Special Issue

Advances in Photonic Crystals and Devices

Message from the Guest Editors

The field of photonic crystals (PhCs) based on artificial nanostructures is a booming area of optics that has attracted much attention from experimental and theoretical researchers since its discovery in 1987 by John and Yablonovitch. In recent decades, more reliable and precise PhC devices are continuously being proposed because of new developments in advanced nanofabrication technology. Extensive applications based on PhCs have emerged, including PhC fibers, white light sources, tunable filters, PhC quantum dot lasers, and PhC quantum cascade lasers. However, most of the PhC devices have optical properties which cannot be actively tuned. Are there other cases for tunable photonic crystal devices? For instance, can we tune the optical properties of PhC devices through applied mechanical force, or through an external field? Answering these questions will help PhC devices meet the requirements of society. The present Special Issue on “Active Photonic Crystals and Devices” may become a timely report, summarizing the current progress in the field of tunable PhC devices achieved in recent years.

Guest Editors

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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.

Editor-in-Chief

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