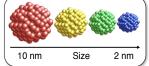
Computational Nanoscience for Energy

Fall 2009: 3.29: TR 9:30-11: Prof. Jeffrey Grossman: jcg@mit.edu 12 Units (3-0-9): Graduate Course: Seniors with Permission

Materials for energy conversion and storage can be greatly improved by taking advantage of unique effects that occur at the nanoscale. This course will provide the fundamentals of computational problemsolving techniques that are used to elucidate the atomic-scale behavior of energy conversion and storage nano-materials.

Want to help to solve THE ENERGY CRISIS?

Did you know that it can be done with... nanoscience

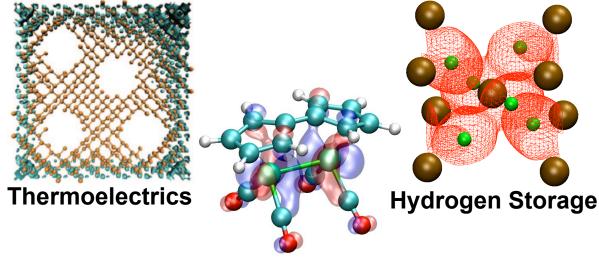




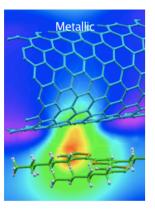
In this class you will learn how to use simulations to:

- Understand Fundamental Mechanisms
- of Nanomaterials **Properties**
- Predict a Wide RangeDesign Improved Energy Conversion & Storage **Materials**

Detailed materials examples will be given for:







Solar Cells