



energies



an Open Access Journal by MDPI

Advanced Battery Technologies for Energy Storage Devices

Guest Editor:

Prof. Dr. Young-Jun Kim
SKKU Advanced Institute of
Nanotechnology (SAINT) &
School of Advanced Materials
Sciences and Engineering,
SungKyunKwan University,
Jangan-gu, Suwon, Korea

Deadline for manuscript
submissions:
closed (30 November 2021)

Message from the Guest Editor

Dear Colleagues,

The energy storage system (ESS) is used to balance supply and demand on the electrical grid and is being recognized as a useful device for grids to support energy efficiency using load leveling as well as intermittent sources from wind power or solar power. Key to the current deployment of ESS is the development and economics of rechargeable batteries such as the lithium–ion battery, redox flow battery, and sodium–sulfur battery, et al. Therefore, this issue aims to contribute to the further development of ESS technology through recent scientific and engineering studies to improve the performance and economics of energy-storage devices focusing on rechargeable battery technologies. We therefore invite papers on advanced technical developments, new findings, reviews, case studies, as well as degradation and simulation studies on health of batteries.



mdpi.com/si/20761

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

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