Special Issue

Photon-based Particle Acceleration and Manipulation

Message from the Guest Editors

This Special Issue focuses on the most recent advances in the field of photonic sources and techniques for particle acceleration and manipulation. Topics include but are not limited to the following:

- The development of compact, direct laser accelerators;
- Advanced ultrahigh peak and average power laser systems for wakefield acceleration and X-ray/gamma-ray production;
- Particle production and manipulation using photonic sources;
- Dielectric and on-chip accelerator techniques, including metamaterial photonic circuit development;
- Research of novel techniques to confine light with elemental spatio-temporal resolution;
- Optical timing distribution;
- Applications of photon-based accelerators.

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Deadline for manuscript submissions

closed (30 June 2020)

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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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