



*energies*



an Open Access Journal by MDPI

## Battery Aging and Life Prediction for Electric Vehicles, Energy Storage Systems and Portable Electronics

Guest Editor:

**Prof. Dr. Woojin Choi**

Department of Electrical  
Engineering, Soongsil University,  
Seoul 06978, Korea

Deadline for manuscript  
submissions:

**closed (10 August 2020)**

### Message from the Guest Editor

Dear Colleagues,

Battery aging and life prediction have become a challenge and research hotspot in many application areas, such as electric vehicles, energy storage systems and portable electronics. Hence, their degradation identification, state estimation, and prediction of remaining useful life have become a focus of attention to avoid its premature failure and improve system reliability. An advanced battery management system which can accurately monitor the battery degradation process and predict life is essential for the automated and optimized scheduling of the maintenance which, in turn, ensure the safe operation and extended life of batteries.

This Special Issue highlights research at the forefront of this field, inviting contributions addressing battery modeling and aging mechanism, anti-aging operation methodologies, life span and remaining useful life prediction, diagnosis and prognosis, accelerated life testing and data analysis, optimal battery management strategies, and application of artificial intelligence.



[mdpi.com/si/31070](https://mdpi.com/si/31070)

**Special** Issue



# energies



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Enrico Sciubba**

Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** CiteScore - Q1 (Control and Optimization)

## Contact Us

---

*Energies* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/energies](http://mdpi.com/journal/energies)  
[energies@mdpi.com](mailto:energies@mdpi.com)  
[X@energies\\_mdpi](https://twitter.com/energies_mdpi)