

Special Issue

Optical Amplifiers: Progress, Challenges, and Future Prospects

Message from the Guest Editors

With the increasing demand for high-speed internet, the technology enabling the high data capacity has become extremely important since the Covid-19 pandemic when we require more internet data usage than ever. Optical fiber communications have been the key technology which supports the high-speed transmission of information all over the world, and the optical amplifier is the backbone to enable a steady and rapid growth over the years. Our special issue aims for the collection of papers using novel optical amplifiers including doped-fiber amplifier, semiconductor optical amplifier (SOA), Raman amplifier, parametric amplifier and so forth.

Particularly, we encourage the submissions regarding the optimization and application of optical amplifiers in optical coherent communication systems. Both contributed articles and review papers are welcome in the special issue.

- optical amplifier
- coherent communications
- nonlinearity compensation
- Raman amplification

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2022)



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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.

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