Special Issue

Recent Advances in Free Electron Laser Accelerators

Message from the Guest Editors

This Special Issue aims to showcase the latest advancements in the theoretical models, experimental results, and practical applications of FEL accelerators. All theoretical, numerical, and experimental papers are accepted. Topics include, but are not limited to, the following:

- Novel acceleration techniques for FELs;
- Advanced beam diagnostics for FEL accelerators;
- High-gradient structures and advanced acceleration schemes;
- Plasma-based free electron lasers;
- Cryogenic technologies and superconducting accelerators for FELs;
- Ultrafast FEL sources for time-resolved experiments;
- Next-generation FEL concepts and technologies;
- High-power and high-energy FEL accelerators;
- Beam dynamics and control in FEL accelerators;
- FEL technology for particle acceleration and collider applications;
- Applications of FEL accelerators in scientific research, industrial processing, and medical imaging.

Guest Editors

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Deadline for manuscript submissions

closed (20 July 2024)

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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.

Editor-in-Chief

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