

## Call for Papers

# Science of Advanced Materials

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*A special issue on*

## **“Applications of Metal Oxide Nanostructures”**

As an important family of Nanoscale building blocks, semiconductor nanostructures have significant scientific and technological importance in the emerging nano-electronics and nano-optoelectronics. Among versatile groups of semiconductor nanostructures, the metal oxide semiconductor nanostructures stand out as one of the most common, most diverse and most probably richest class of materials due to their extensive structural, physical and chemical properties and functionalities. These materials display the widest and most fascinating range of properties of any single class of materials.

The aim of this special issue is to sum up the state-of-the-art in multidisciplinary research on the applications of metal oxide nanostructures. The unique and tunable properties of metal oxides nanostructures such as optical, optoelectronic, magnetic, electrical, mechanical, thermal, catalytic and photo-electrochemical, etc made themselves excellent candidates for *various high-level technological applications, such as nanophotonics, spintronics, microelectronics, energy storage and conversion, catalysis, biomedical applications, sensors and actuators and so on.*

This special issue will include all kinds of applications of metal oxide nanostructures. Papers included in this issue are intended to guide readers to explore fruitful adventures in the world of metal oxide nanostructures applications.

We invite submissions of original research articles/communications and comprehensive review papers to this special issue on the following related topics:

- All kinds of applications based on Metal Oxide Nanostructures.
- Energy applications based on Metal Oxide Nanostructures
- Sensors (chemical, bio, gas) applications based on Metal Oxide Nanostructures
- Applications of metal oxide nanostructures in Electronics
- Photonic applications of metal oxide nanostructures
- Bio-medical applications of metal oxide nanostructures
- Other important advanced applications of metal oxide nanostructures

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## MANUSCRIPT SUBMISSION

Manuscripts must be prepared according to Journal's guidelines, available at <http://www.aspbs.com/sam>. Submit your manuscripts in **MS word or PDF format** directly to

**Dr. Yoshitake Masuda** at [masuda-y@aist.go.jp](mailto:masuda-y@aist.go.jp)

All papers submitted to this issue will be subject to a strict peer review process to ensure high quality articles. Please make sure in the cover letter that the submitted paper has not been published previously and is not currently submitted for review to any other journal and will not be submitted elsewhere before a decision is made by this journal.

Please notify well in advance for your intension to submit a research paper.

## KEY TIMETABLE DATES

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Authors' notification: **December 15, 2010**

Publication date: **March, 2010**