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Challenges of Current and Next-Generation Electrochemical Energy Storage Materials

Guest Editor:

Dr. Chuan Cheng

School of Engineering, Newcastle
University, Newcastle upon Tyne
NE1 7RU, UK

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Message from the Guest Editor

Dear Colleagues,

Electrochemical energy storage materials have enabled large-scale applications of lithium-ion batteries in electric vehicles and grid energy storage, promoting the future fulfillment of net-zero emission targets set by different countries. There are several critical challenges associated with electrochemical energy storage systems include energy density, cost, degradation, energy storage safety, the supply chain of raw materials, and the environment impact on the manufacturing and recycling of energy storage materials and systems. New and/or carefully engineered materials may provide essential or revolutionary solutions to address these challenges. This Special Issue focuses on novel and emerging next-generation electrochemical energy storage materials, which can help to address current scientific challenges and act as feasible practical applications in next-generation energy storage devices. This Special issue will publish high-quality and peer-reviewed research and review articles.

Dr. Chuan Cheng
Guest Editor



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Special Issue



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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

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

Message from the Editor-in-Chief

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Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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