

Special Issue

Nano Materials for Electrochemical Energy Storage

Message from the Guest Editors

Electrochemical energy storage devices (e.g., capacitors and secondary batteries) play very important roles in the efficient utilization of renewable and clean energy (e.g., solar and wind energy). The device performance is highly dependent on the electrode materials. Nano materials (e.g., nano carbon materials) are promising electrode materials for electrochemical energy storage due to their unique structural morphologies and specific chemical compositions. The nanostructures (e.g., 0D nanodot, 1D nanofiber, 2D nanosheet, and 3D porous network) supply large electrolyte/electrode surfaces for fast ionic diffusion and provide numerous active sites for ion storage. Therefore, the nano materials show superior performance as electrode materials for energy storage, realizing the assembly of capacitors and secondary batteries with high energy, high power, and long lifetime. In this Special Issue, we invite the research community in the field to contribute original scientific articles exploring cutting-edge research and recent advances in Nano materials for Electrochemical Energy Storage.

Guest Editors

Dr. Jin Niu

School of Materials Science and Engineering, Beijing University of Chemical Technology, Beijing 100029, China

Dr. Yaxin Chen

School of Materials and Physics, China University of Mining and Technology, Xuzhou, China

Deadline for manuscript submissions

closed (20 July 2023)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/158559

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

mdpi.com/journal/

[appls](https://appls.mdpi.com)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



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



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)