

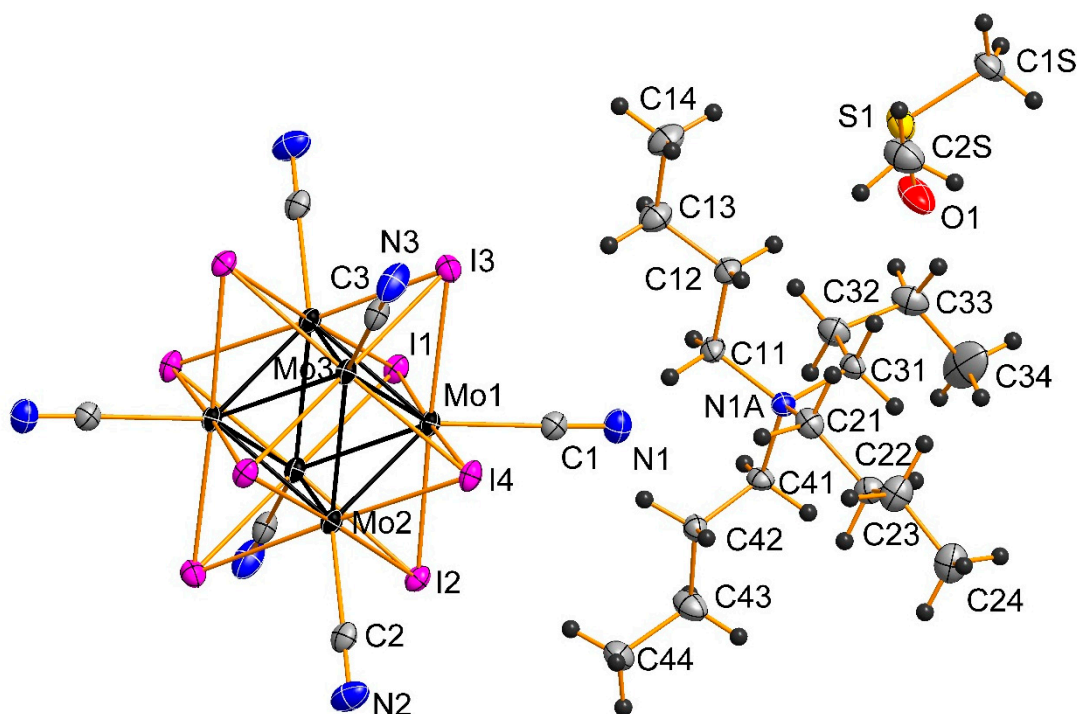
## Cyanide complexes based on $\{\text{Mo}_6\text{I}_8\}^{4+}$ and $\{\text{W}_6\text{I}_8\}^{4+}$ cluster cores

