

Special Issue

Novel Ultraviolet Laser: Generation, Properties and Applications

Message from the Guest Editors

Ultraviolet optical sources are the only means of providing some unique optical properties which are critical for the development of many emerging techniques. These novel techniques further promote the development of a wide range of applications in multiple disciplines. The aim of this Special Issue is to encourage researchers to report their latest achievements in the generation of novel ultraviolet laser sources or the exploration of new properties and the potential applications of these novel ultraviolet lasers. The scope of this Special Issue includes, but is not limited to, the following topics:

- Fourth to sixth harmonic generation for UV laser generation;
- UV laser-based micro and nanofabrication;
- Super resolution imaging and tomography using UV laser;
- Application of Ultraviolet Laser Working in Cold Ablation;
- Heat-affected zone minimization;
- Nano particle and graphene synthesis using UV laser;
- Nano-resolution additive manufacturing using UV polymerization;
- DUV disinfection and sterilization;
- UV spectroscopies for material characterization;
- UV breakdown spectroscopy for environmental monitoring;

Guest Editors

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Deadline for manuscript submissions

closed (15 January 2025)



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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 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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