# Special Issue

# Advances in Modeling Methods for Battery Life Prediction and Performance Evaluation: 3rd Edition

## Message from the Guest Editor

Authors are encouraged to submit original articles that address, but are not limited to, the following topics:

- Battery state of X (SoC, SoH, SoE, SoP, SoS) estimation;
- Battery aging and lifetime prediction models;
- Early life and remaining useful life (RUL) prediction models;
- Degradation mechanism identification including 2nd life;
- Physical, digitalized, and accelerated aging studies;
- Advancement in the battery management system (BMS) for embedded models;
- Edge and cloud simulation and a combination of the models;
- Diagnosis and prognosis of battery systems including thermal aspects;
- Physics-based, AI, and hybrid modeling work for reliable prediction;
- Reliable service life and monitoring of batteries during 1st and 2nd life.

## Guest Editor

Prof. Dr. Md Sazzad Hosen

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## Deadline for manuscript submissions

closed (15 August 2025)

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# About the Journal

## Message from the Editor-in-Chief

*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.

## Editor-in-Chief

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