

Special Issue

Advances in Lithium-Ion Battery Safety and Fire: 2nd Edition

Message from the Guest Editors

This Special Issue focuses on advances in the fundamental science and key technologies for thermal safety and management with regard to the related fire and explosion of batteries, including mechanisms, modelling, characteristics, monitoring, control, standard, etc. Potential topics include, but are not limited to, the following:

- Intrinsic design for battery safety;
- Insights into thermal runaway/propagation mechanisms and numerical modelling analysis;
- Advanced thermal management strategies;
- Multi-scale battery fire tests;
- Process safety and emergency disposal of batteries during transportation;
- Ageing mechanisms, diagnostic method and regulation measures under different paths;
- Characteristics and evaluation of battery fire and explosion;
- Detection, monitoring and early warning of battery thermal runaway and fire;
- Explosion suppression and fire extinguishing involving battery fire;
- Safety standards for battery production, storage, transportation, and usage processes;
- Fire safety theory, technology, and equipment.....
- Fire risk assessment.....

Guest Editors

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Deadline for manuscript submissions

25 November 2025



Batteries

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Message from the Editor-in-Chief

Take the opportunity to publish your original scientific work or a review paper concerning battery materials, battery technology or battery application within this new open access journal. Along with material science, the journal also addresses engineering and multidisciplinary research topics, such as cell and system design or storage system integration. Publishing proffers visibility for the benefit of other experts and facilitates discussion of the research results within the field. You are invited to publish your work, read published papers and to participate in topical discussions.

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