



*energies*



an Open Access Journal by MDPI

## Modeling, Diagnosis and Protection for Li-Ion Battery Energy Storage System

Guest Editors:

**Prof. Dr. Bingxiang Sun**

**Dr. Liye Wang**

**Dr. Linfeng Zheng**

**Dr. Haijun Ruan**

**Dr. Dongsheng Ren**

Deadline for manuscript  
submissions:

**closed (31 October 2023)**

### Message from the Guest Editors

Dear Colleagues,

Lithium-ion batteries are often connected in series and parallel to formulate a lithium-ion battery system (pack) for meeting the high-voltage and high-capacity requirements of energy storage systems. It is particularly important to accurately model the behaviors, estimate the states, diagnose the degradation and faults of the battery energy storage system, and further take necessary measures to prevent any potential safety hazards. However, with an appreciable number of batteries available worldwide, it is challenging to capture the performance, monitor the states, and identify the faults of each battery.

This Special Issue expects to explore research innovation within the battery system engineering challenge that incorporates modeling, state estimation, diagnostics, prognostics, control engineering, system design, and safety engineering; thus, promoting the mass commercialization and popularity of the Li-ion battery energy storage system. Manuscripts from cross-disciplinary fields, theoretical and practical studies and novel methods are strongly encouraged and welcome.



[mdpi.com/si/119526](https://mdpi.com/si/119526)

# 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](http://www.mdpi.com)

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