

Novel 'Anti-Prussian Blue' Structure Based on Zn^{2+} Nodes and $[\text{Re}_3\text{Mo}_3\text{S}_8(\text{CN})_6]^{6-}$ Heterometallic Cluster Spacers and its Rearrangement to Prussian Blue

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Supporting Information

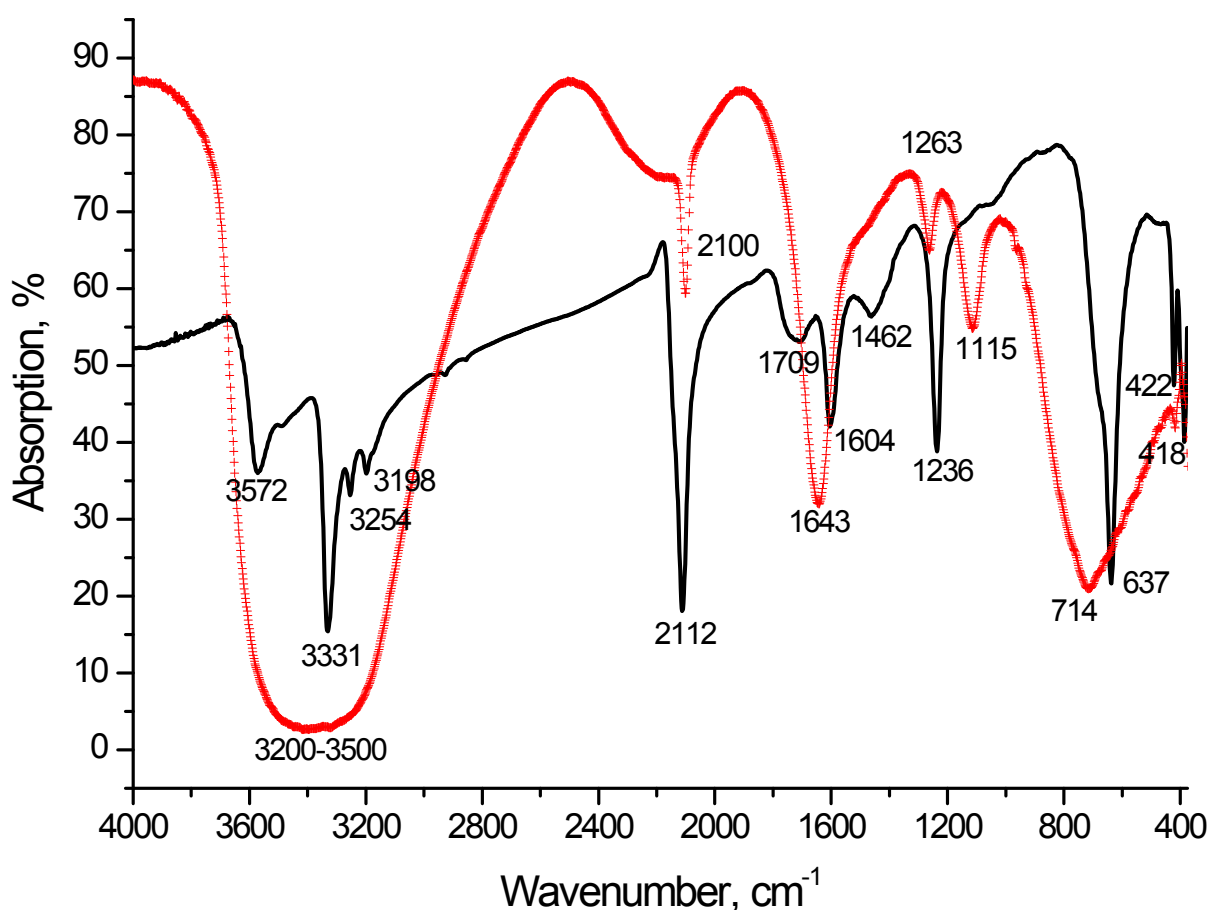


Fig. S1. IR spectra of compounds **1** (red dotted line) and **2** (black solid line). To prevent decay, spectrum of compound **1** was registered in an ammonia mother solution.

