Special Issue

Ultrafast Spectroscopy: Fundamentals and Applications

Message from the Guest Editor

Ultra-fast optical spectroscopy comprises a set of experimental techniques that use ultrashort light pulses (with durations from femto to attoseconds) to study dynamic processes in atoms, molecules, biological systems and nanostructures. This Special Issue is dedicated to ultrafast spectroscopy, both its fundamental aspects and in its applications. As regards the fundamental aspects, we want to give space to works dedicated to the advancement of ultrafast spectroscopic techniques ranging from the THz to the X-ray spectral range, and new types of pulsed sources. Concerning the applications of ultrafast spectroscopy, this Special Issue will give space to works that address the study of photophysical and photochemical processes at the molecular level in organic molecules, biological chromophores and light harvesting systems; to the study of the structural dynamics of molecular systems in their electronic ground state; to the study of ultrafast structural dynamics, mapped by time-resolved X-ray methods and electron diffraction.

Guest Editor

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Deadline for manuscript submissions

closed (10 January 2023)

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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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