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Layered Structured Materials for Batteries

Guest Editors:

Dr. Qidi Wang
Department of Radiation Science and Technology, Delft University of Technology, 2629 JB Delft, The Netherlands

Dr. Zhenpeng Yao
The State Key Laboratory of Metal Matrix Composites, School of Materials Science and Engineering, Shanghai Jiao Tong University, Shanghai 200240, China

Dr. Chenglong Zhao
Department of Radiation Science and Technology, Delft University of Technology, 2629 JB Delft, The Netherlands

Deadline for manuscript submissions:
closed (10 October 2024)

Message from the Guest Editors

Dear Colleagues,

As rechargeable batteries are upgraded, layered structured materials have attracted significant attention for their high compositional diversity that provides tunable electrochemical performance for both electrodes and electrolytes in batteries. Given the escalating demand for energy storage, there is an urgent need to explore the huge compositional space for the development of advanced materials aimed at enhancing the performance of batteries. In this Special Issue, we are calling for papers to promote current research on this topic, which covers layered structured materials for batteries and their characterizations, as well as fundamental understandings to guide material design.

Potential topics include but are not limited to the following:

1. High-capacity electrode materials;
2. High-performance solid-state electrolyte materials;
3. Novel synthesis procedures for electrode/electrolyte materials;
4. Advanced characterization techniques for material analysis;
5. Modeling and simulations on batteries;
6. Ion transport mechanism for fundamental understandings, etc.

Dr. Qidi Wang, Dr. Zhenpeng Yao and Dr. Chenglong Zhao
Guest Editors

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Editor-in-Chief

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

Message from the Editor-in-Chief

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Batteries Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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