



fire



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LiB Fire

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Deadline for manuscript submissions:

closed (31 October 2023)

Message from the Guest Editors

Lithium-ion batteries are the most prevalent devices for electrochemical energy storage due to their high energy density and specific energy, as well as environmentally friendly and sustainable characteristics. However, one of the primary remaining concerns, battery safety, has always been placed in a subordinate position without being paid enough attention; thus, this has resulted in hazardous events in automobiles, aircraft, and energy storage, all of which had hindered the further application of lithium-ion batteries. In this Special Issue, we seek articles associated with lithium-ion batteries dealing with thermal runaway and propagation mechanisms, fire and explosive dynamics, as well as fire detection and suppression. Moreover, articles dealing with heat generation, gas generation during thermal runaway, thermal management to weaken battery temperature, fire assessment in production, transportation, and storage, and usage assessments of lithium-ion batteries are also highly desirable. Articles using both experimental and modelling approaches are very much welcome.



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Special Issue