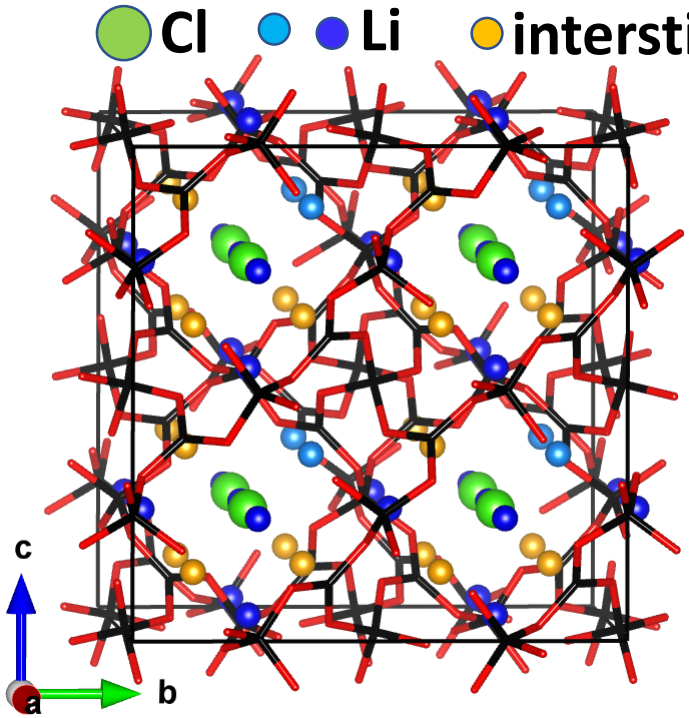
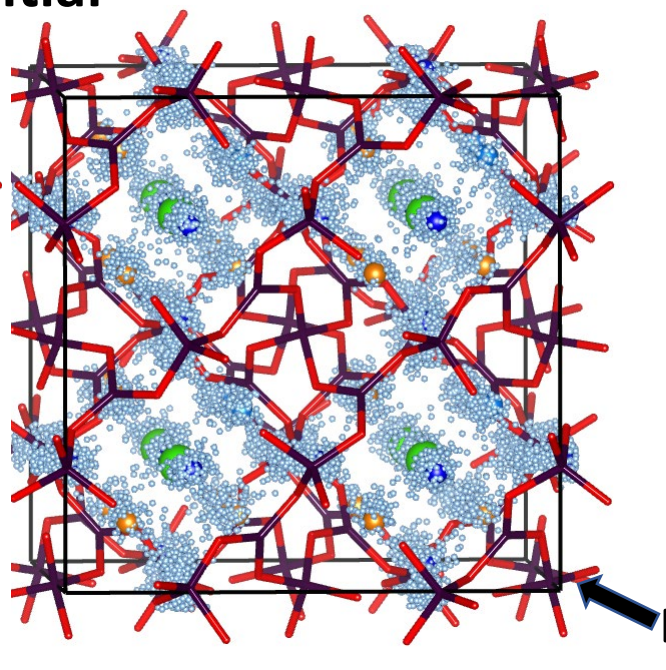
Materials simulation research – example study of ideal solid electrolytes for all-solid-state batteries from Ph. D. work of Dr. Yan Li



Li boracite in its ideal crystal form



Superposed Li ion positions from MD simulation at 1200K

Research focus areas –

- Using existent software methods to study properties of known and predicted materials, particularly those associated with all-solid-state batteries
- Developing software to extend capabilities of materials simulations – http://pwpaw.wfu.edu

Opportunities for student participation

- All students interested in materials simulations and materials software development are encouraged to contact natalie@wfu.edu. It is possible to participate in this research as a beginner or to build from previous experience.

Links: Research links for N. A. W. Holzwarth
Webpage for N. A. W. Holzwarth
WFU Physics webpage