

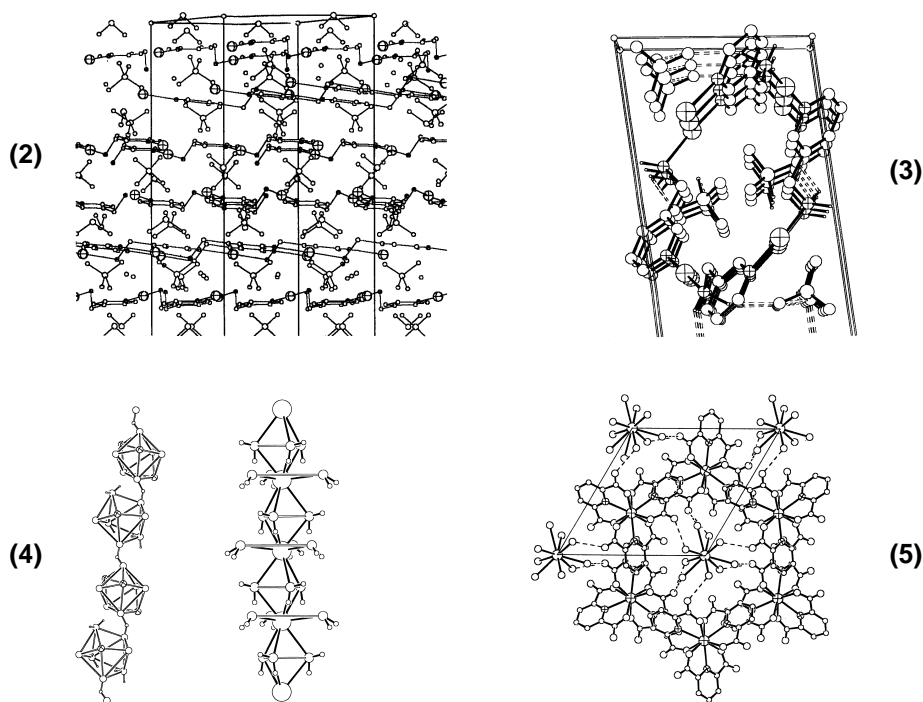
Polymeric coordination compounds

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Metal coordination polymers with one- and two-dimensional structures are of current interest due to their possible relevance to material science¹. In continuation of our previous studies^{2,3}, several new polymeric compounds are reported here.

Among the complexes of silver with aminomethyl pyridine (amp) $\text{Ag}(2\text{-amp})\text{ClO}_4$ (**1**) forms 1-D chains, whereas in $\text{Ag}(4\text{-amp})\text{ClO}_4$ (**2**) there is an hexagonal arrangement of polymer chains. On the other hand, $\text{Ag}(3\text{-amp})\text{ClO}_4$ (**3**) is a tunnel-forming polymer. $\text{Ce}(\text{dipic})_3\text{Sr}(\text{dipicH}_2)(\text{OH}_2)_3 \cdot 5\text{H}_2\text{O}$ (**4**) (dipicH₂ – dipicolinic acid) exhibits 1-D polymeric chain structure, built up of alternating nine coordinate Ce and eight coordinate Sr polyhedra. The analogous Ce–Ba compound (**5**) exhibits a polymeric chain built up of nine coordinate Ba units only, arranged in a hexagonal lattice.



References

1. Chen C T and Suslick K S 1993 *Coord. Chem. Rev.* **128** 293
2. Swarnabala G and Rajasekharan M V 1997 *Polyhedron* **16** 921
3. Swarnabala G and Rajasekharan M V 1998 *Inorg. Chem.* **37** 1483