

Oxide Thin Films and Nano-composites Surface-related Science and Engineering

Invited Speakers

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IUMRS-ICA 2019

20th **I**nternational **U**nion of **M**aterials **R**esearch **S**ocieties
International **C**onference in **A**sia

DATE : September 22(Sun)-26(Thu), 2019

VENUE : Perth Convention and Exhibition Center,
Perth, Australia

DEADLINE for ABSTRACT: April 30, 2019

EARLY BIRD REGISTRATION DEADLINE: June 21, 2019

Call for Papers

Recent material nano-technologies have brought possibilities of fabrication of oxide thin films in nanometric level, as well as other nano-composites. In parallel, recent measurement technologies can supply characterizations of their unique properties arising from limited regions of surfaces and interfaces. The symposium provides an opportunity to share surface-related science and engineering topics on oxide thin films and Nano-composites interactively and interdisciplinary. The ultimate goal is to elucidate commonalities and differences between the multilayer interfaces and nano-composite grain-boundaries to understand intricate roles of grain-boundaries.

Symposium Topics

1. Novel technologies to fabricate oxide nano-materials.
2. Flexible and mechanical oxide materials.
3. Wide categories of functions (semiconducting, superconducting, magnetic, ferroelectric, multiferroic, optical) to understand comprehensively.
4. Understanding of structures and properties of oxide materials effectively exhibiting above functions.
5. Similarities and differences between <normal thin films> and <ultrathin films and multilayers>, influenced by surfaces and interfaces.
6. Similarities and differences between <normal composites> and <nano-composites>, influenced by larger and smaller grain-boundaries.

This symposium was organized in junction between **MRS-J** and **A-MRS** and endorsed by **Team Harmonised Oxides (THO) Japan**.

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