

Microscopic property of Cu and Li in titanate and acceptor-O-vacancy dipole defects



报告人

Prof. Chul Hong Park

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嘉定园区F6第二会议室

Chul Hong Park is a professor in Busan National University. His research area includes superconductor, semiconductor & device, ferroelectrics-related, magnetic materials, solar cell (perovskite), amorphous oxides, defects, optical property, dynamics and spin structure.

Abstract: Through DFT electronic structure calculations, we examine the microscopic properties of defect dipole acceptor-doped titanate such as PbTiO_3 and BaTiO_3 using Li and Cu acceptors. We will consider the formation process and the binding and dissociation. The interaction between defects and polarization and the effect of impurity and O-vacancies on piezo-electrics and ferroelectrics will be also discussed.

欢迎感兴趣的老师和研究生参加!