Special Issue

Sulfur Based Nanomaterials for Secondary Batteries

Message from the Guest Editors

Secondary batteries based on alkaline or alkaline-earth metal ions are promising candidates as energy storage systems for stationary, automotive and portable applications. The most important characteristics for these types of devices are energy and power densities. safety and cost. The electrode and electrolyte materials play a major role in determining the performance of each battery technology. This special issue will focus on the synthesis, functionalization, characterization, chemical and physical properties, application, theory, and modeling of sulfur-based nanostructured materials for secondary batteries. The Issue aims to provide a comprehensive overview of the recent and forthcoming progress in the field. It will help researchers working on rechargeable batteries to orient in the waste production that is possible to find in the literature. We invite interested authors to submit their original experimental. theoretical and review papers focusing on the subject for inclusion in this Special issue.

Guest Editors

Dr. Mauro Francesco Sgroi

Materials Engineering, Methods and Tools, Centro Ricerche FIAT, Strada Torino 50, 10043 Orbassano, Italy

Dr. Carlotta Francia

Electrochemistry Group, Department of Applied Science and Technology (DISAT), Politecnico di Torino, C.so Duca degli Abruzzi 24, 10129 Torino, Italy

Deadline for manuscript submissions

closed (31 May 2023)



Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/118149

Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

mdpi.com/journal/nanomaterials





Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3 CiteScore 9.2 Indexed in PubMed



About the Journal

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 nanometerscale 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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering)

