

Special Issue

New Insights into Solar Cells and Their Applications

Message from the Guest Editors

Photovoltaics (PV) are expected to help create a clean-energy-driven society since they have the highest potential for energy sourcing. 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 is required, as well as the creation of new markets by developing integrated photovoltaics. This Special Issue provides an overview of knowledge regarding various advanced solar cells and the potential of integrated photovoltaics.

Guest Editors

Dr. Masafumi Yamaguchi

Semiconductor Laboratory, Toyota Technological Institute, Nagoya 468-8511, Japan

Prof. Dr. Kensuke Nishioka

Faculty of Engineering, University of Miyazaki, Miyazaki 889-2192, Japan

Deadline for manuscript submissions

closed (30 June 2025)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/226104

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

mdpi.com/journal/

appls





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)