Special Issue

Advances in Optical Fibers, Devices and Applications

Message from the Guest Editors

Optical fiber technologies have achieved major advances in the last few decades, and have fundamentally reshaped the way we see, the way we sense, the way we communicate, and the way we live. They are especially well developed in the telecommunication industries and have great potential in new application fields such as sensing, lighting and industrial purposes. In addition to serving as transmission media, optical fibers have been used to realize several types of optical devices, namely optical amplifiers, broadband sources, optical sensors, and fiber lasers. The rapid progress in optical fiber technology can be attributed to the continuous research efforts on the development of improved optical fibers, new optical devices, and new applications. The aim of this Special Issue is to feature recent advances in the specialty optical fibers, optical fiber devices, and other applications, in terms of, but not limited to, fiber material and properties, design and fabrication, light localization structures, fiber surface functionalization through sensitive and/or transducing techniques, as well as fiber sensing systems.

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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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