



Investigation and Design of Novel Materials for Photonic Applications

Guest Editors:

Prof. Dr. Davinson Mariano da Silva

Faculdade de Tecnologia de São Paulo, Departamento de Ensino Geral, 01124-060 São Paulo, SP, Brazil

Prof. Dr. Cid Bartolomeu de Araújo

Departamento de Física, Universidade Federal de Pernambuco, 50670-901 Recife, PE, Brazil

Prof. Dr. Luciana R. P. Kassab

Departamento de Ensino Geral, Faculdade de Tecnologia de São Paulo, São Paulo 01124-060, SP, Brazil

Deadline for manuscript submissions:

closed (20 June 2022)

Message from the Guest Editors

Dear Colleagues,

Materials research is crucial in the development of devices for applications in several areas where photonics is present, such as photovoltaics, displays, biophotonics, integrated optics, nonlinear optics, optical sensors, and communications.

In this Special Issue, we are interested in exploring materials science and technology research, focusing on photonic applications. Authors are encouraged to submit their works comprising the design, synthesis, fabrication, and/or characterization of novel materials for photonics. This may include lanthanide-doped materials, quantum dots, disordered materials for random lasers, nonlinear optical materials, plasmonics, nanocomposites, flexible substrates for photonics, photonic crystals, metamaterials, graphene and 2D materials, or others. The key aspect of this issue is to show the importance of materials development for the photonics research and industry.

We expect to attract contributions from world-leading experts in the area of materials research for photonics in an effort to offer an overview of the field, with a particular emphasis on major advances and outstanding challenges.





an Open Access Journal by MDPI

Editor-in-Chief

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

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.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)