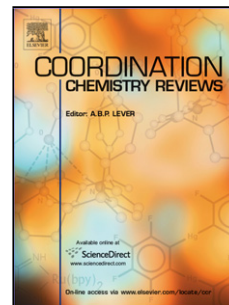


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Highlights

Coordination number equal to 6 in all investigated structures of fluoride and oxofluoride complexes of Ti(IV).

- Octahedral groups TiF_6 , $\text{TiF}_5(\text{H}_2\text{O})$, TiF_5O , TiF_4O_2 , and $\text{Ti}(\text{F},\text{OH})_6$ form the basic structural units.
- Monomeric, dimeric, oligomeric, and polymeric structural motives are realized through various bridging modes.

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