

Special Issue

Advanced Materials and Technologies for Lithium-Ion Battery

Message from the Guest Editors

With the advances in four key components (electrode materials, electrolyte and separator and binder) for lithium ion battery (LIB) technology, LIB has become the dominating choice of energy storage devices for mobile electronics, many electrified vehicles, energy storage system (ESS) and etc. LIB market is expected to grow faster and larger than ever before in near future in line with environmental-friendly economic growth worldwide. Hence, there is growing interests in enhancing the energy density, safety, life time and reliability of LIBs, which strongly requires innovative basic research and development for advanced materials and technologies. This Special Issue is focused on to bring together the innovative ideas and key material science for advanced LIB technology of future. Potential topics include, but are not limited to:

- Advanced anode and cathode materials; New electrolyte, binder and separator technologies; Full LIB cell design, engineering and diagnosis; Advanced electrochemical analysis and mechanism studies

Guest Editors

Prof. Dr. Jung Kyoo Lee

Department of Chemical Engineering, Dong-A University, Busan 49315, Korea

Prof. Dr. Eun-Suok Oh

School of Chemical Engineering, University of Ulsan, Ulsan 44610, Korea

Deadline for manuscript submissions

closed (25 June 2021)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/46393

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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





Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



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



About the Journal

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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

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)