



energies



an Open Access Journal by MDPI

Advances in Battery Discharging and Charging Characteristics

Guest Editors:

Prof. Dr. Zijun Zhang

School of Data Science, City
University of Hong Kong,
Kowloon Tong, Hong Kong SAR,
China

Dr. Zicheng Fei

School of Data Science, City
University of Hong Kong,
Kowloon Tong, Hong Kong SAR,
China

Dr. Huan Long

School of Electrical Engineering,
Southeast University, Nanjing
210096, China

Deadline for manuscript
submissions:

25 September 2024

Message from the Guest Editors

Given the challenges of global climate change and environmental pollution, the shift toward a low-carbon society is now imperative. Batteries, as the primary energy storage solution for electrified transportation systems and renewable energy systems, play a pivotal role in advancing decarbonization efforts. However, as batteries undergo repetitive charging and discharging cycles, their electrochemical performance and energy storage capacity gradually degrade. Exploring the intricate dynamics of battery charging and discharging behaviors holds immense potential in enhancing battery health management and facilitating battery reliability.

This Special Issue aims to publish the latest research achievements in the analysis, design, and optimization of battery systems in terms of various charging and discharging characteristics. We invite researchers and industry experts to contribute their original research to this Special Issue, ensuring a comprehensive coverage of the aforementioned topics and providing valuable insights into the development of battery systems.



mdpi.com/si/200001

Special Issue



energies



an Open Access Journal by MDPI

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

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 (*Engineering (miscellaneous)*)

Contact Us

Energies Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://x.com/energies_mdpi)