

Electronic Supplementary Information (ESI) for

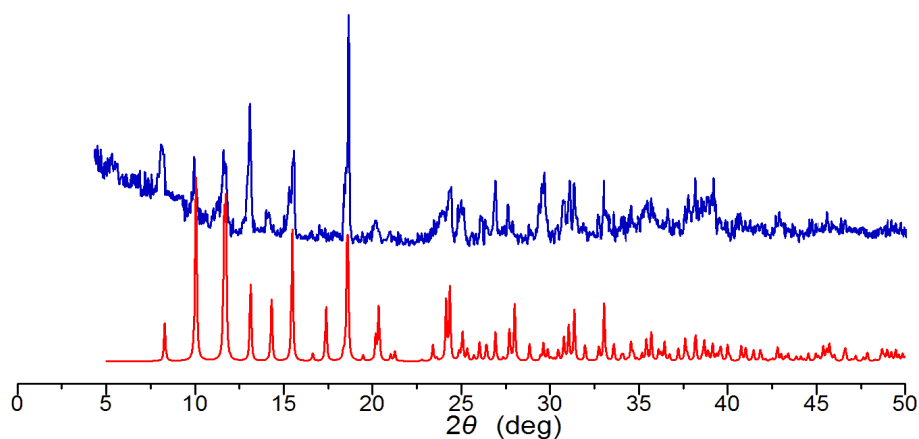
Syntheses, Structures, and Luminescence Properties of Anion-Controlled Heterometal Modular Coordination Polymers Based on Metalloligand

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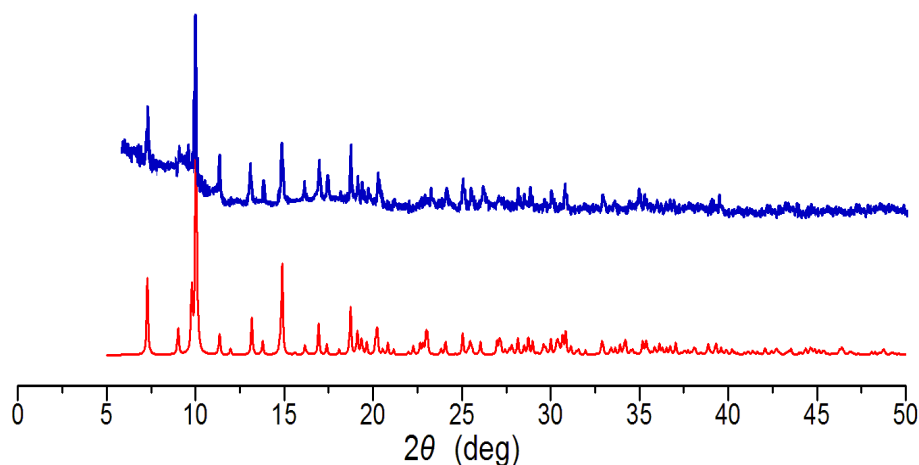
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Supramolecular Chemistry, Guizhou University, Guiyang 550025, China.

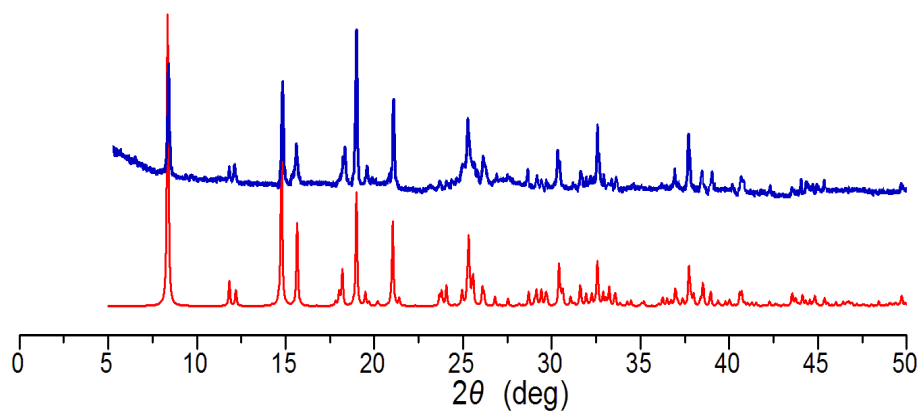
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(a)

