Special Issue

Advances in Battery Status Estimation and Prediction

Message from the Guest Editors

This Special Issue highlights research efforts towards advanced battery lifetime prediction methodologies and/or algorithm development studies, in terms of contributions (i.e., research/perspective/review articles). Methodologies and characterization techniques to predict battery aging from cell to pack level are needed. Authors are encouraged to submit original articles addressing including, but not limited to, the following topics:

- AI or data-driven battery life prediction;
- Battery aging and lifetime prediction models;
- Battery state of health estimation;
- Diagnosis and prognosis of battery systems;
- Lithium-ion batteries (cylindrical, prismatic, and pouch-type batteries);
- Lithium polymer;
- Nickel-metal hybrid batteries;
- Online battery life prediction;
- Physics-informed aging modeling;
- Remaining useful life prediction;
- Renewable energy-related technologies.

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Deadline for manuscript submissions

closed (18 January 2024)

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Message from the Editor-in-Chief

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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