Special Issue

Modeling and Utilization of Solar Energy and Biomass for Sustainable Development

Message from the Guest Editors

The reality of extreme events clearly demonstrates the need for a reduction in the emission of greenhouse gases (GHGs). These emissions derive mainly from the use of fossil fuels for transportation, use in industrial heat processes, and electricity production. Renewable energies can and already contribute decisively to the reduction in the use of fossil fuels in these three processes. Regarding the generation of PV electricity, it has been estimated that in 2050, 100% or a very high fraction of electricity production will become carbonfree. Regarding transportation and industry sectors. there are still many scientific, technical, and economic challenges to overcome so that renewable energies can contribute significantly to the decarbonization process. A possible roadmap for the decarbonization of these sectors consists of the implementation of electric efficiency, industrial electrification, use of low-carbon fuels, and CO2 sequestration. Within this context, we invite the submission of high-quality and innovative articles, focusing on the topics above, or related to similar topics.

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Deadline for manuscript submissions

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I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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