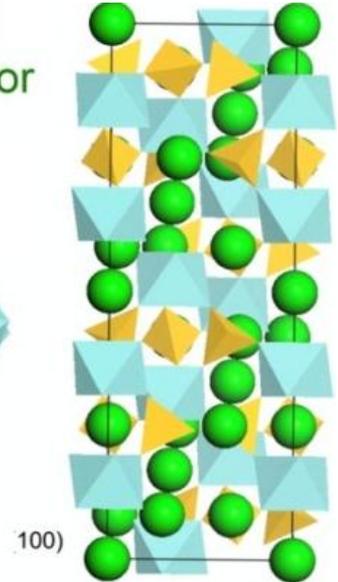
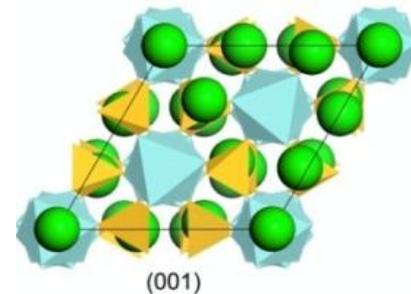
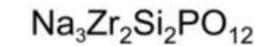


Sodium-Based Batteries

Motivation: Why Sodium-Based Systems?

- High energy content & very low cost of metallic anodes
 - projected costs < \$100/kWh
- U.S. has large reserves of sodium commodities
- Simple salts nontoxic & environmentally benign
- High conductivity, solid-state Na-ion conductor is available *now* (*i.e.* NaSICON)
- Can be coupled with a variety of cathodes to develop a family of batteries able to fill the multiple application needs
 - sodium-bromine, sodium-iodine, sodium-air, sodium-ion, low temperature NAS, etc.

NaSICON - sodium super ionic conductor (& separator)



Multi-institutional Multi-disciplinary Team:

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Solid Metallic Anodes

