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Optimization and Exploration of Novel Electrode Materials for Lithium-Ion/Solid State Batteries

Guest Editors:

Prof. Dr. Karim Zaghib
Center of Excellence in Transportation Electrification and Energy Storage, Hydro-Québec, 1806 boulevard Lionel-Boulet, Varennes, QC J3X 1S1, Canada

Dr. Yuesheng Wang
Center of Excellence in Transportation Electrification and Energy Storage, Hydro-Québec, 1806 boulevard Lionel-Boulet, Varennes, QC J3X 1S1, Canada

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Message from the Guest Editors

Lithium-ion batteries are commonly used for consumer electronics with one of the best energy-to-weight ratios. Beyond consumer electronics, lithium-ion batteries are growing in popularity for electric vehicles due to their high energy density, long cycle life, and high-rate performance.

In recent years, new electrode materials with unique physical and chemical properties have been designed to meet the requirements of the automotive industry. However, the high cost of lithium-ion batteries is still a major challenge, and the optimization of existing active materials and exploration of novel electrodes are urgent matters.

This Special Issue focuses on the optimization of existing electrodes and the exploration of novel electrodes for lithium-ion end solid state batteries. We welcome authors to submit relevant articles to this issue to share the lastest trends and promote the development of high specific capacity batteries.

Keywords: cathode; anodes; oxides; olivine; polymer; lithium metal; lithium ion batteries; solid state batteries

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Editors-in-Chief

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1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Prof. Dr. Yuguang Ma
State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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