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Advanced Battery Materials for Energy Storage

Guest Editor:

Prof. Dr. Mohd Asyadi Azam
1. Faculty of Industrial and Manufacturing Technology and Engineering, Universiti Teknikal Malaysia Melaka, Hang Tuah Jaya, Durian Tunggal, Melaka 76100, Malaysia
2. Center for Promotion of Educational Innovation, Shibaura Institute of Technology, 3 Chome-7-5 Toyosu, Koto City, Tokyo 135-8548, Japan

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Message from the Guest Editor

Dear Colleagues,

The rapid development of renewable energy sources has accelerated the growth of smart grid systems, which necessitate high-energy, low-cost batteries such as lithium-ion, sodium-ion, and potassium-ion. Nowadays, significant progress has been made in terms of using nanostructure materials as electrodes for batteries. It is vital to thoroughly understand the storage mechanism of nanostructure materials in order to both facilitate the commercialization of nanostructure materials as electrode materials and observe the relation to the electrochemical performance. Topics of interest for publication include but are not limited to:

- Carbon nanomaterials (graphite, graphene, CNT) as anode in lithium-ion batteries (LIBs).
- Recent advanced cathode materials for LIBs.
- Recent advanced anode materials for LIBs.
- 2D materials as electrode in LIBs and supercapacitors.
- Modelling and simulation, including first-principles study of electrode materials in energy storage device.
- Application-related development of electrode materials in advanced batteries and supercapacitors.

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Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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