Special Issue

Anodes for High-Performance Li-Ion Batteries

Message from the Guest Editor

Lithium-ion batteries (LIBs) have witnessed increasing attention due to their acceptable cost, robust electrochemical performance, and environmental compatibility. With the increasing application of LIBs in electric vehicles and renewable energy storage grids, high energy density battery systems are urgently required. However, its energy density is limited by the electrode materials (especially for anode materials). Therefore, to realize high energy density LIBs, advanced anode materials with high specific capacity and stable electrochemical performance are highly desirable. In this Special Issue, we are looking for contributions helping to develop advanced anode materials for high energy density LIBs, including carbon-based anodes, alloy-type anodes (e.g., Si, Sn), metal compound anodes, and organic anode materials. In addition, the development of novel binders for high-capacity anode materials is also welcomed. This Special Issue is intended to bring the latest updates and future prospects of advanced anode materials in LIBs.

Guest Editor

Dr. Dong Liu
College of Chemical Engineering, Beijing University of Chemical Technology, Beijing 100029, China.

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Batteries
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
batteries@mdpi.com

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Editor-in-Chief

Prof. Dr. Karim Zaghib
Department of Chemical and Materials Engineering, Concordia University, Montréal, QC H3G 1M8, Canada

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