Special Issue

Electrode Materials in Lithium-Ion Batteries

Message from the Guest Editor

Lithium-ion battery electrode materials play a key role in determining the energy density, lifecycle, and safety performance of batteries, so it is imperative to study the positive and negative electrode materials of lithium-ion batteries. This Special Issue aims to introduce the relevant knowledge of lithium-ion batteries, introduce their preparation in detail, improvement methods, and the electrochemical properties of various new lithium-ion battery positive- and negative-electrode materials, as well as summarize the advantages and disadvantages of various electrode materials. It is expected that, in the future, the research and development of electrode materials will focus on the direction of high specific capacity, high charge–discharge efficiency, high cycle performance, and low cost. This Special Issue aims to report on and exchange the latest research progress in the field of electrode materials in lithium-ion batteries and provide theoretical and technical support for promoting the development of lithium-ion batteries. Therefore, we invite scholars to submit articles related to this topic to share findings and insights on lithium-ion battery electrode materials.

Guest Editor

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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

Editor-in-Chief

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