Special Issue

Materials and Advanced Manufacturing for Sustainable Energy Applications

Message from the Guest Editors

Dear Colleagues Global requirements of energy are increasing and conventional methods of energy generation suffer from several limitations including climate change. Hence, there is a critical need for sustainable methods of energy generation. Such new methods of energy generation provide clean, renewable, and sustainable energy harnessing methods such as solar, wind, piezoelectric, and so on. Advances in materials science and nanomaterials, along with new methods of advanced manufacturing, provide unique opportunities to achieve energy efficiency through technologies such as solar cells, piezoelectrics, MEMS, NEMS, smart sensors, and so on. This Special Issue invites original research articles, short letters, and reviews in the field of energy efficiency achieved through multiple pathways, advanced manufacturing, micro- and nano-technology, semiconductors, sensors, and smart MEMS/NEMS devices. This Special Issue will supplement the existing literature by focusing on the recent developments and provide perspectives for the future.

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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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