

Special Issue

Advances in High-Performance Supercapacitor

Message from the Guest Editors

The global community will soon be witnessing a significant scarcity of energy as conventional energy resources are being depleted day by day. Therefore, alternative renewable energy resources such as solar energy, wind energy, ocean energy, etc. are attracting an enormous amount of attention. Unfortunately, almost all renewable energy resources are intermittent in nature, and it is difficult to generate energy continuously. As such, there is a need to store the energy that is produced during the presence of energy sources and utilize it in the absence of energy sources.

Supercapacitors are emerging as prominent energy storage devices owing to their unique properties, such as sharp charge/discharge rates and longer lifetimes. However, for commercial usage, the energy density of supercapacitors should be enhanced. Therefore, the current Special Issue focuses on the development of novel electrodes and electrolytes for the enhancement of the energy density of the device.

Guest Editors

Dr. Nagabandi Jayababu

Indian Institute of Science Education and Research (IISER) Berhampur,
Odisha, India

Dr. Narsimulu Daulatabad

Institute for Wearable Convergence Electronics. Department of
Electronic Engineering, Kyung Hee University, 26 Kyungheedaero,
Dongdaemun-gu, Seoul, Korea

Deadline for manuscript submissions

closed (10 May 2023)



Batteries

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 6.6



mdpi.com/si/147038

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

[mdpi.com/journal/
batteries](https://mdpi.com/journal/batteries)





Batteries

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 6.6



[mdpi.com/journal/
batteries](https://mdpi.com/journal/batteries)



About the Journal

Message from the Editor-in-Chief

Take the opportunity to publish your original scientific work or a review paper concerning battery materials, battery technology or battery application within this new open access journal. Along with material science, the journal also addresses engineering and multidisciplinary research topics, such as cell and system design or storage system integration. Publishing proffers visibility for the benefit of other experts and facilitates discussion of the research results within the field. You are invited to publish your work, read published papers and to participate in topical discussions.

Editor-in-Chief

Prof. Dr. Karim Zaghib

Department of Chemical and Materials Engineering, Concordia
University, Montréal, QC H3G 1M8, Canada

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

Journal Rank:

JCR - Q2 (Electrochemistry) / CiteScore - Q1 (Electrical and Electronic Engineering)