

Special Issue

Advances in Modeling Methods for Battery Life Prediction and Performance Evaluation

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). Novel methodologies and characterization techniques to predict battery aging could also be included for battery diagnosis and prognosis from cell to pack level. Authors are encouraged to submit original articles addressing including, but not limited to, the following topics:

- Battery aging and lifetime prediction models;
- Battery state of health/power estimation;
- Remaining useful life prediction;
- Rest time based or accelerated aging investigation;
- Advanced algorithms for battery life prediction;
- Diagnosis and prognosis of battery systems;
- Physics-informed aging modeling;
- AI or data-driven battery life prediction.

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Deadline for manuscript submissions

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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