





an Open Access Journal by MDPI

Electrode Materials for Electrochemical Supercapacitors

Guest Editors:

Dr. John Anthuvan Raiesh

School of Chemical Engineering, Yeungnam University, Gyeongsan 712-749, Republic of Korea

Dr. Aravindha Raia Selvarai

Information Material & Device Laboratory (IMDL), Advanced Materials Science & Engineering, Sungkyunkwan University (SKKU), Suwon-si 16419, Gyeonggi-do, Republic of Korea

Deadline for manuscript submissions:

closed (15 January 2024)

Message from the Guest Editors

Dear Colleagues,

Energy storage is a vital component of the energy system due to the enormous energy requirements of modern society. Three primary energy storage devices that can store energy include batteries, fuel cells. supercapacitors. Of these, supercapacitors (SCs) or electrochemical capacitors have great potential in portable electronics, power grids, hybrid electric vehicles, and so on. Generally, electrochemical supercapacitors' performance relies on the physical and electrochemical properties of their electrode materials. Given the increasing demand for supercapacitors, developing corresponding electrode materials that are richer in faradaic reactions, valence states, longstanding stability, and earth abundance is necessary. Therefore, this Special Issue focuses on new electrode materials preparation and their application in electrochemical supercapacitors. Potential topics include, but are not limited to:

- Electrical double layer capacitor-type electrode materials;
- Pseudocapacitor-type electrode materials;
- Battery-type electrode materials;
- Asymmetric/Hybrid supercapacitors;
- Hierarchical materials for supercapacitors.











an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Karim Zaghib

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

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.

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 - Q2 (Electrical and Electronic

Engineering)

Contact Us