

ICAE 2013

The 2nd International Conference on Advanced Electromaterials

November 12(Tue.)-15(Fri.), 2013 / ICC Jeju, Jeju, Korea

Symposium 13: Korea-China Joint Symposium on Ferroelectricity and Multiferroics

Organizer

Prof. Ill Won Kim (University of Ulsan, Korea)

Co-Organizer

Prof. Kee Hoon Kim (Seoul National University, Korea), **Prof. Di Wu** (Nanjing University, China), **Prof. Shuxiang Dong** (Peking University, China)

Description

Multiferroics represent an interesting and potentially very important class of materials with coexisting ferroelectric/ferroelastic and magnetic order. The coupling between their order parameters offers the unique opportunity to manipulate the magnetic state through the application of electric fields and tune ferroelectricity by a magnetic field. Increasing theoretical and experimental effort aims at unraveling the mechanism responsible for the extraordinary effect of multiferroicity and the discovery of novel materials with improved functionality. Multiferroic structures in bulk form are actively being explored for high-sensitivity field sensors and electrically tunable microwave devices and oscillators. Thin film forms can be also useful for magnetoelectronic devices including low dimensional spintronic devices with electric field tunable functions. In this symposium, we will discuss in depth the progresses in South Korea and China for the applications and physics understandings of the emergent multiferroic bulk materials as well as multiferroic composite/film structures. In particular, as the major two countries of manufacturing worldwide electronic devices, we will observe recent frontiers and discuss future directions for launching practical devices in the industries of South Korea and China.

Invited Speakers



Prof. Shuxiang Dong
Peking Univ., China



Prof. Ce-Wen Nan
Tsinghua Univ., China



Prof. Jing-Feng Li
Tsinghua Univ., China



Prof. Huiqing Fan
Northwestern Polytechnical Univ., China



Prof. Xiaohui Wang
Tsinghua Univ., China



Prof. Xuefeng Sun
Univ. of Science and Tech. of China, China



Prof. Anquan Jiang
Fudan Univ., China



Dr. JungHo Ryu
KIMS, Korea



Prof. Chan-Ho Yang
KAIST, Korea



Prof. Jaichan Lee
Sungkyunkwan Univ., Korea

Important Dates

- Abstract Submission **June 30, 2013**
- Acceptance Notice **July 15, 2013**
- Early Registration **July 31, 2013**
- Hotel Reservation **August 15, 2013**
- Manuscript Submission **November 12, 2013**

Symposium List

1. Ferroelectrics and Piezoelectrics: Fundamentals and New Materials
2. Ferroelectrics, Piezoelectrics, and Dielectrics: Processing and Applications
3. Nanostructured Materials for Energy Devices
4. Advanced LED and Lighting Technology
5. Thin Film Processing and Devices
6. Flexible and Printable Electronic Materials and Devices
7. Oxide Semiconductors: Fundamentals and Advanced Applications
8. Power Electronic Materials and Devices
9. Advanced Photovoltaic Materials and Devices
10. Advanced Materials for Fuel Cell Technology
11. Energy Storage Materials and Devices
12. Application Technology for Advanced Electromaterials and Devices
13. Korea-China Joint Symposium on Ferroelectricity and

Abstract Submission Guidelines

1. Abstract MUST be submitted online through the ICAE 2013 website by **June 30, 2013**.
2. **The total length of the abstract must not exceed 500 words.**
3. **Please input your abstract into online submission system.**
4. Acknowledgement of your abstract submission will be sent to the presenting/corresponding authors' email addresses.
5. Acceptance notification will be informed by **July 15, 2013**.

Paper Publication

1. Authors whose abstracts are accepted will be requested to submit manuscript by November 12, 2013. (Manuscript submission is not mandatory.)
2. After peer review, all accepted papers will be published in the following leading Journals.
 - **Physica Status Solidi** (SCI / max. 100 papers confirmed)
 - **Japanese Journal of Applied Physics** (SCI / 70 papers confirmed)
 - **Journal of Electroceramics** (SCI / 30 papers confirmed)
 - **Journal of the Korean Physical Society** (SCI / 100 papers confirmed)
 - **International Journal of Hydrogen Energy** (SCI / 40 papers confirmed)
 - **Transactions on Electrical and Electronic Materials** (Scopus, EI Compendex, DOAJ / confirmed)