



energies



an Open Access Journal by MDPI

Advances in Supercapacitor Technology and Applications

Guest Editors:

Dr. Alon Kuperman

Applied Energy Laboratory,
School of Electrical and
Computer Engineering, Ben-
Gurion University of the Negev,
Beer-Sheva 84105, Israel

Dr. Alessandro Lampasi

National Agency for New
Technologies, Energy and
Sustainable Economic
Development (ENEA), 00044
Frascati, Italy

Deadline for manuscript
submissions:

closed (31 January 2020)

Message from the Guest Editors

Energy storage is a key topic for research, industry and business, gaining more and more interest. Supercapacitors (also known as ultracapacitors, electrochemical capacitors or double-layer capacitors) feature exceptional capacitance values, creating new scenarios and opportunities in both research and industrial applications, also because the related market is relatively recent. Developments in supercapacitor technology and supporting electronics, combined with reductions in costs, may revolutionize everything from large power systems to consumer electronics. We are inviting submissions to this Special Issue of *Energies* to collect the latest developments and applications in this field, but also to compare supercapacitors with other energy storage solutions.

Keywords

- supercapacitors
- energy storage
- energy management
- power systems
- power electronics
- pulsed power
- high power testing and modeling
- fast control
- peak shaving
- electrical machines and drives
- electric and hybrid vehicles



mdpi.com/si/17691

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

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