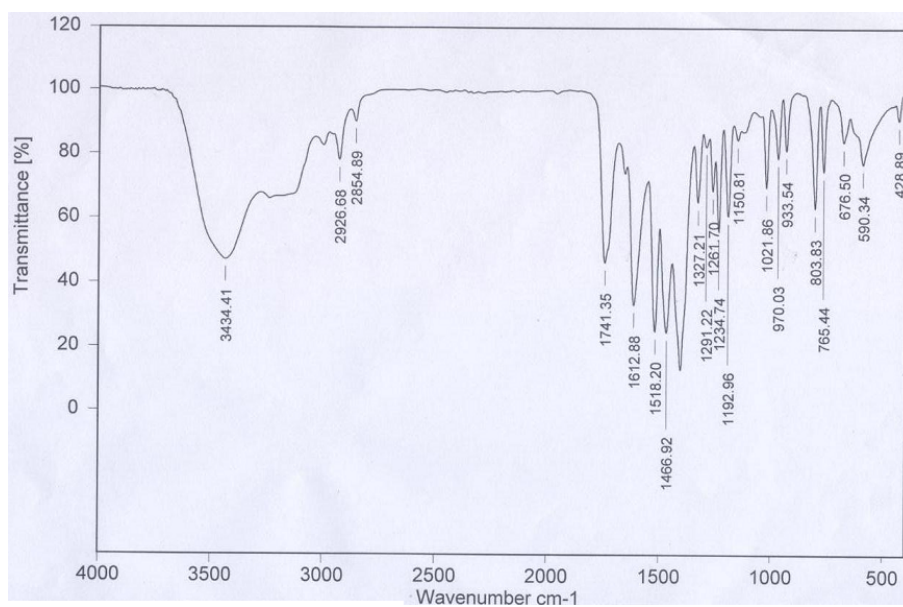


(b)

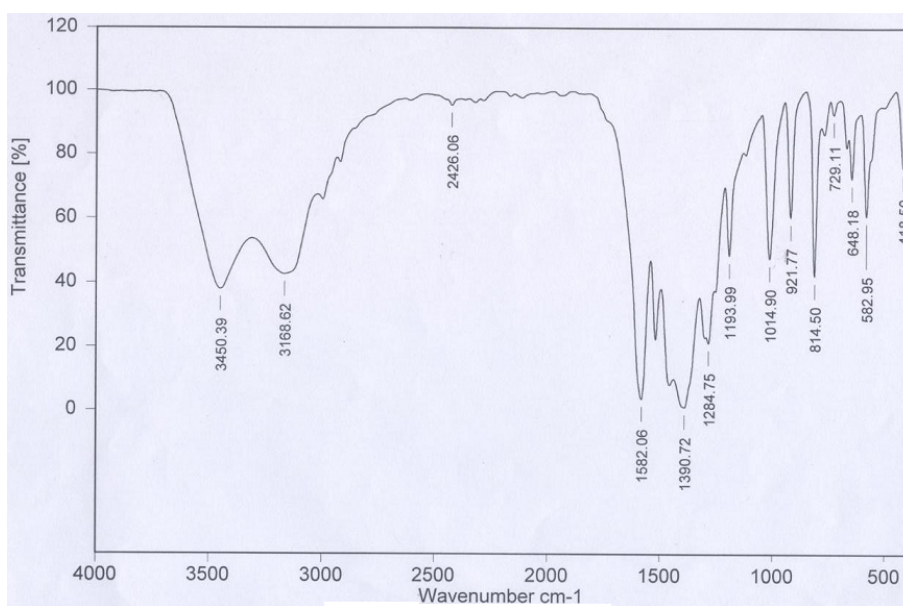


(c)

