# Special Issue

# Recent Advances in the Study of Light Propagation in Optical Fibers

## Message from the Guest Editors

Guided-light propagation in optical fibers have been the focus of intense research efforts that range from studying optical communications to sensing and imaging. This Special Issue is intended for a multidisciplinary audience and will present some of the most recent advances and novel approaches applied in the design, fabrication, and application of optical fibers, generation of light beams, and guided-light propagation. Original contributions and reviews on any topic related to optical fibers and light propagation, whether theoretical/numerical or experimental, are all welcome. Topics of interest include but are not limited to the following areas: - Beam generation and propagation in optical fibers - Optical coherence and partially coherent beam propagation - Nonlinear optical processes inside optical fibers (including stimulated Raman scattering, stimulated Brillouin scattering, four-wave mixing, and supercontinuum generation) - Novel optical communication systems - Novel optical fibers including photonic crystal fibers - Fiber optic sensors - Medical applications of guided light in optical fibers

### **Guest Editors**

Dr. Yashar Esfahani Monfared

Faculty of Science, Dalhousie University, Halifax, NS B3L2B6, Canada

Dr. Chunhao Liang

Shandong Provincial Engineering and Technical Center of Light Manipulations, School of Physics and Electronics, Shandong Normal University, Jinan 250014, China

## Deadline for manuscript submissions

closed (28 December 2020)



# **Photonics**

an Open Access Journal by MDPI

Impact Factor 1.9 CiteScore 3.5



mdpi.com/si/48116

Photonics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
photonics@mdpi.com

mdpi.com/journal/photonics





## **Photonics**

an Open Access Journal by MDPI

Impact Factor 1.9 CiteScore 3.5



## 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 peerreviewed 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**

Prof. Dr. Nelson Tansu

School of Electrical and Electronic Engineering (EEE), The University of Adelaide, Adelaide, SA 5005, Australia

### **Author Benefits**

## **High Visibility:**

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

## Journal Rank:

CiteScore - Q2 (Instrumentation)

## **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.8 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).

