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New Energy Storage Materials for Rechargeable Batteries

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Rechargeable batteries are the most important power sources for energy storage systems. With the advancements in 5G, electric vehicles, and clean energy such as wind and solar energy, rechargeable batteries with a high energy capacity, high safety level, long cycling life, low cost, green characteristics, and abundant resources are in demand. There has also been a growing research trend towards new energy materials for all types of ion battery, such as MXene, covalent–organic frameworks, metal–organic frameworks, liquid metals, biomaterials, solid state electrolytes, and so on.

This Special Issue is proposed to provide and share recent research and developments on new energy storage materials for rechargeable batteries, including lithium ion batteries, sodium ion batteries, potassium ion batteries, calcium ion batteries, and zinc ion batteries, along with other rechargeable batteries, as well as on their synthesis, characterization, properties, and simulations. The contributions in this Special Issue will be of great interest to researchers working in the field of energy storage materials and batteries.

Prof. Dr. Jinkui Feng
Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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