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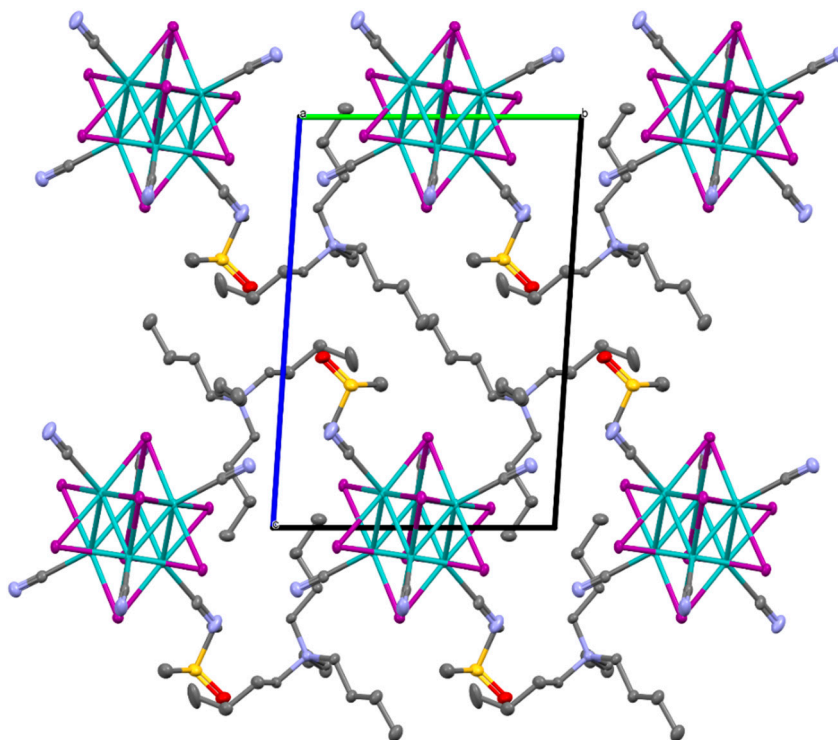
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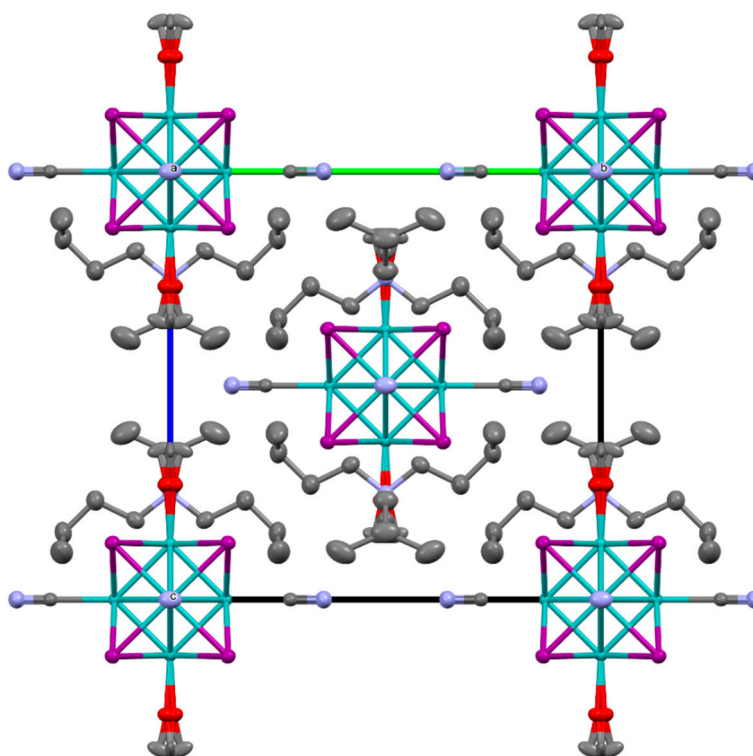
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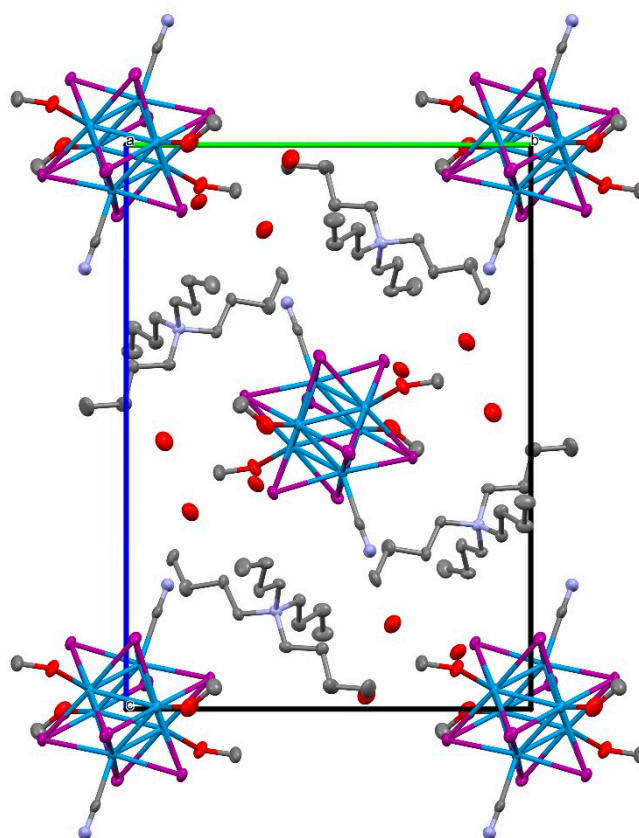
**Figure S1.** Fragment of structure of the compound **3** with numbered atoms (except hydrogens) of asymmetric unit. Atoms are shown as thermal ellipsoids of 50% probability.



**Figure S2.** Packing of the cluster anions,  $\text{Bu}_4\text{N}^+$  cations and DMSO molecules in the structure of compound **3**, view along  $a$  direction. Atoms are shown as thermal ellipsoids of 50% probability. Hydrogen atoms are not shown.



**Figure S3.** Packing diagram for the compound **4**, view along  $a$  direction. Atoms are shown as thermal ellipsoids of 50% probability. Hydrogen atoms are not shown.



**Figure S4.** Packing diagram for the compound **5**, view along *a* direction. Atoms are shown as thermal ellipsoids of 50% probability. Hydrogen atoms are not shown.