



Specialty Photonic Crystal Fibres and Their Applications

Guest Editors:

Dr. David Novoa

Max-Planck Institute for Science of Light, Erlangen, Germany

Prof. Dr. Nicolas Y. Joly

Max Planck Institute for the Science of Light, Staudtstraße 2, 91058 Erlangen, Germany

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Message from the Guest Editors

There has been a great interest in the design, fabrication, and application of specialty PCFs with unique properties far beyond the capabilities of standard fibres. For instance, the original dream of surpassing the performance of conventional fibres for telecommunications is now in sight for the first time due to the recent demonstration of broadband-guiding hollow-core PCFs capable of transporting high light intensities and photon energies with extraordinarily low attenuation close to that of commercial standard fibres. Other examples of these special developments include PCFs made of glasses other than fused silica to extend the range of applications either into the mid-infrared or the ultraviolet. Specialty PCFs have also paramount implications in real-world applications.

This Special Issue will give an overview of the state-of-the-art in PCF technology and its multiple applications, combined with an optimistic outlook to what lies ahead. Contributions will include original research papers on aspects related to specialty PCFs, as well as reviews of specific key topics of current relevance.





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Editor-in-Chief

Prof. Dr. Alessandra Toncelli

Department of Physics, University
of Pisa, 56126 Pisa, 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.

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Crystals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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