Special Issue

Advances in Concentrator Photovoltaics and Solar Cells

Message from the Guest Editor

CPV, especially high-concentration CPV, has always been associated with technology having the chance to be competitive with standard flat PV modules thanks to its unique potentiality to increase system efficiency due to multijunction solar cells, precisely manufactured optical components, and accurate tracking systems. Concentrating sunlight opens up the possibility of exploiting potentialities that PV flat modules cannot reach, and such research can leverage the developments of CPV technology to fit into a new generation of systems serving different purposes with respect to mere power generation. This mutated landscape has pushed research centers and companies operating in this field to rethink the purpose of CPV systems. This Special Issue focuses on the enabling technologies developed in the field of CPV and on their application in the present renewable energy landscape. We invite papers on recent technical developments of CPV devices, components, and systems, as well as reviews and case studies relevant to show the future direction of concentrating systems.

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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