

CALL FOR PAPERS

SCIENCE of ADVANCED MATERIALS

(*American Scientific Publishers Journal*)

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A Special Issue on

“Advanced Materials for Energy and Environment”

Nowadays, materials for solving environmental and energy problems are hot topics, which promoted the development of modern society. Materials for energy and environment can help produce cleaner and more efficient sources of energy to address our present energy related concerns and steer society to a more sustainable future. Recently, functional nanomaterials with unique characteristics and excellent performances have become hot topics in renewable energy source. The low-dimensional nanostructured materials with high specific surface area and more exposed active surface sites potentially possess innovative physico-chemical properties which considerably facilitate their chemical and electrochemical reactivity.

The special issue of Materials of Energy and Environment is proposed to cover the recent advancements in the field of photocatalysts, electrocatalysts, lithium/sodium ion batteries, sensors, supercapacitors with excellent performance, low cost, outstanding stability and environmental benefit.

The main goal of current issue is to highlight recent researches and provide a platform for future developments of novel multifunctional nanomaterials in design, synthesis, characterization and their energy-conversion related applications. We therefore cordially invite submission of (i) **Research Articles**, (ii) **Communications/ Letters** to editors covering the following topics (but not limited to):

- Nanomaterials for energy conversion, storage and utilization
- Transition metal and carbon nanomaterials based photocatalysts and electrocatalysts
 - Metal oxide/sulfide/selenide/phosphide based lithium/sodium ion battery and supercapacitors
- 0D/1D/2D/3D nanostructured photocatalysts for water splitting, dye degradation and heavy metal ion removal
- Synthetic strategy for the design of multifunctional nanomaterials
- Novel electrocatalysts for hydrogen evolution reaction, oxygen evolution reaction and oxygen reduction reaction
- Photochromic and electrochromic materials
- Fundamental studies of catalysts and electrode materials: synthesis, characterization and theoretical calculation

ABOUT SCIENCE of ADVANCED MATERIALS

Science of Advanced Materials is an interdisciplinary peer-reviewed journal consolidating research activities in all experimental and theoretical aspects of advanced materials in the fields of science, engineering and medicine including synthesis, fabrication, processing,

spectroscopic characterization, physical properties, and applications of all kinds of inorganic and organic materials, metals, semiconductors, superconductors, ceramics, glasses, ferroelectrics, low and high-k dielectrics, sol-gel materials, liquid crystals, biomaterials, organics and polymers, their based electronics, optics, photonics and biological devices.

MANUSCRIPT SUBMISSION

All manuscripts must be 100% original and unpublished which should be prepared according to the Journal's guidelines, available at <http://www.aspbs.com/Science of Advanced Materials.html>. Submit your manuscripts in MS word and PDF format online to the any of the email addresses mentioned below.

In the cover letter, please mention that the manuscript is submitted for the special issue. All papers submitted to this issue will be subjected to a strict peer review process to ensure high quality articles. Mention the name of three potential referees with their contact address and designation in the cover letter.

Authors should submit a statement of novelty and originality in the cover letter to ensure that that the submitted paper is original and it is neither published previously nor submitted to any other journal presently and will not be submitted somewhere else before a final decision is made by this journal. The earlier published articles or submitted for publications in other journals/conference proceedings will not be considered. The language of the manuscript is English.

IMPORTANT DATES

Last date of manuscript submission: **15 October, 2018**

Due Date of completion of Review: **15 November, 2018**

Expected date of publication: **December, 2018**