



Energy Applications of Carbon Nanotubes and Modified Fullerene Structures

Guest Editor:

Prof. Dr. Thomas Wågberg

Physics Department, Umeå
University, SE-901 87 Umeå,
Sweden

Thomas.Wagberg@umu.se

Deadline for manuscript
submissions:

15 September 2018

Message from the Guest Editor

Dear Colleagues,

Carbon nanostructures, such as single- and multiwalled carbon nanotubes, carbon fibers, and fullerenes have attracted a tremendous amount of attention over the last two decades. In recent years, much of this attention has been focused on various energy applications, in particular, in the field of renewable energy, such as water splitting and fuel cells, and also organic solar cells. The applications of carbon nanostructures take advantage of the intrinsic catalytic properties of modified carbon nanostructures, their excellent applicability as anchoring support for various metallic nanoparticles or the use of functional groups on fullerenes to increase their solubility for solution processing.

This Special Issue of Nanomaterials will attempt to cover the recent advancements in the research of carbon nanostructures for energy applications, such as water splitting, fuel cells, and solar cells with a focus on the modification of carbon nanostructures by various functional groups, defects and/or dopants.

Prof. Dr. Thomas Wågberg

Guest Editor





An Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Shirley Chiang

Department of Physics, University of California Davis, One Shields Avenue, Davis, CA 95616-5270, USA

Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal-organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High visibility: indexed by the Science Citation Index Expanded (Web of Science), Scopus, Chemical Abstracts, Inspec and Polymer Library. Citations available in PubMed, full-text archived in PubMed Central

Rapid publication: manuscripts are peer-reviewed and a first decision provided to authors approximately 17 days after submission; acceptance to publication is undertaken in 6.8 days (median values for papers published in this journal in 2017).

Contact us

Nanomaterials
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

mdpi.com/journal/nanomaterials
nanomaterials@mdpi.com