



## Advanced Application Technology of Lithium-Ion Batteries

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Deadline for manuscript  
submissions:

**closed (31 December 2023)**

### Message from the Guest Editors

Join us in exploring the latest advancements in lithium-ion battery application technologies. Since their introduction in the late 1980s, lithium-ion batteries have revolutionized various industries, powering electronic devices, vehicles, and renewable energy systems. As the demand for lithium-ion batteries continues to grow, the need for advanced application technologies becomes increasingly crucial. These technologies must address challenges such as energy density, cost, cycling life, safety, and environmental sustainability. This special issue focuses on addressing the increasing requirements for high energy density, low cost, long cycling life, safety, and environmental friendliness.

### [Topics of Interest]

- Advanced battery modeling
- State of charge, health, and cycling life estimation methods
- Fast charging and safety strategies
- Battery failure diagnosis and identification
- AI-assisted battery simulation
- Low-temperature heating and heat dissipation
- Advanced sensors and smart batteries
- Design and synthesis of battery materials
- Advanced characterization techniques





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## Editor-in-Chief

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## Message from the Editor-in-Chief

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