Special Issue

The Emerging Science in Microstructured Optical Fibers

Message from the Guest Editors

In this Special Issue, we expand our exploration of microstructured optical fibers (MOFs) to include breakthroughs across a spectrum from terahertz to optical frequencies. We encompass traditional and emerging areas, ensuring a balanced focus across diverse topics.

Our focus spans fiber lasers, stressing their diverse applications and innovations. We delve into nonlinear fiber optics, tackling both theoretical and practical hurdles, along with high-power fiber optics crucial for intense applications.

This Issue delves into MOF integration with semiconductor tech for fiber-to-chip systems. We also explore wearable fiber sensors and BMI fiber networks for health monitoring and neuroscience. Advanced fiber sensors' development and lab-on-fiber systems are highlighted, alongside optical neural networks, THz waveguide design, and mid-infrared hollow-core fibers for varied spectroscopic applications.

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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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