Special Issue

Application and Research Progress of Materials and Devices for Electrochemical Energy Storage

Message from the Guest Editor

This Special Issue reports significant new findings in energy storage materials and devices related to theoretical simulations, electrode materials. electrolytes, as well as separators and binders synthesis and fabrication, electrochemical characterization. electrochemical performance and technological applications. It is important and necessary to provide the latest updates as well as thermodynamic and kinetic mechanism studies for the international community to understand, design and develop better energy storage materials and devices. We are looking forward to receiving original research and review papers to be published in this Special Issue. Topics of interest include, but are not limited to: Novel energy storage materials, cathodes, anodes, electrolytes, separators and binders:

Thermodynamics and dynamics simulation; Electrode design and optimization; Performance degradation studies; Energy storage mechanism analysis; Electrochemical characterization methods; Energy storage devices' life and safety; Energy storage devices' applications.

Guest Editor

Prof. Dr. Ruimin Sun

School of Materials Science and Chemistry, China University of Geosciences, Wuhan, China

Deadline for manuscript submissions

closed (29 February 2024)



Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



mdpi.com/si/166461

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



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)

