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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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Message from the Editor-in-Chief

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