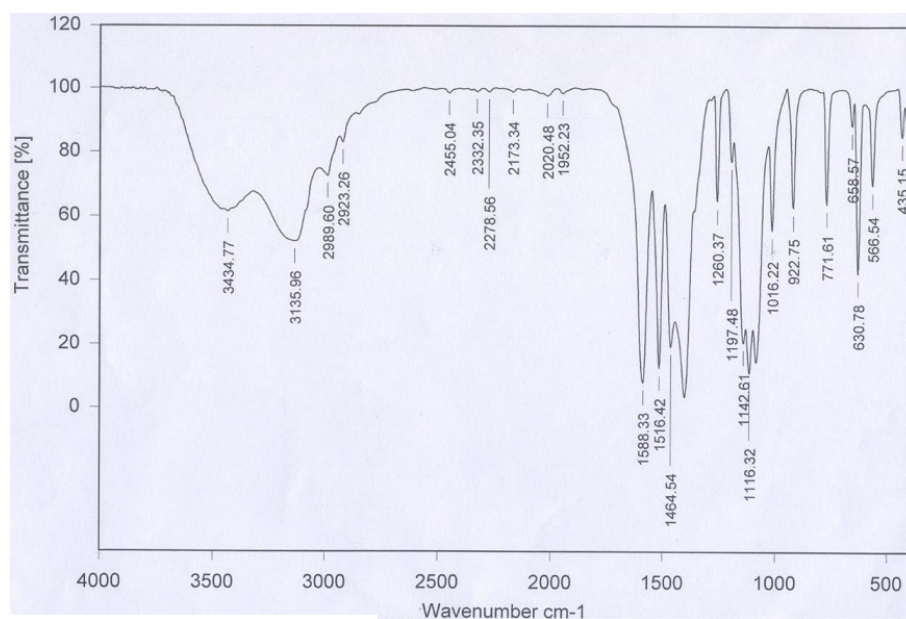
Figure S1. PXRD patterns of (a) **2**, (b) **3** and (c) **4**. Red: calculated from the X-ray single-crystal data; blue: observed for the as-synthesized solids.



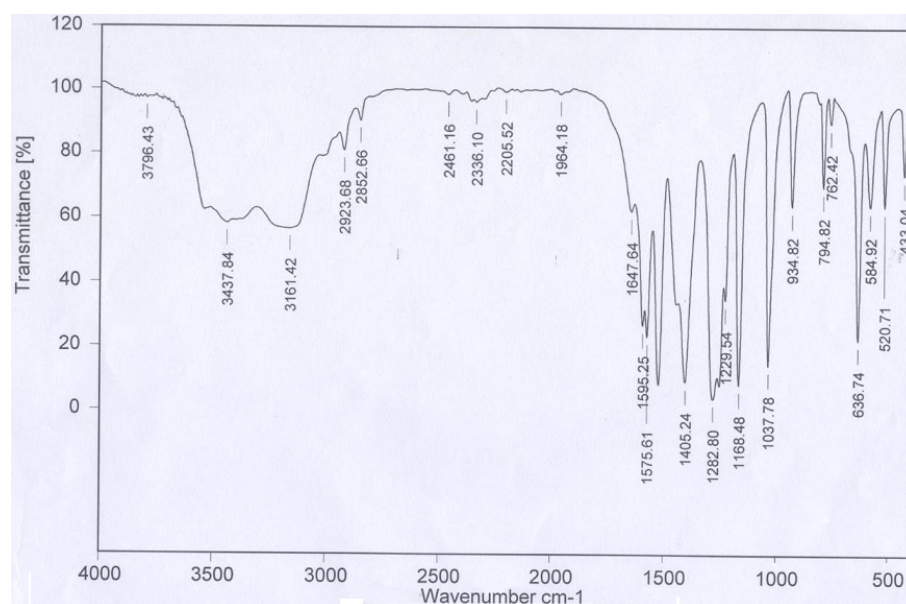
(a)



(b)



(c)



(d)

Figure S2. The IR spectra of (a) **1**, (b) **2**, (c) **3** and (d) **4**.

