

# Symposium C-4: *Call for paper*

## Synthesis of functional materials for next generation Innovative devices application (3rd Bilateral MRS-J / E-MRS symposium)



Abstract Submission Deadline – 28th Feb. 2017

This symposium will highlight on syntheses of functional materials for future applications. We discuss chemical and physical processes, focusing on low and high temperature processes, and on low and high energy processes. We also discuss on relations among structures, properties and performances of variety of materials. The symposium covers materials chemistry and materials physics for biomaterials, thin films, metals, semiconductors, optoelectronic materials, fine ceramics, magnetics, superconductors, polymers, meso-materials, nano-materials and composites, etc. Surface and interface sciences, and materials degradations and reliability, are also discussed relating to the syntheses.

**We arrange a special session on electrochemical syntheses and catalytic materials such as  $TiO_2$  with respect to a Keynote Talk by Prof. Akira Fujishima. and applications.**

### Topics of interest include (but are not limited to):

- Low and high temperature, and low and high energy syntheses of functional materials, and applications.
- Organic polymers, organic-inorganic hybrids and composites, and applications.
- Meso and nano scale materials syntheses, and applications.
- Biomaterials and biotechnologies for applications.
- Theories and simulations of materials chemistry and physics.
- Electrochemical syntheses.
- Recent developments and practical uses of catalytic materials such as  $TiO_2$ .

**Keynote speaker: Prof. Akira Fujishima, Sci. Univ. Tokyo, Japan**  
**Prof. Tetsuya Yamamoto, Kochi Univ. Tech., Japan**

### Invited speakers:

Prof. Chennupati Jagadish (Australian National Univ., Australia), Prof. Norbert Fruehauf, (Univ. Stuttgart, Germany), Prof. Xiaowei Sun, (Southern Univ. Sci. Tech., China), Prof. Chaoyang Li, (Kochi Univ. Tech., Japan), Dr. Huaiyu Shao, (Univ. of Macau), Dr. Jungheum Yun (Korea Institute Mater. Sci., Korea), Prof. Frank, Koo (Minghsing Univ.. Sci. Tech., Taiwan), Dr. Hisao Makino, Kochi Univ. Tech., Japan, Dr. Chun-Hong Kuo (Academia Sinica, Taiwan), Dr. Yuri M. Strzhemechny (Texas Christian Uni., USA), Honggang Fu, (Heilongjiang Univ., China), Prof. Rita John, (Univ. Madras, India), Prof. Jih-Jen Wu, (National Cheng Kung Univ., TW), Prof. Helmut Barmgart, (Old Dominion Univ., USA), Dr. Gun-Hwan Lee, (KIMS, Korea), Dr. Jinhong Yu, (CAS, China), Prof. Shunkichi Ueno, (Nihon Univ., Japan), Josep Nogué, (Catalan Institute of Nanoscience and Nanotechnology, Spain), Prof. M.K. Jayaraj, Cochin Univ. Sci. Tech., India), Hsin-Lun Wu, (National Cheng Kung Univ., Taiwan), Dr. Toshiyuki, Kawaharamura, (Kochi Univ. Tech., Japan.), Dr. Katharine Develos-Bagarinao (AIST, Japan). Prof. S.L. Reddy, SVD college, India.

### Organizing committee:

**Chairs:** Prof. **Chaoyang Li** (Kochi Univ. Tech., JP), Prof. **Masahiro Yoshimura**, (National Cheng Kung Univ., TW)

**Correspondence:** Dr. Satoru Kaneko (KITC, JP), Prof. **Hiroaki Nishikawa** (Kinki Univ., JP);

**Co-organizers:** Prof. **Tamio Endo** (Sagamihara Surface Laboratory, JP), Prof. Nan Jiang, (CNITECH, China), Dr. Katherine Develos-Bagarinao (AIST, Japan), Prof. **Yuri Strzhemechny** (Texas Christian Uni., USA), Prof. Jih-Jen Wu, (National Cheng Kung Univ., TW), Prof. Nobuyuki Iwata (Nihon Univ. JP), Prof. **Motofumi Suzuki** (Kyoto Univ.), Prof. Norbert Fruehauf (Univ. Stuttgart, GER), Prof. Elvira Fortunato, Universidade Nova de Lisboa, Portugal