

Special Issue

Battery Prognostics and Health Management

Message from the Guest Editors

Batteries play a vital role in many fields, such as mobile devices, electric vehicles, and smart grids. The efficient PHM (Prognostics and Health Management) of batteries is crucial for maximizing their performance, lifespan, and safety. Artificial Intelligence (AI) technologies and some other new methods have shown great promise in advancing PHM by leveraging machine learning algorithms, data analytics, and predictive modeling. This Special Issue aims to explore the latest research and developments in this field, showing efficient SoC and SoH estimation, PHM methods that exhibit good performance such as high accuracy, high robustness, and good generalization, etc.

This Special Issue provides a platform to discuss novel algorithms, modeling techniques, experimental validations, and practical implementations related to PHM, and SoC and SoH estimation. Ultimately, the insights shared in this issue will contribute to enhancing the efficiency, durability, and sustainability of lithium-ion battery systems across various industries. Thus, we would like to encourage you to submit your original research articles and review articles to this Special Issue.

Guest Editors

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Deadline for manuscript submissions

closed (10 October 2024)



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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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