Special Issue

Application of Nanotechnology in Photovoltaic Systems

Message from the Guest Editors

The Photovoltaic Systems are facing new challenges and opportunities due to the development of new solar cells. Nowadays, heterojunction solar cell efficiency is higher than the homojunction solar cells. However, the fabrication price of homojunction solar cells is lower than heterojunction solar cells. Nanotechnology with new nanostructures is becoming increasingly sought out and their inclusion in homojunction solar cells can bring benefits, for example, shifting the maximum efficiency position from the visible wavelengths to the infrareds, or improving solar energy harvesting. This Special Issue invites original papers addressing the various topics relating nanotechnology materials and systems applied in Photovoltaic Systems. A wide variety of contributions is welcomed ranging from theoretical to simulation to experimental papers.

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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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