Special Issue

Research and Applications of Optical Fibers

Message from the Guest Editor

Optical fibers are defined as lightweight, flexible mechanisms with a transparent core and cladding layer, used for guiding light signals over long distances with minimal loss in quality. Since its first invention by K. C. Kao in the 1960s, it is widely used in many areas, including optical communication, optical sensing, fiber laser, nonlinear optics, etc. Recently, a substantial amount of research has been conducted in the field of optical fibers and their application, such as passive and active fiber manufacturing, fiber transmittance, fiber laser amplification, etc. As a scientific basic material, the research and development of optical fibers and their application involve multidisciplinary work, encompassing a wide range of disciplines such as optics, materials science, electronics, etc. This Special Issue aims to publish selected contributions on the advances in the research and applications of optical fibers.

Guest Editor

Dr. Kang Ying
Shanghai Institute of Optics and Fine Mechanics (SIOM), Chinese Academy of Sciences (CAS), Shanghai 201800, China

Deadline for manuscript submissions

closed (30 September 2025)

hv

Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/si/229507

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

mdpi.com/journal/photonics

MDPI

Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/journal/photonics

MDPI

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.

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).