Special Issue

Functional Materials for Advanced Energy Applications

Message from the Guest Editor

Functional materials play a crucial role in the transformation of energy, offering advanced solutions in the fields of energy generation, storage and conversion. This Special Issue welcomes scientists and industry experts to discuss the latest trends and technologies related to the application of functional materials in renewable energy. The scope of this Special Issue includes, but is not limited to, the following topics: new approaches to the application of functional materials in energy conversion systems; advanced materials for solar cells, hydrogen production and fuel cells; the application of functional materials in energy storage solutions (e.g., supercapacitors, batteries); the mechanisms of material degradation and their impact on long-term performance; and the development of sustainable and environmentally friendly materials that contribute to green energy goals. This Special Issue welcomes the submission of scientific articles, reviews and experimental studies that analyze innovative solutions and promote interdisciplinary connections between materials science and energy.

Guest Editor

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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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