Special Issue

Editorial Board Members' Collection Series: Nonlinear Photonics

Message from the Guest Editors

The field of nonlinear guided optics in optical fibers or waveguides is a field of intense investigations, intimately connected to the realization of optical fibers and waveguides with specific properties. This Special Issue aims to review the current state of the art and present perspectives of further development. Submissions on fundamental and applicative aspects of the field will be considered. Topics include, but are not limited to, the following:

- Fundamental nonlinear processes
  - nonlinear optics with singular beams
  - optical soliton physics
  - nonlinear pulse propagation in optical fibers
  - ultrafast nonlinear optics

- Nonlinear materials and structures
  - optical nonlinearities in nanocavities and nanostructures
  - optical nonlinearities in poled and high dielectric constant materials
  - nonlinear optical effects in semiconductors and 2D materials.

- Nonlinear optical devices, systems and applications
  - all-optical photonic devices
  - parametric oscillators and amplifiers, parametric sources of quantum light
  - nonlinear photonic crystal and metamaterial devices
  - nonlinear dynamics in rare-earth-doped single-mode fiber lasers

Guest Editors

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Deadline for manuscript submissions

closed (30 March 2025)

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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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