Battery safety tskhinvali

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Feature papers represent the most advanced research with significant potential for high impact in the field. A Feature Paper should be a substantial original Article that involves several techniques or approaches, provides an outlook for future research directions and describes possible research applications.

Editor"s Choice articles are based on recommendations by the scientific editors of MDPI journals from around the world. Editors select a small number of articles recently published in the journal that they believe will be particularly interesting to readers, or important in the respective research area. The aim is to provide a snapshot of some of the most exciting work published in the various research areas of the journal.

Lithium-ion batteries (LiBs) have penetrated deeply into all levels of society at a rate that has exceeded our understanding of the attendant risks and hazards. They are found in a wide range of devices of diverse sizes, from mobile phones via micromobility devices (e.g., e-bikes) to electric vehicles (EV) and grid-scale battery energy storage systems (BESS). Even though relatively safe, like all technology, LiBs fail, and the ever-growing number of LiBs in everyday life is likely to result in more failures.

As there are more batteries than ever on the market—more powerful than prior iterations and with amended chemistry—it is mandatory to review and progress with the safety of LiBs as the technology landscape is changing fast.

This Special Issue aims to highlight new research concerning safety on various levels, from a single cell to grid-scale BESS. As such, you are invited to submit your original research, reviews and opinion pieces on the topics of chemistry changes, the evolution of battery management systems, pack design or ways to mitigate or combat thermal runaway. These can be experimental or modeling studies. Materials concerning legislations and standards and assessments of the impact of LiBs’ failure on the surrounding environment (car parks, households, ferries) are also welcomed.

Submitted manuscripts should not have been published previously, nor be under consideration for publication elsewhere (except conference proceedings papers). All manuscripts are thoroughly refereed through a single-blind peer-review process. A guide for authors and other relevant information for submission of manuscripts is available on the Instructions for Authors page. Batteries is an international peer-reviewed open access monthly journal published by MDPI.

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