

Special Issue

Solar Energy and Photovoltaic Technologies, Materials and Their Applications

Message from the Guest Editor

Recently, all countries in the world have been facing a energy crisis problem such as the limited storage of fossil fuels and global warming due to carbon dioxide (CO₂) and other air pollutants collecting in the atmosphere. For solving the emerging energy crisis problem, many groups in the world have been searching for clean and eco-friendly energy sources. These energy sources include solar energy, wind, hydroelectric energy, biomass, geothermal heat, etc., and come from nature. These are called renewable energy sources. Among various renewable energies, solar energy comprises radiant light and heat from the Sun and unlimited energy. Solar light energy-based photovoltaic (PV) devices are considered the most likely candidates as a renewable energy source. Meanwhile, manufacturing processes, device structures, and materials are very important for the high performance of photovoltaic (PV) devices. This Special Issue will deal with state-of-the-art technologies and the latest research advances in the photovoltaic (PV) field, as well as energy-related research.

Guest Editor

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Deadline for manuscript submissions

30 May 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



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Message from the Editor-in-Chief

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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