

Special Issue

High Energy Electrochemical Capacitors

Message from the Guest Editor

With the increasing energy requirements of upcoming systems and associated concerns regarding the depletion of fossil fuels and their environmental-related effects on the planet, the deployment of renewable energy sources will play a key role in our future energy demands. Apart from batteries, accumulators, and fuel cells that are only effective for the storage and delivery of energy at slow rates over a long period of time, electrochemical capacitors have become imperative in the response to the short term fluctuations in energy outputs when a surge of energy in a short time is required or released. We are particularly interested in articles and reviews that explore aspects of novel electrode materials, electrolytes, and binders for electrochemical capacitors and their energy storage mechanisms and also processes and implementations in which the currently existing challenges associated with their synthesis and production are addressed. Moreover, performance analysis of the device and its integration with other storage technologies to improve the overall performance of energy systems are also of special interest.

Guest Editor

Prof. Dr. Mojtaba Mirzaeian

School of Computing, Engineering and Physical Sciences, University of the West of Scotland, Paisley PA1 2BE, UK

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

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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

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