



IUMRS-ICEM 2018

AUGUST 19(SUN.) - 24(FRI.), 2018 / DAEJEON, KOREA

Session Title	Design of Advanced Materials II	Session Code	We-I3
Date and Time	2018-08-22 / 16:00 - 18:00		
Place	Room I		
Session Chair	TBA		

We-I3-1

16:00 - 16:30

[Invited]Atomic-Layer Alignment Tuning of Metalthin-Film Multilayer for Perpendicular Magnetocrystalline Anisotropy and Its Electric Field Modification

K. Nakamura^{1,2}, A. -M. Pradipto¹, T. Akiyama¹, T. Ito¹, and T. Oguch^{2,3}
¹Mie Univ., Japan, ²AIST, Japan, ³Osaka Univ., Japan

We-I3-2

16:30 - 16:45

First-Principles Study on Structural and Electronic Properties of Ge-based Hybrid Perovskites

Narasak Pandech^{1,2,3}, Thanundon Kongnok^{1,2}, Sukit Limpijumnong^{1,2}, and Walter R. L Lambrecht³
¹Suranaree Univ. of Tech., Thailand, ²Synchrotron Light Research Inst., Thailand, ³Case Western Reserve Univ., USA

We-I3-3

16:45 - 17:00

Effects of Ligands on the Stability and Electronic Properties of Tin Halide Perovskite Layers: An Ab Initio Study

Anu Bala¹ and Vijay Kumar^{1,2}
¹Shiv Nadar Univ., India ²Dr. Vijay Kumar Foundation, India

We-I3-4

17:00 - 17:30

[Invited]Electric-Field Controlled Magnetism Inrare-Earth based Oxide Heterostructures

Anderson Janotti
Univ. of Delaware, USA

We-I3-5

17:30 - 17:45

Mechanism of Resistance Switching in MAPbI₃-based Memristor from First-Principles Calculations

Seong Hun Kim and Donghwa Lee
POSTECH, Korea