

Special Issue

Molecular Design of Sustainable Approaches for Advanced Battery Systems

Message from the Guest Editors

In a technologically advanced world where mobility is essential, there is an increasing demand for the development of more eco-friendly, efficient, and effective energy storage systems to be applied in a wide range of applications. The paradigm is to develop novel materials and structures for the various battery components (electrodes, separators, and solid polymer electrolytes) for different energy storage systems through molecular design at different levels). This should result in batteries with improved discharge capacity, excellent cycling performance, and minimal volume change after numerous charge cycles. This Special Issue seeks to address the use of sustainable materials and battery system solutions in this context, with a focus on the molecular properties of the various materials present in the different components of the batteries and how these properties allow the improvement of their functional response and the overall battery performance. It is our pleasure to invite you to submit original research papers or state-of-the-art reviews within the scope of this Special Issue.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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