Special Issue

Nanomaterials for Photovoltaics Application

Message from the Guest Editor

The main challenge in the solar power generation field, which is a sustainable energy, is to increase the competitiveness of solar energy by reducing costs and improving conversion efficiency to replace conventional fossil energy. Nanomaterials are one of the approaches for the development of inexpensive and efficient solar cells and are a promising technology for the development of future next-generation solar cells. This Special Issue of the journal *Applied Sciences* entitled "Nanomaterials for Photovoltaics Applications" will focus on contribution of nanomaterials in photovoltaics cell technology advancement. It aims to provide recent advances in the manufacture and fundamentals of nanomaterials for solar cells, including characterization techniques. It covers various types of nanomaterials for solar cells, i.e., nanoparticles, nanowire, nanorod and nanoporous materials, thin film, and more. All interested authors are invited to submit their newest results on nanomaterials and photovoltaic applications for possible publication in this Special Issue.

Guest Editor

Prof. Dr. Sung-Nam Kwon

Graduate School of Flexible and Printable Electronics, LANL-JBNU Engineering Institute-Korea, Jeonbuk National University, 567 Baekje-daero, Deokjin-gu, Jeonju-si 54896, Korea

Deadline for manuscript submissions

closed (30 September 2021)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 6.1

mdpi.com/si/62525

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 6.1

mdpi.com/journal/applsci

MDPI

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, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (Fluid Flow and Transfer Processes)