Special Issue

Ultrafast Optics and Applications

Message from the Guest Editors

Ultrafast optics is among the most important areas of optics and deals with ultrafast phenomena, i.e., phenomena which occur at the shortest time scales known in science, ranging from picoseconds to femtoseconds to attoseconds. Ultrafast optics describes the process by which light interacts with matter. This Special Issue, entitled “Ultrafast Optics and Applications”, will welcome basic, methodological and applied cutting-edge research contributions, as regular and review papers, addressing:

- Efficient methods for the generation of high-order harmonic, attosecond pulse and attosecond pulse spectroscopy;
- Advanced technology of mode-locked laser for high peak power and ultrashort pulses;
- High-energy, short-pulse laser systems in the deep ultraviolet (or extreme deep ultraviolet) and mid-infrared bands;
- The development of ultrafast imaging and technology for coherent X-ray diffraction imaging;
- Advanced industrial laser sources to manufacture and process different materials;
- Ultrafast optical technologies and methods for communication devices, sensors, medical aesthetic tools, etc.

Guest Editors

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Deadline for manuscript submissions

closed (20 August 2024)

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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.

Editor-in-Chief

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