# Special Issue

# Photonic Crystal Fibers: Design, Fabrication and Applications

## Message from the Guest Editor

The purpose of this Special Issue is to highlight active research dedicated to “Photonic Crystal Fibers” from their design and fabrication to their implementation in emerging applications. Indeed, the design of PCF is closely related to targeted applications by choosing appropriate materials and geometry. This photonic technology is still opening the door to new applications including the transmission of a specific spectral range (from the XUV to the mid-infrared and Terahertz) for a direct use of the fiber (passive configurations) but also for the conversion of light waves from a nonlinear or a laser-emission process (active configurations). Fibers technical topics include but are not limited to the following: - Design and fabrication fibers; - Laser developments, post-compression, amplifier with fibers; - Spectroscopy, imaging, endoscopy; - Linear and nonlinear photonics. These key fiber application topics will be discussed in both invited and contributed talks, providing comprehensive overviews of the current status and future directions as well as original results on research and recent developments in fibers and applications.

## Guest Editor

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## Deadline for manuscript submissions

closed (31 May 2022)

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You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

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