



Supercapacitors from Nano-Engineered Films

Guest Editors:

Dr. Teresa Moura E Silva

Instituto Superior de Engenharia
de Lisboa, Lisbon, Portugal

**Prof. Maria de Fatima
Montemor**

Centro de Quimica Estrutural at
Instituto Superior Tecnico,
Lisbon, Portugal

Deadline for manuscript
submissions:

closed (25 June 2019)

Message from the Guest Editors

Supercapacitors are devices presenting a high power rate and a long cycle-life, and are the perfect answer to this above-mentioned need. However, these devices can store only moderate values of energy, so, in recent decades, much scientific effort has been devoted to overcoming this limitation. Materials play a pivotal role in enabling the development of novel supercapacitors, accordingly, the development of novel nano-engineered materials is crucial. Numerous new materials, ranging from different forms of carbon, with porosities and surface areas tailored to the enhanced electrochemical double layer response, to nanostructured metal compounds for redox based supercapacitors and asymmetric devices, are attracting increasing attention for such applications. This Specials Issue aims to bring together high-level contributions in nano-engineered materials and functional electrodes to develop the latest generation of supercapacitors. It is our pleasure to invite you to submit a manuscript to this Special Issue to give a balanced view of the current state-of-the-art and future prospects in this field.





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 within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [CAPlus / SciFinder](#), [Inspecc](#), and [other databases](#).

Journal Rank: JCR - Q1 (*Physics, Applied*) / CiteScore - Q1 (*General Chemical Engineering*)

Contact Us

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

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/nanomaterials
nanomaterials@mdpi.com
[X@nano_mdpi](#)