Batteries

an Open Access Journal by MDPI

CiteScore: 6.6
Impact Factor: 4.8

Special Issue Reprint

Advances in Lithium-Ion Battery Safety and Fire

Edited by: Zhi Wang , Tong Liu and Mingzhi Jiao

Lithium-ion batteries have become one of the most competitive forms of energy storage media for electric vehicles, energy storage power stations, novel energy storage systems, and so on. The safety issues associated with batteries, including thermal runaway, thermal runaway propagation, aging degradation, fire, and explosion, have caused widespread concern. These issues have not been satisfactorily unveiled and resolved. To this end, this Special Issue presents a collection of innovative research focused on battery safety and fire. It highlights key advances in the fundamental science and key technologies for thermal safety and management with regard to battery-related fires and explosions, including mechanisms, modeling, characteristics, monitoring technologies, and control strategies. Therefore, this Reprint was crafted to update the scientific community on recent advancements and future focus points in battery safety and battery fires, offering valuable insights for improving battery safety and performance.

mdpi.com/books/reprint/12184