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Advances in Modeling Methods for Battery Life Prediction and Performance Evaluation

Guest Editors:

Dr. Md Sazzad Hosen
Battery Innovation Center (MOBI Research Group), Department of Electrical Engineering and Energy Technology, Vrije Universiteit Brussel, Pleinlaan 2, 1050 Brussels, Belgium

Dr. Theodoros Kalogiannis
Department of Electrical Engineering and Energy Technology, Vrije Universiteit Brussel, Pleinlaan 2, 1050 Brussels, Belgium

Deadline for manuscript submissions:
closed (15 March 2023)

Message from the Guest Editors

Dear Colleagues,

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.

Dr. Md Sazzad Hosen
Dr. Theodoros Kalogiannis
Guest Editors

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Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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