Special Issue

Nonlinear Optical Research

Message from the Guest Editor

Symmetry plays a crucial role in nonlinear optics. Since second-harmonic generation was experimentally found in non-centrosymmetric crystals, nonlinear optical research has attracted a lot of attention in recent decades. It is known that the nonlinear optical response of materials is strongly dependent on their crystalline symmetries and crystal qualities. To benefit from recent advances in novel nonlinear optical materials and the associated state-of-the-art manufacture techniques, the field of nonlinear optical research has grown enormously in both theoretical and experimental aspects, such as nonlinear optical waveguides and nonlinear metasurfaces. This Special Issue will focus on recent advances in the field of nonlinear optics ranging from fundamental studies of nonlinear light–matter interactions to applications such as frequency conversion, optical switching, waveguides, micro-resonators, metasurfaces, micro- and nanostructures, electro-optics, etc.

Guest Editor

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Deadline for manuscript submissions

closed (10 April 2023)

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/90061

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About the Journal

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Editor-in-Chief

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