Special Issue

Nanofiber-Based Materials for Electrochemical Energy Storage Devices

Message from the Guest Editors

In recent years, electrochemical storage technologies have played a crucial role due to growing renewable energy sources and their integration into the electricity grid. Research activity is currently focused on the electrochemical parameter optimization of innovative and efficient materials for energy applications in order to improve performance at battery cell and battery system design levels. This means addressing the synthesis and development of cost-effective materials able to improve power density, cyclability, round-trip efficiency, etc. both for more mature electrochemical storage device and for the most promising post-lithium batteries. Technical papers dealing with recent results and advances in the field of nanofibers and composite nanostructured materials for energy applications, in particular for electrochemical energy storage purposes, are warmly invited.

- Nanofiber-based materials
- Electrospinning technique
- Redox flow battery
- Lead-acid battery
- Sodium-ion battery
- Charge/discharge cycles
- Cell and stack technology

Guest Editors

Dr. Alessandra Di Blasi
Institute of Advanced Technologies for Energy, Messina, Italy

Dr. Concetta Busacca
Institute of Advanced Technologies for Energy, Italian National Research Council, 98126 Messina, Italy

Deadline for manuscript submissions

closed (30 June 2021)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/43313

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)