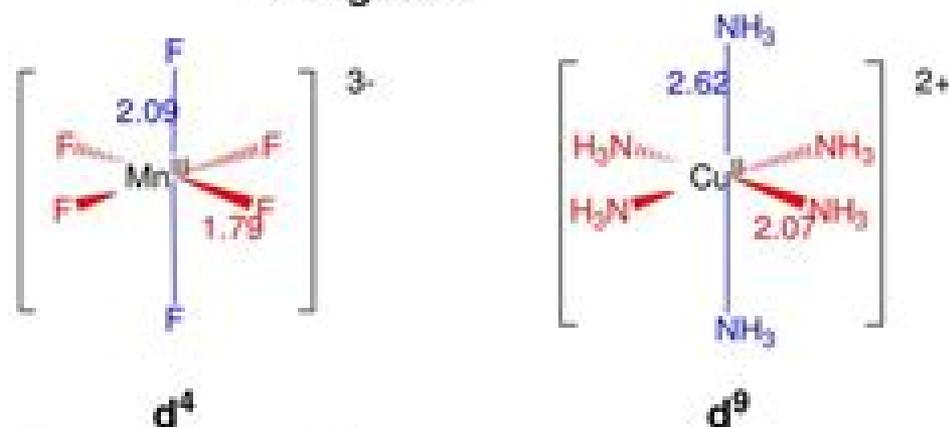


2) Static and dynamic Jahn-Teller effect

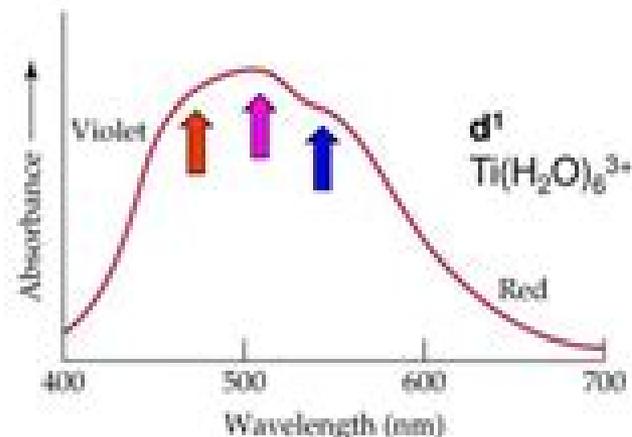
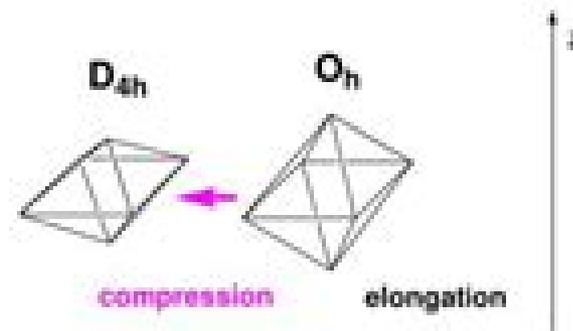
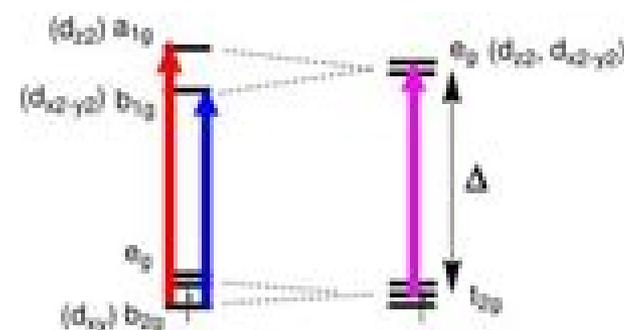
- The Jahn-Teller effect is more pronounced when the former e_g level is not completely filled ($\delta_1 > \delta_2$), that is for configurations d^4 (high spin), d^7 (low spin) and d^9 . In these cases a **static** Jahn-Teller effect can be observed and the species of D_{4h} symmetry can exist *in a solid phase*.

elongation:



- Much weaker stabilization corresponds to the case of the asymmetrically filled former t_{2g} level such as in d^1 species.
- In such cases the tetragonal distortion is reflected mainly in electron absorption. We observe appearance of new bands like in the case of $Ti(H_2O)_6^{3+}$ (two new bands appears as shoulders).

Tetragonal distortion of d^1 species



The Dynamical Jahn Teller Effect In Localized Systems

Isaac B. Bersuker, Victor Z. Polinger



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