Supporting Information

Cobalt-Containing Pesudosandwich-Type Polyoxometalate Based on Lacunary Lindqvist Polyoxovanadate

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Table S1. Bond Valence Sum Calculations for **1**

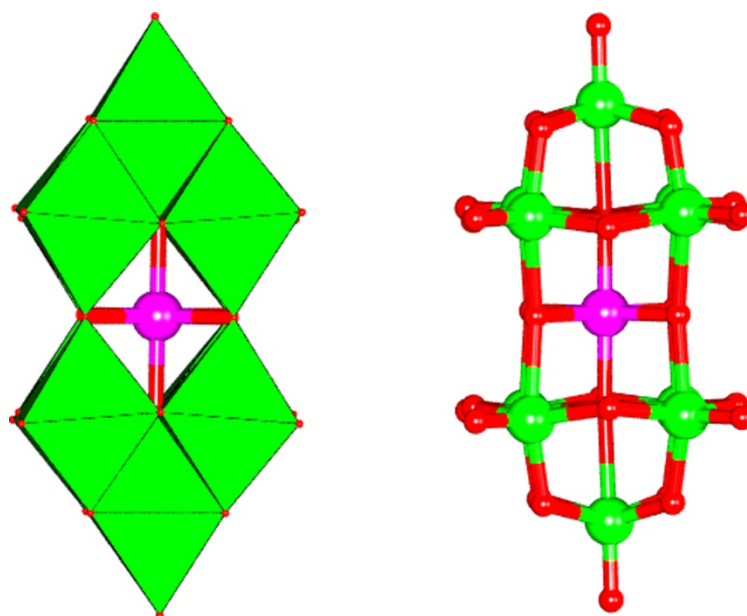| atom	V(1)	V(2)	V(3)
	1.70307	1.763971	1.778332
	1.108162	0.845719	0.975969
Based on $r_o(V^{5+})$	0.792603	0.845719	0.866543
	0.664907	0.69429	0.624833
	0.436167	0.69429	0.519934
	0.307777	0.249952	0.283807
	=5.012687	=5.093943	=5.049419
	Co(1)	Co(2)	Co(3)
	0.569975	0.545853	0.370874
Based on $r_o(Co^{3+})$	0.569975	0.541445	0.370874
	0.51019	0.495245	0.357103
	0.51019	0.495245	0.357103
	0.51019	0.588764	0.291582
	0.51019	0.588764	0.291582
	=3.180709	=3.255316	=2.039121

Fig. S1. Veiw of $[CoV_{10}O_{32}]$ anion in **1**.
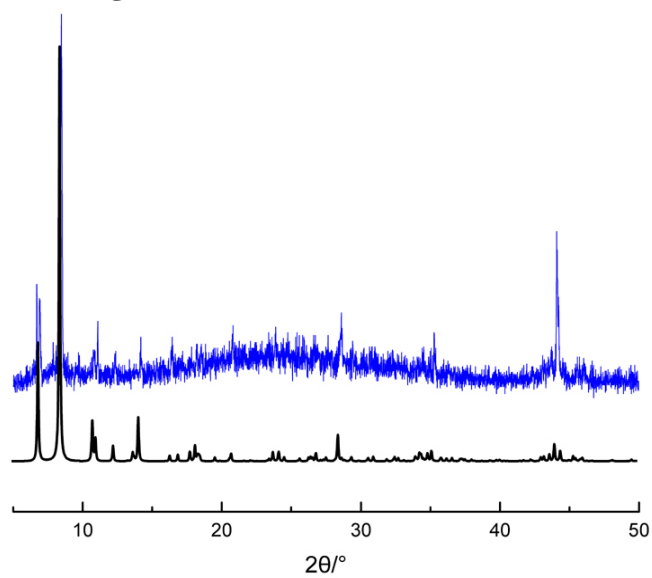

