Special Issue

Advanced Materials for Promising Renewable and Sustainable Energy Sources

Message from the Guest Editors

The modern era, with immediate global communication and the growth prospects of developing nations, poses energy challenges greater than ever seen before. Access to energy is crucial to the wealth, lifestyle, and self-image of every country. Driven by the fast depletion of fossil fuel resources and excessive carbon dioxide emission-induced global warming, research for clean and sustainable energy has seen explosive growth. Advanced materials for renewable and sustainable energy surveys the significant developments in the science and engineering of state-of-the-art materials for future energy. The key motive of this Special Issue is collecting knowledge regarding the development of materials that open new horizons for future energy. This issue invites review articles and original research papers that provide a broad overview of materials for photocatalysis, photovoltaics, solar energy conversion, piezoelectrics, thermoelectrics, fuel cells, supercapacitors, rechargeable batteries, and hydrogen production and storage.

Guest Editors

Dr. Akansha Mehta

Department of Glass processing, Alexander Dubček University of Trenčín Študentská 2, 911 50 Trenčín, Slovakia

Dr. Rayees Ahmad Rather

Shenzhen Key Laboratory of Special Functional Materials, Shenzhen University, Shenzhen 518060, China

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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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