

# CALL FOR PAPERS

## SCIENCE of ADVANCED MATERIALS

(American Scientific Publishers)

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### A Special Issue on

## “Environmental Functional Nanomaterials for Water Decontamination”

#### Call for Papers

Water is the most important aspect of the human life and development of civilization. Today, the severe crisis in relation to water resources is ahead of us. The main sources of water contamination include waste water discharge from industries, agricultural activities, municipal wastewater, environmental and global changes. The presence of toxic substances, heavy metals, dyes and microorganisms, even in trace amounts, has potential threat to the natural development of eco-system and human health. Recently, environmental functional nanomaterials with unique characteristics and excellent performances have brought a high level of innovation in the sector of water decontamination. Thus, it is important and necessary to develop new strategies to synthesize environmental functional nanomaterials with controlled properties, which will provide unprecedented opportunities to explore cost effective and environmentally acceptable water purification processes.

The aim of this issue is proposed to discuss the recent development of environmental functional materials for their applications in water decontamination. The recent development of novel environmental functional nanomaterials in design, synthesis, characterization and their promising applications potential will be greatly appreciated. Moreover, we paid attention to the interaction and mechanism among nano-materials, microstructure and the performances in water decontamination. We therefore cordially invite submission of (i) **Research Articles**, (ii) **Review articles**; (iii) **Communications/Letters** to editors covering the following topics (but not limited to):

#### Potential topics include, but are not limited to:

- Synthesis strategies and characterization methods of environmental functional nanomaterials
- Films, hydrogels, and aerogel from environmental functional materials
- Interaction and mechanism between different types of environmental functional nanomaterials
- Transition metal and carbon nanomaterials based environmental functional nanomaterials
- Environmental nanomaterials in advanced oxidation processes (AOPs)
- Environmental nanomaterials for water decontamination
- Fundamental studies of environmental functional materials: synthesis strategies and characterization methods
- Novel nano-scale catalysts and adsorbents for water decontamination

#### 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/sam.html>. Submit your manuscripts in MS word and PDF format through [www.mstracker.com](http://www.mstracker.com).
- 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 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.

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### IMPORTANT DATES

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