

Supplementary Information

Figure S1. Magnetic susceptibility measurements for $[\text{Co}(\text{L2})_2](\text{BF}_4)_2 \cdot \text{H}_2\text{O}$.

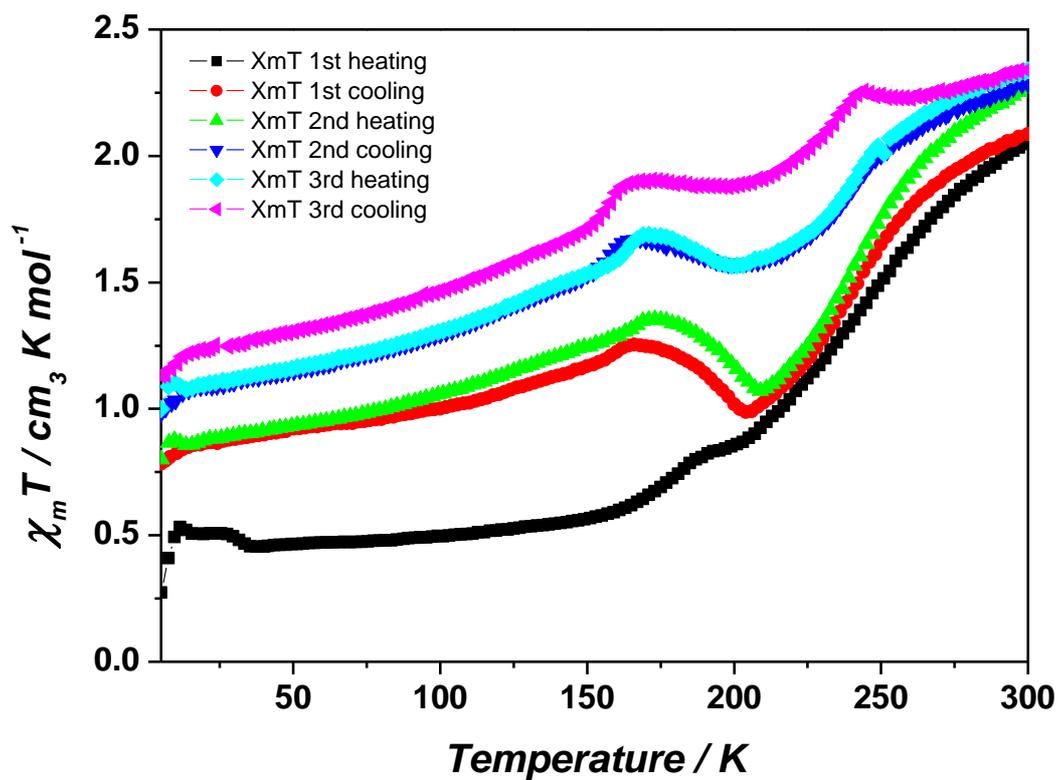


Figure S2. A partial view, down b, of the lattice of $[\text{Cu}(\text{L3})_2](\text{ClO}_4)_2 \cdot \text{CH}_3\text{CN}$.