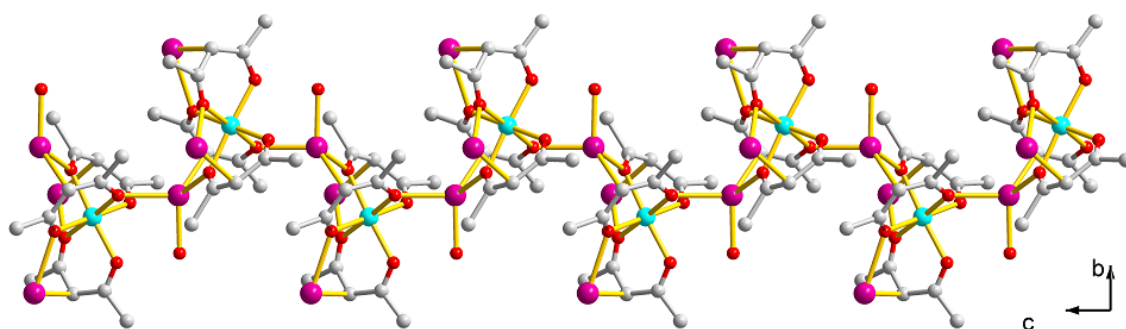


Figure S3. The 1D zigzag polymeric $[\text{NiAg}_3(\text{acac})_3]_n^{2n+}$ chain of compound **2** along the crystallographic c direction.

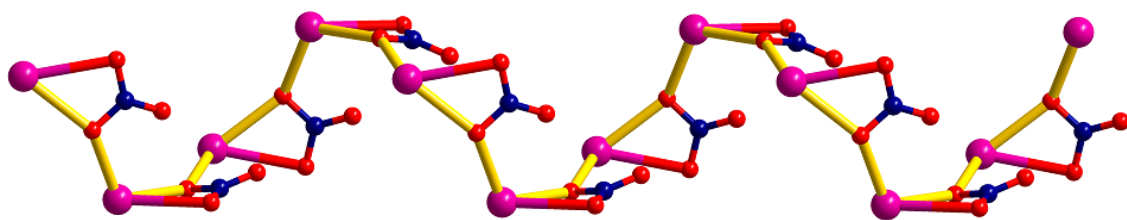


Figure S4. View of the 1D helix chains of compound **2**.

