



*energies*



an Open Access Journal by MDPI

## Electrochemical Energy Conversion and Storage Technologies 2018

Guest Editors:

**Prof. Dr. Hee-Je Kim**

Department of Electrical and  
Computer Engineering, Pusan  
National University, Busan 46241,  
Republic of Korea

**Dr. Huilin Pan**

Pacific Northwest National  
Laboratory, Richland, WA 99352,  
USA

Deadline for manuscript  
submissions:

**closed (30 September 2018)**

### Message from the Guest Editors

Dear Colleagues,

Energy storage technologies are highly desired for our modern lives. Electrochemical batteries are among of the most promising solutions due to their high flexibility, energy and power. The current state-of-the-art Li-ion batteries have been a great success in portable electronic devices, electronic vehicles and smart grids. However, the breakthroughs in low cost and high energy storage materials and new energy storage devices are still highly important to promote various applications for battery technologies. In addition, a deep understanding of the underlying reaction mechanisms using advanced in situ and ex situ characterizations are also of great importance for both fundamental and practical applications of energy storage technologies. This Special Issue calls for papers on topics related to electrochemical energy storage materials, chemistries, and electrocatalysis.

Prof. Dr. Hee-Je Kim

Dr. Huilin Pan

*Guest Editors*



[mdpi.com/si/13916](https://mdpi.com/si/13916)

# 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://twitter.com/energies_mdpi)