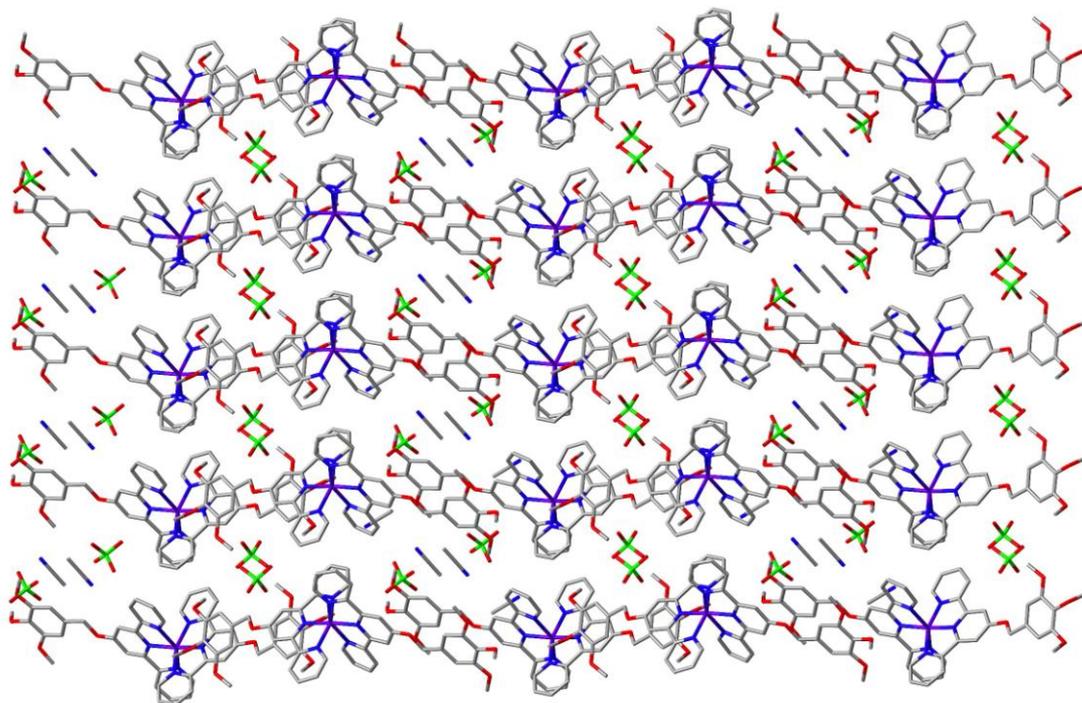
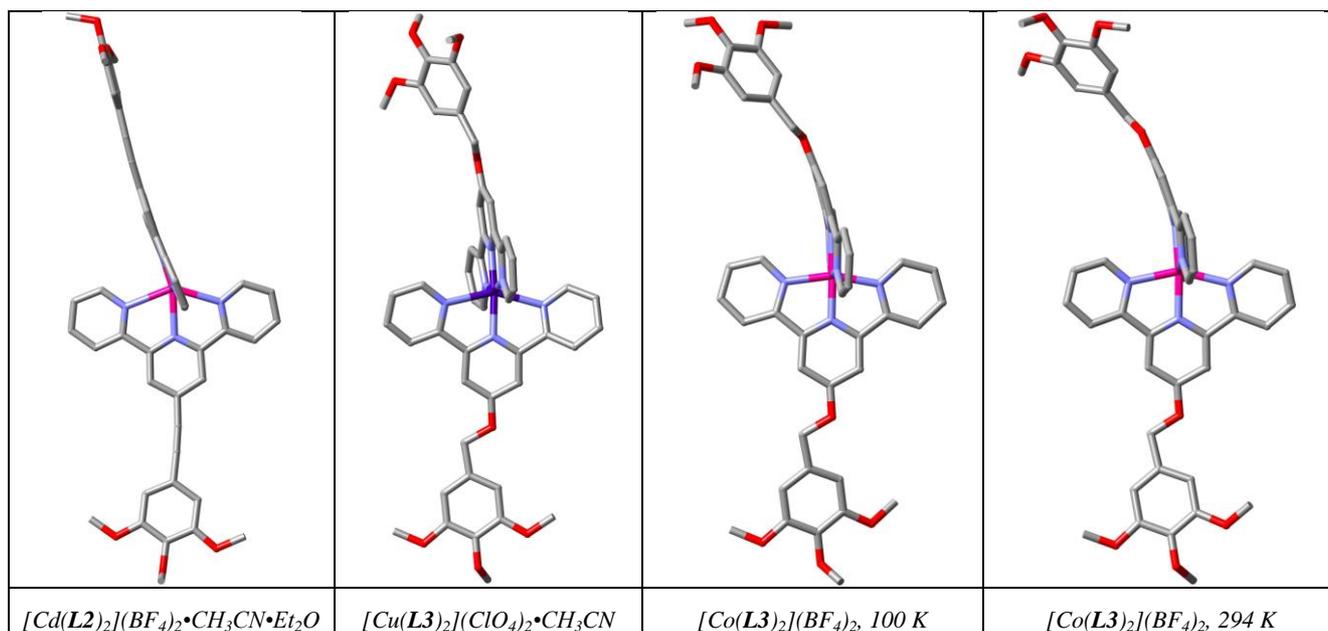
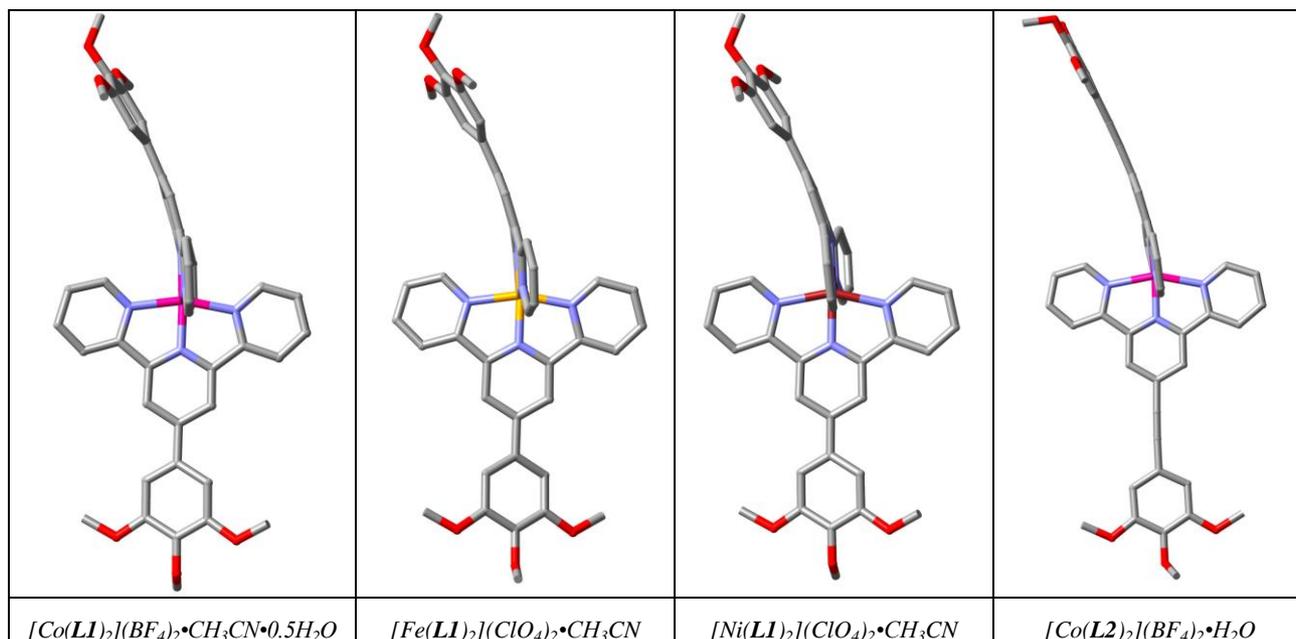


Figure S3. Views, perpendicular to the mean plane of the more nearly planar ligand, of the various cations studied in the present work.



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