

Special Issue

Advanced Nanomaterials and Electrochemical Technologies for Sustainable Energy Storage and Conversion

Message from the Guest Editor

This Special Issue presents a curated collection of original research articles, reviews, and perspectives focused on the development, characterization, and application of nanomaterials and electrochemical technologies to address the global challenge of achieving sustainable energy. Nanomaterials include 1D, 2D, and 3D materials with one or more dimension below 100 nm, as well as nanostructured materials. The articles presented in this Special Issue explore innovative approaches to enhancing the performance, efficiency, scalability, and environmental impact of energy-storage and -conversion systems by including nanoscale and nanostructured materials in electrochemical systems and processes. Topics include the synthesis and characterization of nanomaterials and their applications in batteries, fuel cells, electrochemical capacitors, and (photo)electrocatalysis; energy harvesting; bioinspired and biomass-derived nanomaterials; and carbon-negative nanomaterials and processes.

Guest Editor

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Deadline for manuscript submissions

20 November 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/255786

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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

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