6)	5.1(7)
O10	4o	-0.004(7)	0.242(5)	0.161(3)	5.1(7)
O11	2m	-0.0799(8)	0.0000	0.213(1)	5.1(7)
O12	2n	0.065(5)	0.5000	0.113(6)	5.1(7)
N1	2m	0.2876(3)	0.0000	0.8607(3)	4.2(8)
C1	2m	0.3535(3)	0.0000	0.9004(4)	2.6(7)
C2	2m	0.233(1)	0.0000	0.872(2)	2.6(7)
C3	2m	0.280(1)	0.0000	0.7836(4)	2.6(7)
O13	2m	0.393(1)	0.0000	0.9944(4)	5.1(7)
C4	4o	0.3191	0.2232	0.2007	2.6(7)
C5	4o	0.3327	0.2366	0.1444	2.6(7)
C6	4o	0.2483	0.2339	0.1831	2.6(7)
C7	4o	0.2729	0.2364	0.0676	2.6(7)
C8	4o	0.1908	0.2547	0.1079	2.6(7)
C9	4o	0.2021	0.2539	0.0501	2.6(7)
C10	4o	0.3785	0.2452	0.2776	2.6(7)
C11	4o	0.1404	0.2466	-0.0259	2.6(7)
C12	4o	0.6970	0.7478	0.4169	2.6(7)
C13	4o	0.6653	0.7242	0.4587	2.6(7)
C14	4o	0.7725	0.7550	0.4546	2.6(7)
C15	4o	0.7116	0.7080	0.5384	2.6(7)
C16	4o	0.8173	0.7522	0.5330	2.6(7)
C17	4o	0.7864	0.7460	0.5748	2.6(7)
C18	4o	0.6506	0.7729	0.3365	2.6(7)
C19	4o	0.8316	0.7665	0.6548	2.6(7)

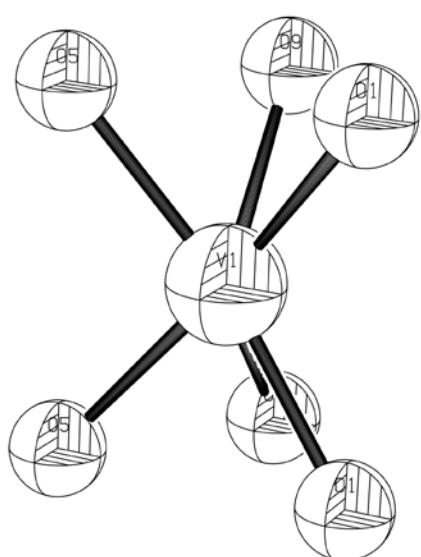


Fig. S1 Trigonal-prismatic geometry of $[V_4O_4(OH)_2(O_2CC_6H_4CO_2)_4] \cdot DMF$ in detail.

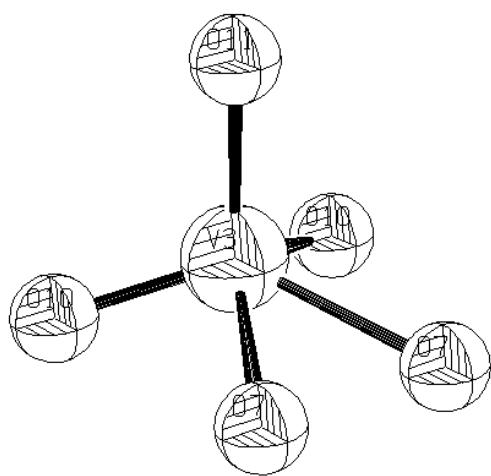


Fig. S2 Square-pyramidal geometry of $[V_4O_4(OH)_2(O_2CC_6H_4CO_2)_4] \cdot DMF$ in detail.