



## Ultrafast Optics and Applications

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### 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.

