Special Issue

New Trend in Nanophotonics

Message from the Guest Editors

This Special Issue aims to study new nonlinear optical materials with quadratic or cubic nonlinearity at wideband transmission in the infrared range, and the new effects of nonlinear optical conversion into longer wavelengths of the near-, mid- and even far-infrared range in such media. Both well-known oxide nonlinear crystals (with a transparency up to 5 microns) and promising phosphide, selenide, and sulphide non-oxide crystals with high second order nonlinearity and transparency in the widest spectral range, which are visible up to the mid- and far-IR range, can be used for quadratic nonlinear down-conversion. Another promising research direction is cubically nonlinear conversion. Original research articles and reviews are welcome in this Special Issue. Research areas may include (but are not limited to) the following:

- Nonlinear and ultrafast optics;
- Down-conversion in nonlinear media;
- Optical parametric generation, amplification, and oscillation;
- Supercontinuum generation;
- Raman lasers;
- Semiconductor nonlinear photonics;
- Nonlinear materials and technology;
- Nonlinear optical devices and technologies.

Guest Editors

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Deadline for manuscript submissions

closed (15 September 2023)

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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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