

## Special Issue

# Battery Safety Diagnostics for Aerospace Electrification

### Message from the Guest Editor

With the mandate of short-hull passenger flights by all-electric airplanes in 2040, the safety of battery systems never been of such great importance. Although batteries have successfully paved their way to the automotive industry, aerospace organizations continue to express concerns about battery safety. The academic and industrial communities thus need to extend their battery research that has so successfully accelerated the electrification of passenger cars into the future of air transport. To address these new challenges and opportunities, this Special Issue will focus on battery safety concerns and their diagnostic methodologies. Therefore, the topics of the contributions include but are not limited to:

- Review of battery safety methodologies;
- Recent progress on battery safety performance;
- Novel methodologies for battery safety characterization;
- Novel technologies for safer batteries;
- Experimental studies to evaluate battery safety performance;
- Battery safety modeling;
- Autopsy studies of failed battery pack/module/cell;
- New cell/module/pack design to improve battery safety performance;
- Lighter, safer materials/design of battery pack for aerospace applications.

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### Guest Editor

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### Deadline for manuscript submissions

closed (30 September 2021)



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### Message from the Editor-in-Chief

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### Editor-in-Chief

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