Special Issue

Sustainable and Systematic Recycling of Lithium-Ion Batteries

Message from the Guest Editor

Ever-growing global energy needs and environmental damage have motivated the pursuit of sustainable energy sources and storage technologies. As attractive energy storage technologies to integrate renewable resources and electric transportation, lithium-ion batteries are undergoing unprecedented rapid development. However, the intrinsic toxicity of rechargeable batteries arising from their use of toxic materials is potentially environmentally hazardous. Additionally, the massive production of batteries consumes numerous resources, some of which are scarce. It is therefore essential to consider battery recycling when developing battery systems. This Special Issue is focused on bringing together the innovative research and key development of advanced LIB recycling technologies. Potential topics include, but are not limited to:

- State-of-the-art fundamental research and industrial technologies related to LIB recycling
- Economic and environmental assessment of recycling technologies
- Second use of spent LIBs

Guest Editor

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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