



Editorial Board Members' Collection Series: Nonlinear Photonics

Guest Editors:

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Deadline for manuscript
submissions:

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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

