

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

closed (30 July 2024)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/195613

*International Journal of
Molecular Sciences*
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