

Nanoscience and Nanotechnology Letters (SCI-indexed)

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**A Special Issue on
Advances in Solar Selective Nanostructures and Thin
Films**

Call for Papers

Rising energy costs and environmental concerns worldwide strongly motivate the search for alternative energy sources as well as energy efficient solutions in various production, service or everyday life domains. The solar contribution to the energy cycle is expected to play an ever increasing role. Sustainable energy management requires smart control of solar energy flows either in the context of energy conversion such as solar-thermal or photovoltaic or in the glazing of buildings. For the latter, optically switchable windows can ultimately reduce the buildings' energy consumption by controlling the passing sunlight.

Nanostructured materials are expected to play an increasing role in the solar energy management. For nanostructured materials, macroscale properties are affected not only by the material itself but also by the morphology at the nanoscale. The control and tunability of macroscale properties through size, shape and interface opens new avenues for the development of novel technologies exploring these nanoscale effects. Bottom-up and top-down nanotechnology as well as thin film deposition are major enabling tools that have the potential of becoming key factors for the fabrication of scalable solar selective nanomaterials for energy management. Solar selective thin film and nanostructure advances including the design of supported or encapsulated nanostructures, multilayers, nanostructured and nanocomposite coatings should strive to meet the long term mechanical, optical, and electrical requirements for solar energy conversion devices, concentrated solar power plants or smart windows.

The aim of this special issue is to bring together the recent advances in solar selective nanostructured materials. For this special issue, we invite original and un-published contributions that may be focused, but are not limited, to the establishment of the growth-structure-property relationship and modeling of solar selective nanostructures and thin films.

Guest Editors:

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INTENTION TO SUBMIT AN ARTICLE

- ❖ Please notify the Guest Editors for your kind intention for submitting a research letter article (between 2 and 7 figures) as soon as possible.
- ❖ In your email please also include a tentative title and the estimated length.

MANUSCRIPT SUBMISSION

Manuscripts must be prepared according to the Journal's guidelines, available at <http://aspbs.com/nnl>. Submit your cover letter and manuscript in MS Word or PDF format directly to one of the Guest Editors. All submissions to this special issue will be subjected to a strict peer review process to ensure that only high quality articles are published. Please indicate in your cover letter the names and email addresses of five potential reviewers and 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 final decision is made by this journal.

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IMPORTANT DATES

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Authors Notification: July 31, 2012

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