

Transition metal oxides have crystal structures which are variants on the ABO_3 perovskite structure schematically depicted in Fig. 1. In the ideal perovskite structure the electronically interesting transition metal occupies the B-site, and is surrounded by (and strongly bonded to) 6 oxygen ions, which form an octahedron centered on the B-sites.

Lecture notes on “Strongly Correlated” Transition Metal Oxides

In most transition metal oxides, the oxygen anions in the bulk form close-packed layers and the metal cations occupy holes among the anions as described in Chapter 2. In this picture, since the bulk oxide ions are as densely packed as possible, the oxide ion ligands around a metal cation are thought to have saturated the coordination sphere of the bulk cation, that is, the bulk cation is coordinatively saturated.

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