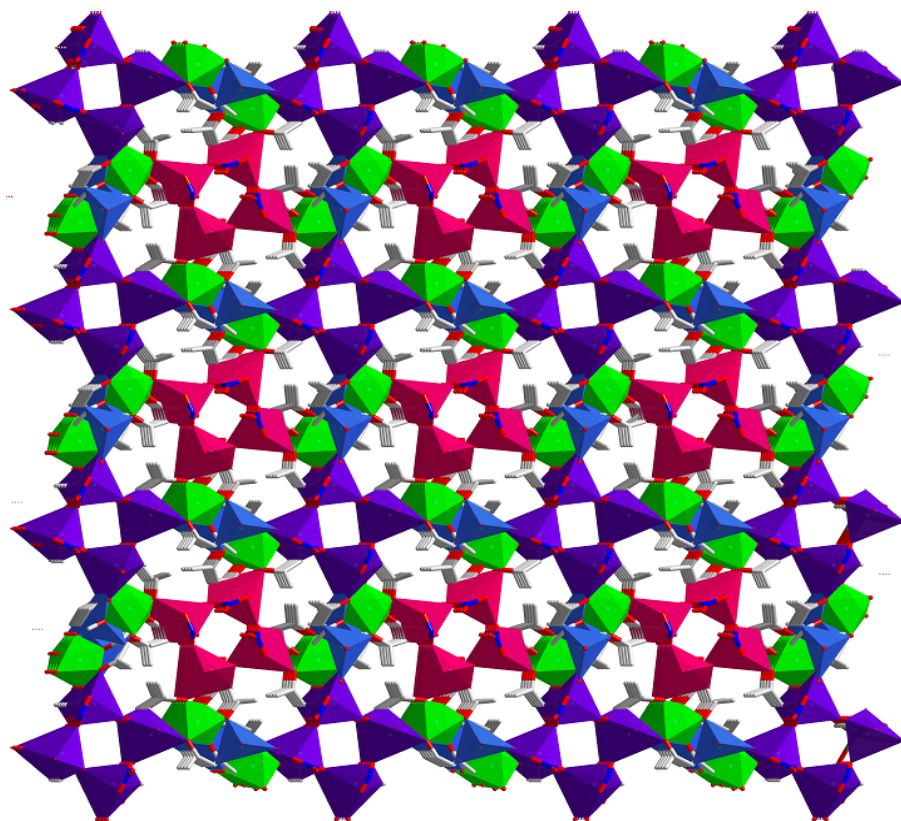


Figure S5. View of the 3D frameworks of compound **2**.

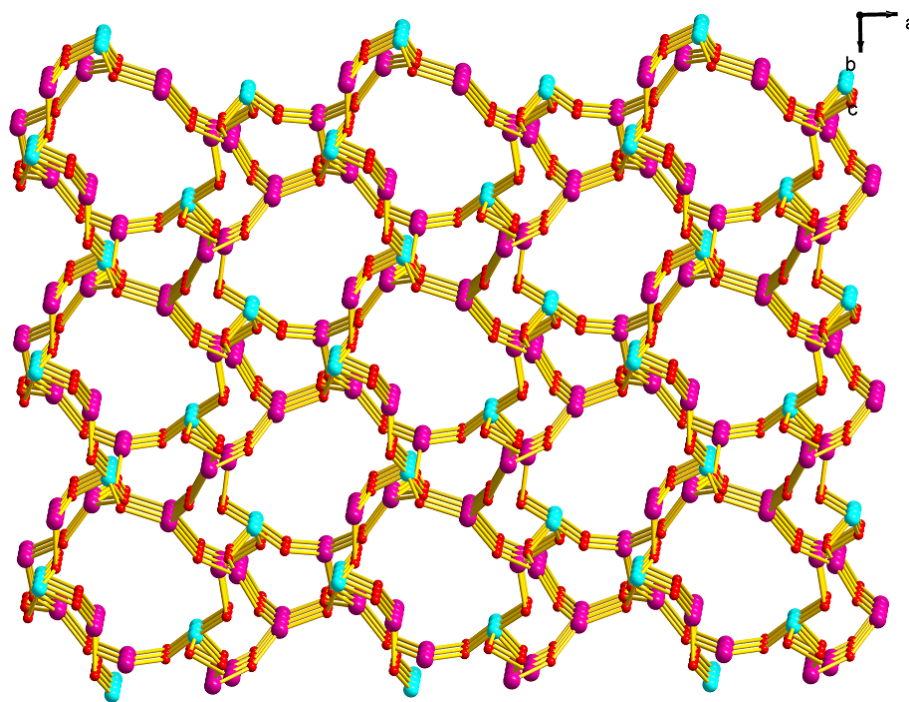


Figure S6. View of the 3D inorganic $[\text{NiAg}_3\text{O}_5]_n^{+5n}$ frameworks of compound **2** along *ab* plane.

