



*energies*



an Open Access Journal by MDPI

## Electrochemical Energy Storage: Recent Advances in the Development of Li/Na Ion Batteries

Guest Editors:

**Prof. Dr. Takayuki Ichikawa**

Graduate School of Engineering,  
Hiroshima University, 1-4-1  
Kagamiyama, Higashi-Hiroshima  
739-8527, Japan

**Prof. Ankur Jain**

Graduate School of Engineering,  
Hiroshima University, 1-4-1  
Kagamiyama, Higashi-Hiroshima  
739-8527, Japan

**Dr. Rini Singh**

Graduate School of Engineering,  
Hiroshima University, 1-4-1  
Kagamiyama, Higashi-Hiroshima  
739-8527, Japan

Deadline for manuscript  
submissions:

**closed (20 February 2023)**

### Message from the Guest Editors

The use of fossil fuels causes many threats to human life, out of which global warming is the most serious one. The use of renewable energy may solve the issues originating from use of fossil fuels; however, their dependency on weather and location creates a bottleneck in universal adoption of them due to a mismatch between demand and supply. Storage devices are quite useful to fulfil the gap between demand and supply and recent developments in the field of Li-ion batteries render them frontline contenders. Due to limited stocks of Li on earth, an alternative is required, which has brought Na-ion batteries into picture. This Special Issue focuses on the rigorously peer-reviewed research articles, reviews, minireviews and perspective on the recent advancements in the field of electrochemical energy storage, conversion reactions, reaction mechanism of electrode materials, lithium and sodium ion batteries, etc. The submissions are not limited to the listed topics but can be based on other related fields as well.



[mdpi.com/si/86318](https://mdpi.com/si/86318)

**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 (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)