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State-of-the-Art Research in Advanced Materials for Energy Storage Applications

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Message from the Guest Editors

The need for the development of alternative energy conversion and storage systems has increased dramatically due to rapid global economic growth, environmental issues, and the depletion of fossil fuels. As two kinds of pollution-free clean energy, light and electricity have attracted increasing interest from the scientific community.

Advanced materials are of interest from the perspectives of both scientific research and mechanical manufacturing fields, especially for energy storage applications. Their suitability for such applications is attributed to their unique properties, such as their composition and large surface area, as well as their tunable porous structure, particle size, and surface chemistry. Depending on the methodology used for their synthesis, advanced materials will continue to play a critical role in dealing with global challenges.

The articles presented in this Special Issue will cover various topics, including, but not limited to, photoelectrocatalysis materials, solar cells, solar photoelectrocatalysis degradation, energy storage devices (batteries and electrochemical supercapacitors), and these materials' synthesis, properties, and applications.

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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.

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