



Photonic Crystals and Their Applications

Guest Editors:

Prof. John Rarity

University of Bristol, Bristol,
United Kingdom

Dr. Mike Taverne

University of Bristol, Bristol,
United Kingdom

Dr. Ying-Lung Daniel Ho

Northumbria University,
Newcastle upon Tyne, United
Kingdom

Deadline for manuscript
submissions:

closed (31 March 2021)

Message from the Guest Editors

We invite researchers to contribute to the Special Issue on “Photonic Crystals and Their Applications”, which is intended to serve as a unique multidisciplinary forum covering broad aspects of the science, technology, and application of artificially structured photonic bandgap materials. The potential topics include, but are not limited to:

- Design and simulation of novel photonic structures and nanophotonic devices;
- Fabrication of novel photonic micro- and nanostructures;
- Characterization of photonic crystal structures by angle-resolved light scattering techniques and other advanced techniques;
- Exploitation of the remarkable properties of photonic bandgap materials in various emerging applications.

Keywords:

- photonic crystals
- quantum photonics
- waveguide
- optical resonance cavity
- cavity quantum electrodynamics
- direct laser writing
- two-photon lithography
- nanofabrication
- E-beam lithography
- focused ion beam milling
- interference lithography
- Fourier imaging spectroscopy





crystals



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alessandra Toncelli

Department of Physics, University of Pisa, 56126 Pisa, PI, Italy

Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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](#), [Ei Compendex](#), [CAPlus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (Crystallography) / CiteScore - Q2 (Condensed Matter Physics)

Contact Us

Crystals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/crystals
crystals@mdpi.com
[X@Crystals_MDPI](#)