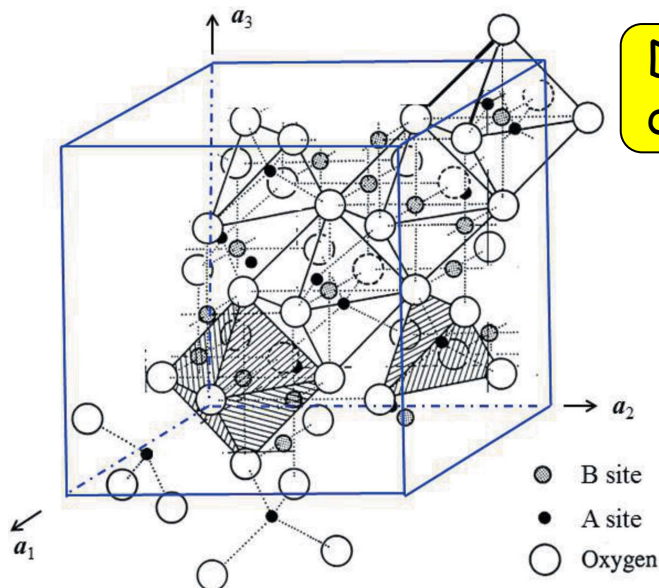
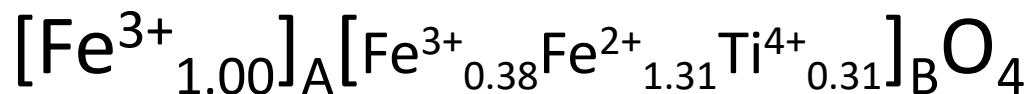


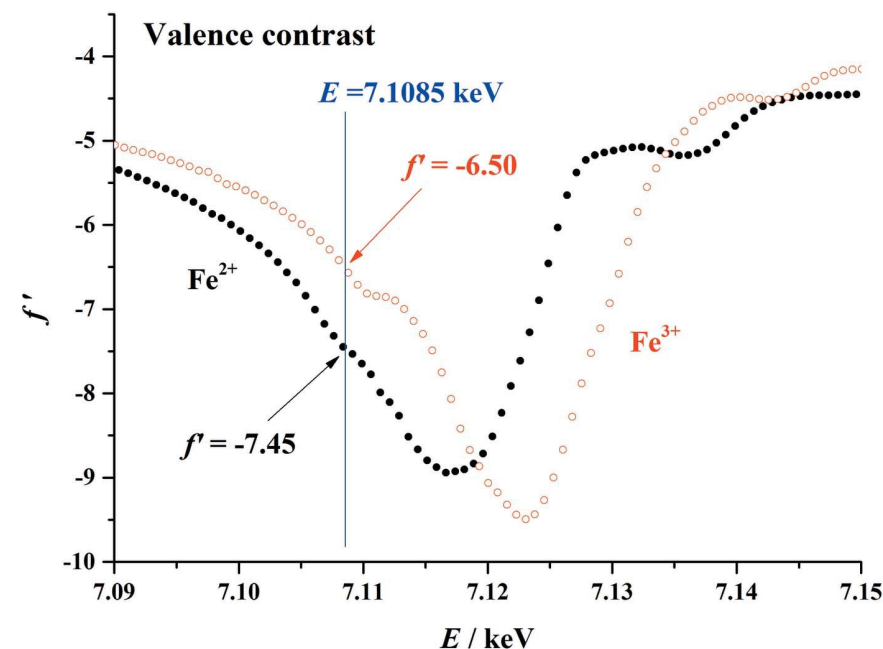
Distribution of Fe^{2+} , Fe^{3+} and Ti^{4+} in titano-magnetite determined by **valence-difference contrast**



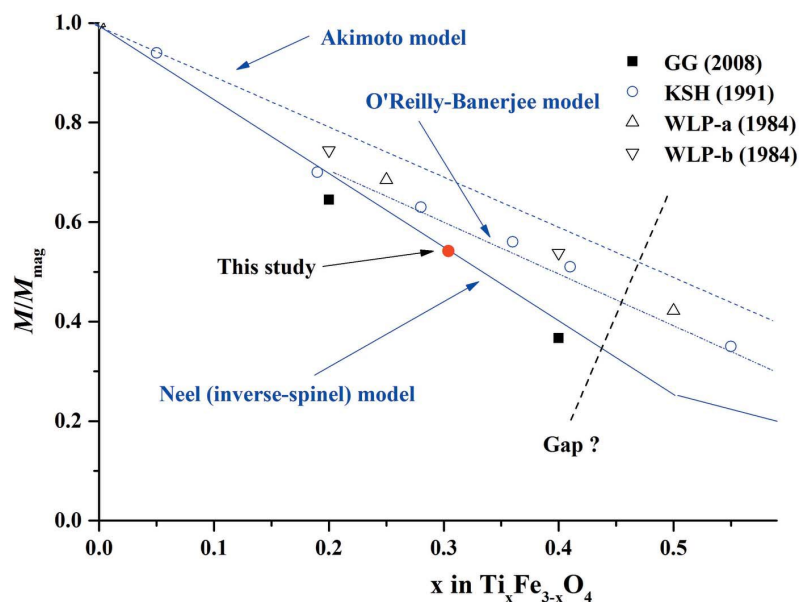
Structure of ferrite spinel



Titano-magnetite has the complete inverse-spinel structure continuously from the end-member of magnetite. The physical properties may be described by the Neel's model.



Anomalous X-ray scattering factors



Magnetization ratio for titano-magnetite