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Photonic Crystal Fibers: Design, Fabrication and Applications

Guest Editor:

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Deadline for manuscript submissions:
closed (31 May 2022)

Message from the Guest Editor

Dear Colleagues,

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.

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Message from the Editor-in-Chief

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