Special Issue

Advancements in Mode-Locked Lasers

Message from the Guest Editors

Mode-locked lasers are considered: innovative. efficient, and versatile equipment used in medical, industrial, and scientific areas. Passively mode-locking fiber lasers are simple, compact, and low-cost sources that have long been studied to produce a wide variety of optical pulses like conservative solitons and similaritons. dissipative solitons, noise-like pulses, or pulse bursts. These lasers allow the study of some less stationary regimes including the study of extraordinary optical events. In addition, due to the behavior already mentioned, the development of diverse applications in the fundamental mode locking operation has also been carried out: for instance, low-coherence spectral interferometry, materials processing, sensing, bioimaging, and supercontinuum generation. Topics of this Special Issue include, but are not limited to, the following:

- Mode-Locked lasers.
- Complex dynamics pulses.
- Laser dynamics.
- Supercontinuum generation.
- Laser sensors.
- Laser systems automation.
- Pulsed laser applications.

Articles, perspectives, and reviews are all welcome.

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About the Journal

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 peerreviewed 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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