

## Monitoring and Simulation for Battery System

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### Message from the Guest Editors

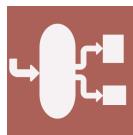
Dear Colleagues,

With the drive towards a low carbon future, improved energy storage, in particular batteries, is one of the major global challenges facing society today. Lithium-ion batteries (LiIBs) are the preferred choice for home and portable electronics, battery electric vehicles and aerospace applications due to their high energy density and low self-discharge. However, there are also associated risks to them.

Lithium-ion battery packs are the predominant energy storage systems in aircraft, electric vehicles, portable devices and other equipment requiring a reliable, high-energy-density, low-weight power source. The battery management system (BMS) is an electronic system responsible for safe operation, performance and battery life under charge-discharge cycles. Devices to monitor and simulate battery systems have attracted a lot of interest over the last two decades.

In this Special Issue, we will be looking at new models for simulation to develop safer and stronger batteries.





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