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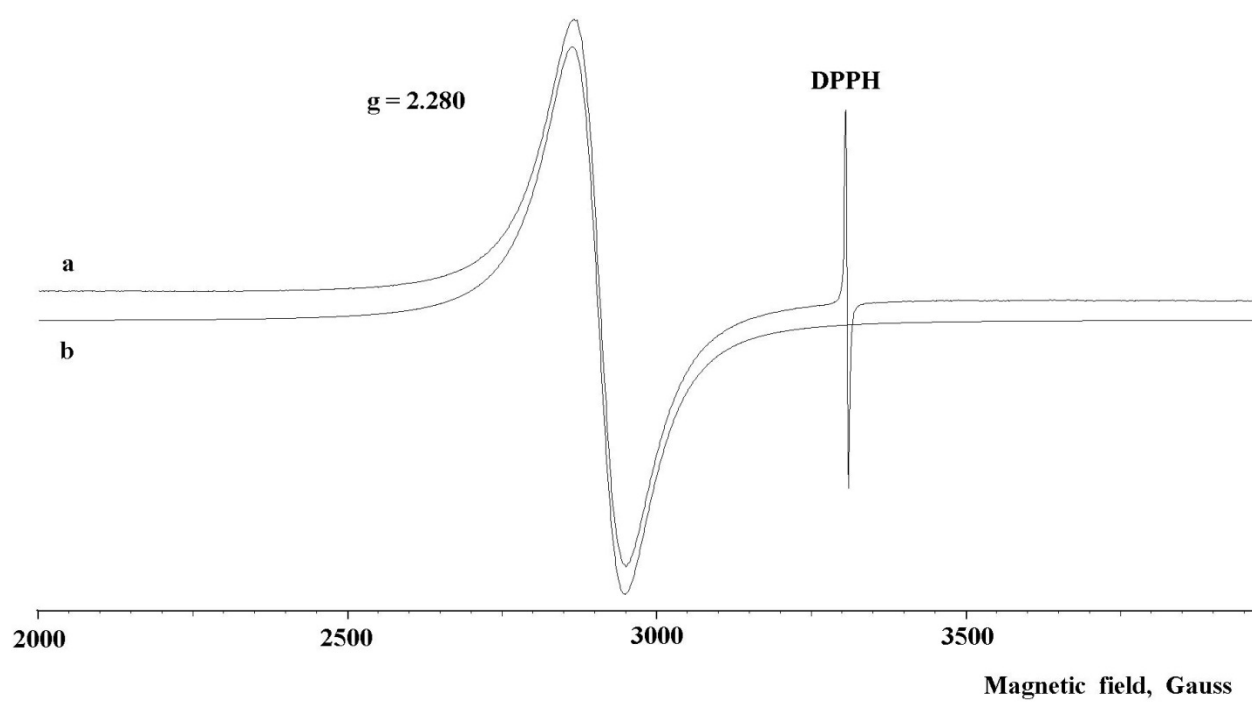


Fig. S2. Observed (a) and calculated (b) EPR spectra of compound 2.

Table S1. Bond distances (Å) in **1** and **2** compared to $\text{CaK}_4[\text{Re}_3\text{Mo}_3\text{S}_8(\text{CN})_6]\cdot 8\text{H}_2\text{O}^*$.

Bond	d, Å	Bond	d, Å	Bond	d, Å
1		2		*	
M1-M1	2.6248(10)	M1-M1	2.6374(17)	M1-M1	2.6273(8)
M1-M2	2.6230(8)				
M1-S1	2.439(2)	M1-S1	2.426(4)	M1-S1	2.439(2)
M2-S1	2.427(3)				
M1-C1	2.145(14)	M1-C1	2.23(3)	M1-C1	2.173(13)
M2-C2	2.17(3)				
Zn1-N2	2.35(3)	Zn1-N1	2.194(19)		
Zn2-N3	1.994(10)	Zn2-N2	2.16(3)		
Zn2-N4	2.04(2)				