

# Special Issue

## Efficiency in Energy Storage

### Message from the Guest Editor

It is widely accepted that energy storage technologies will play a major role in future energy systems. The focus of many works in this field is mainly on energy density. However, if a huge share of the energy is dissipated during the storage process, the storage fails its task as a support to a future, renewable energy system. The Special Issue on “Efficiency in Energy Storage” will focus on works aiming at loss mechanisms and approaches to increase efficiency of energy storage technologies. Both theoretical and experimental studies on identification and prioritization are welcome, as they are an essential basis for the development of more efficient processes. Furthermore, works on optimization and implementation of new storage technologies with enhanced efficiency will be included. The purpose of this Special Issue is to give an overview and a closer examination of thermodynamics, exergy analytics, and energetic optimization of efficient energy storage technologies.

### Guest Editor

Dr. Karsten Müller

Helmholtz-Institute Erlangen-Nürnberg for Renewable Energies, 91058 Erlangen, Germany

### Deadline for manuscript submissions

closed (31 December 2020)



## Sustainability

an Open Access Journal  
by MDPI

Impact Factor 3.3  
CiteScore 6.8



[mdpi.com/si/45308](https://mdpi.com/si/45308)

*Sustainability*

MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)

[mdpi.com/journal/  
sustainability](https://mdpi.com/journal/sustainability)





## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 6.8



[mdpi.com/journal/  
sustainability](https://mdpi.com/journal/sustainability)



## About the Journal

### Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

---

### Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario  
Institute of Technology, Oshawa, ON L1G 0C5, Canada

---

### Author Benefits

#### Open Access:

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

#### High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, AGRIS, RePEc, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1  
(Geography, Planning and Development)