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# **Smart and Functional Materials for Lithium-Ion Battery**

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Deadline for manuscript submissions: closed (31 March 2021)



## **Message from the Guest Editors**

Dear Colleagues,

In a society increasingly based on mobility, the efficient use of energy is often intimately related to energy storage. The most used energy storage systems are lithium-ion batteries, with a global market growth of 8.5% for portable electronic devices and electric vehicles. The common challenges associated with lithium-ion battery systems include the improvement of performance, conversion efficiency, energy/power density, discharge rate, and lifetime, while reducing the production and operation costs. In order to improve lithium-ion battery performance it is essential to develop a new generation of smart and (multi)functional materials for both electrodes and separators, allowing the fine control and optimization of the key physico-chemical processes that influence battery performance.

It is our pleasure to invite you to submit original research papers, short communications, or state-of-the-art reviews within the scope of this Special Issue. Contributions can range from fundamental properties of materials, their processing, and characterization to innovations in processing technologies, geometries, or lithium-ion battery applications.







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### Message from the Editor-in-Chief

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