Special Issue

New Insights into Photonic Crystal Fibers: From Fundamentals to Materials Performance

Message from the Guest Editor

Photonic crystal fibers (PCFs), which also are usually known in the scientific literature as microstructured or holey fibers, were first proposed and experimentally confirmed by researchers from the United Kingdom in 1991 as alternatives to conventional optical fibers. To confine light in the solid or hollow cores of PCFs, well-ordered air channels are fabricated in their cladding around the cores along entire PCF lengths. The developed PCFs, for example, allowed for new possibilities in optical communication and sensing technology. This year at OFC 2024 (Th4A.8) it was revealed that a special PCF with optical losses of

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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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