Special Issue

Novel Materials and Technologies for Fiber Lasers

Message from the Guest Editor

The present Special Issue is dedicated to recent advances in materials and technologies for fiber lasers. Topics of interest include but are not limited to the following areas:

- Optical fibers based on new perspective materials (including doped glasses, soft glasses, and highly nonlinear glasses) and advanced laser systems (CW and pulsed, including systems with nonlinear light conversion stages) based on such fibers in various wavelength ranges, including mid-IR;
- Photosensitive fibers, fiber Bragg gratings, and their applications in advanced fiber lasers;
- Novel fiber designs for power/energy scaling of laser systems, including photonic crystal fibers and multi-core fibers, novel nonlinear propagation regimes in multimode fibers, and advanced high-power fiber amplifier designs;
- Gas- and liquid-filled fibers and their applications in advanced fiber lasers;
- Novel 2D materials for fiber lasers, the integration of such materials with fibers, and the applications of such integrations in fiber lasers, including mode-locking and Q-switching.

Guest Editor

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Message from the Editor-in-Chief

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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