Special Issue

Symmetry and Liquid Crystal Optics

Message from the Guest Editors

In the last twenty years, liquid crystal (LC) has been widely used in industrial displays, replacing CRT. In addition, research on LC materials, LC optical devices and their practical applications has also attracted a lot of attention. For example, blue phase LCs, ferroelectric LC and nematic liquid crystal are investigated to improve their properties. Nematic LC was used to generate 3D solitary waves in nonlinear optics. LC could also be used to manipulate the flow of light in photonic microstructures, nano-optics and nanophotonics. Many novel opportunities need to be found on the basis of understanding LC molecular configuration and physical properties. This Special Issue of *Symmetry* features articles about LC optics with symmetry as the unifying theme. We are soliciting contributions that cover a broad range of topics, including the latest theory and experimental work on LC materials and their optical applications; dynamics of LC and polymer; the latest research on LC displays; LC polarization grating and its application; and symmetry and asymmetry in LC optics.

Guest Editors

Prof. Dr. Lifa Hu
School of Science, Jiangnan University, Wuxi 214122, China

Dr. Lishuang Yao
College of Science, Shantou University, Shantou 515063, China

Dr. Lingli Zhang
Heilongjiang Provincial Key Laboratory of In-fiber Integrated Optics, Ministry Education of China, Harbin Engineering University, Harbin, China

Deadline for manuscript submissions

closed (30 November 2023)

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/172771

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

mdpi.com/journal/symmetry

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/journal/symmetry

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

Prof. Dr. Sergei Odintsov
1. ICREA, 08010 Barcelona, Spain
2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

Author Benefits

Open Access:

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

High Visibility:

indexed within SCIE (Web of Science), Scopus, CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Multidisciplinary Sciences) / CiteScore - Q1 (General Mathematics)

MDPI