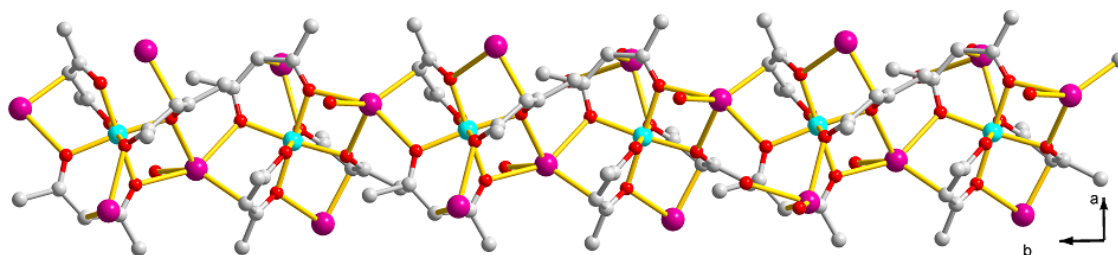


Figure S7. The 1D zigzag polymeric $[\text{NiAg}_3(\text{acac})_3]_n^{2n+}$ chain of compound **3** along the crystallographic *c* direction.

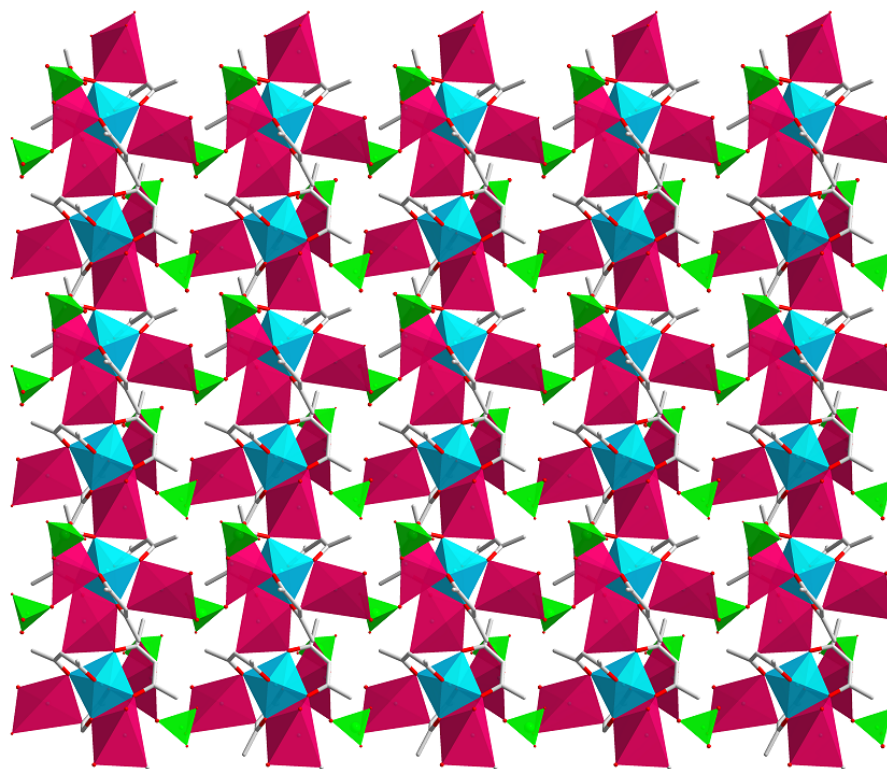


Figure S8. View of the 2D frameworks of **3**.