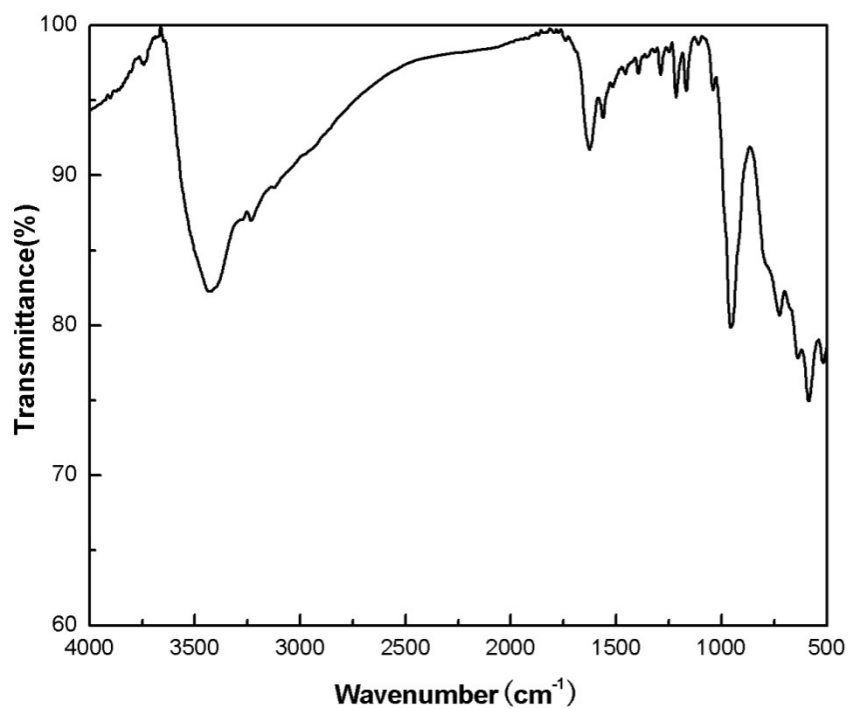**Fig. S2.** PXRD patterns of compound **1**: blue as-synthesized; black simulated.
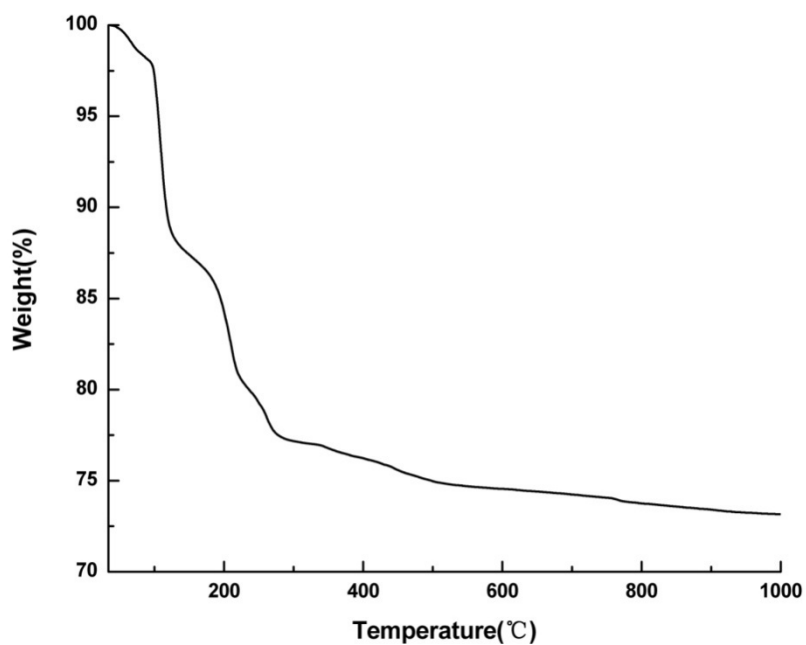
Fig. S3. IR spectrum of compound **1.**

Fig. S4. The TG curve of compound **1**.