

Special Issue

Thermal Runaway Prognostics and Thermal Management of Li-Ion Batteries in Electric Vehicles

Message from the Guest Editors

This Special Issue aims to explore the latest advancements in thermal runaway prognostics and thermal management strategies for lithium-ion batteries in electric vehicles. By addressing the challenges associated with battery thermal management, we can enhance the safety, performance, and overall sustainability of EVs.

We welcome submissions that address topics including, but not limited to, the following:

1. Theoretical studies and numerical simulations of thermal runaway mechanisms in Li-ion batteries;
2. Advancements and applications of thermal runaway prognostics and fault diagnosis techniques;
3. Design, optimization, and validation of thermal management strategies for Li-ion batteries;
4. Application of novel materials in thermal management of Li-ion batteries;
5. Case studies and analysis of thermal runaway incidents in electric vehicles;
6. Safety assessment and standards development for thermal runaway prognostics and thermal management of Li-ion batteries;
7. Fast-charging techniques of Li-ion batteries while guaranteeing the safety of batteries;
8. Battery heating techniques in low-temperature cases.

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Deadline for manuscript submissions

closed (2 April 2024)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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