Special Issue

Investigation and Design of Novel Materials for Photonic Applications

Message from the Guest Editors

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 reseach for photonics in an effort to offer an overview of the field, with a particular emphasis on major advances and outstanding challenges.

Guest Editors

Prof. Dr. Davinson Mariano da Silva

Prof. Dr. Cid Bartolomeu de Araújo

Prof. Dr. Luciana R. P. Kassab

Deadline for manuscript submissions

closed (20 June 2022)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/103072

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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.

Editor-in-Chief

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