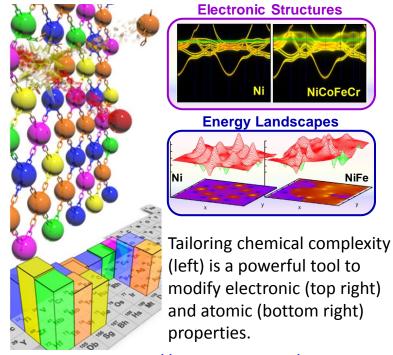
Energy Dissipation to Defect Evolution (EDDE)

Yanwen Zhang (Oak Ridge National Laboratory); Class: 2014-2020

MISSION: To understand how extreme chemical complexity can be exploited to control energy dissipation and defect evolution under equilibrium and non-equilibrium conditions, and to guide the development of radiation-tolerant alloys with unique magnetic and thermal properties.



http://edde.ornl.gov/

RESEARCH PLAN

Tailoring chemical complexity dramatically modifies material properties at the level of electrons and atoms. We will understand and modify chemical complexity to ultimately enhance radiation tolerance by reducing the rate of Energy Dissipation (Thrust 1) and controlling Defect Evolution (Thrust 2).













