Special Issue

Batteries and Energy Storage Device

Message from the Guest Editor

Dear Colleague, As renewable energy sources become increasingly prevalent, the need for high energy density, high-power storage devices with long cycle lives has become greater than ever. The development of suitable materials for these devices begins with a complete understanding of the complex processes that govern energy storage and conversion, spanning many orders of magnitude in length and time scales. The focus of this Special Issue is to present a collection that examines all aspects of batteries and electrochemical storage devices across multiple scales—from modeling and nanoscale characterization to full-scale battery construction and testing regimes. This Special Issue, therefore, seeks to contribute to the promotion of scientific and multidisciplinary knowledge regarding "Batteries and Energy Storage Devices" to improve their performance and deployment by bringing some focus to the shifting energy landscape in order to meet technical, socioeconomic, and environmental goals as well as for energy security.

Guest Editor

Dr. Claudia D'Urso
Institute for Advanced Energy Technologies (CNR-ITAE), Messina, Italy

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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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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

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