

Special Issue

Solar Cells: Recent Advances, Perspectives and Applications

Message from the Guest Editors

Photovoltaics (PV) are expected to help create a clean energy society as they have the highest potential for energy sources. In order to enhance PV from 1 TW to more than 50 TW, further development of high-efficiency, low-cost, and highly reliable solar cells and the creation of new markets by developing integrated photovoltaics is needed. This Special Issue provides an overview and a perspective of various advanced solar cells and the potential of integrated photovoltaics.

Keywords:

- solar cells
- Si
- III-V
- II-VI
- chalcopyrite
- perovskite
- organic
- quantum effects
- concentrator PV
- space solar cells
- integrated photovoltaics
- agrivoltaics

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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