

Special Issue

Li-Ion Battery Materials: Latest Advances and Prospects

Message from the Guest Editors

Lithium-ion batteries (LIBs) have become an indispensable part of everyday life. The triumph of this battery technology is based on its superior properties in terms of energy density, lifetime, and safety. It is primarily the battery materials (both active and inactive) and their ongoing development that have led to the current performance. To provide a comprehensive overview and deep insights into current LIB material developments and future prospects, this Special Issue will focus on the following topics: LIB anodes, cathode active material, as well as electrolytes, including additive developments to improve:

- Specific and volumetric energies;
- Rate performance;
- Lifetime (shelf and cycle life);
- Safety;
- Cost efficiency;
- Sustainability (recyclability, alternative raw and processing materials, environmental impact, content of critical raw materials, (re-)synthesis).

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Take the opportunity to publish your original scientific work or a review paper concerning battery materials, battery technology or battery application within this new open access journal. Along with material science, the journal also addresses engineering and multidisciplinary research topics, such as cell and system design or storage system integration. Publishing proffers visibility for the benefit of other experts and facilitates discussion of the research results within the field. You are invited to publish your work, read published papers and to participate in topical discussions.

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