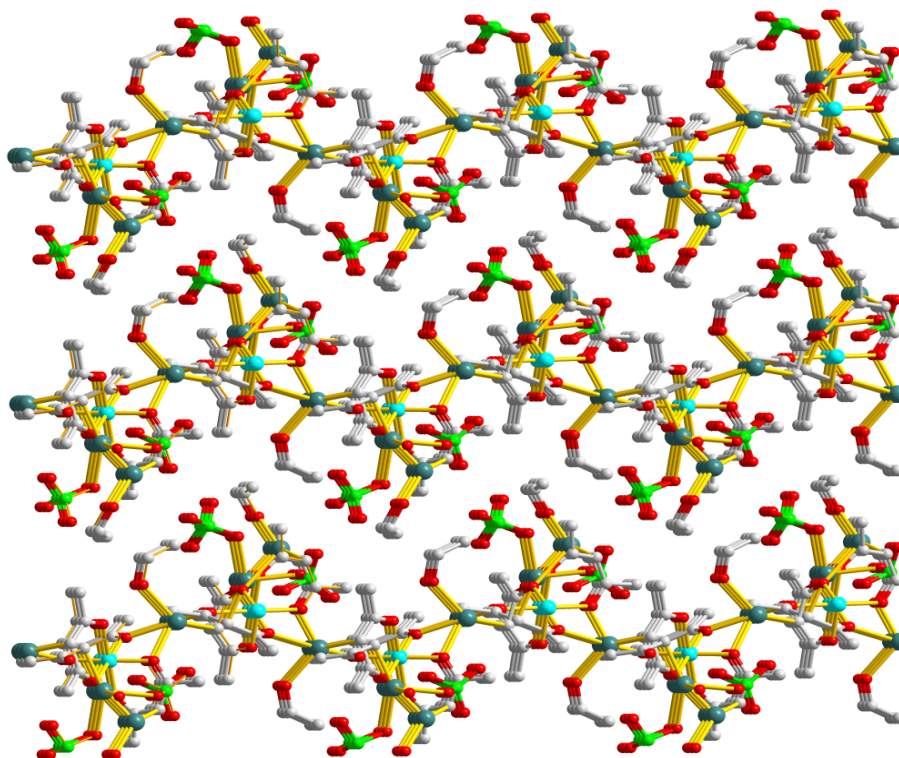


Figure S9. View of the 3D packing structure of **3**.

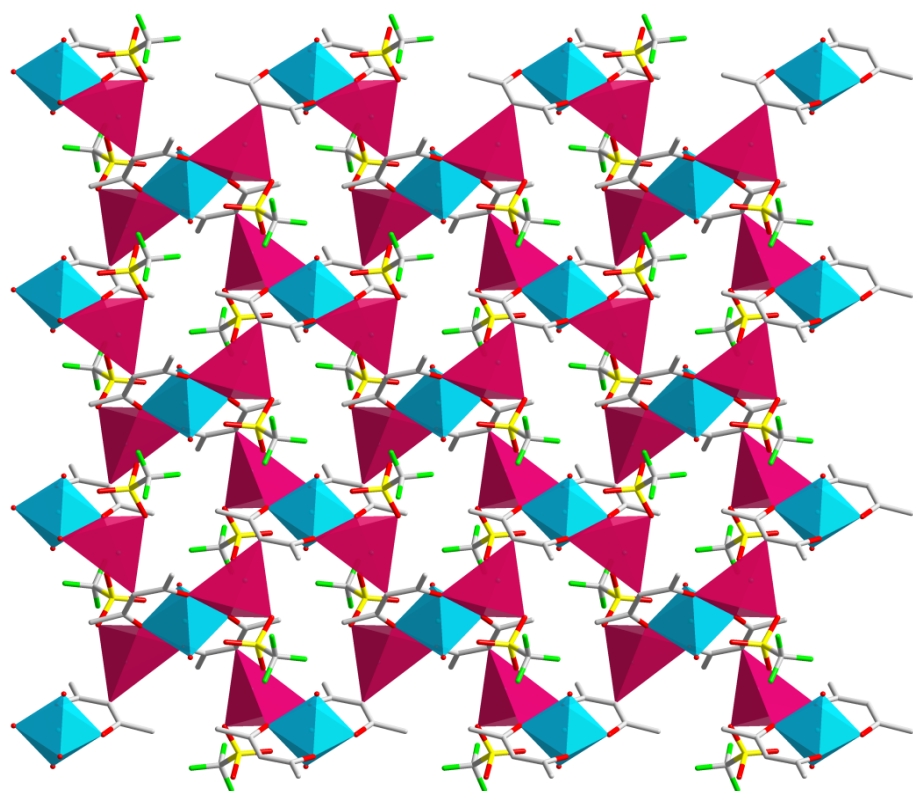


Figure S10. View of the 2D layer of **4**.