Special Issue

The State-of-the-Art in Optical Fiber Research

Message from the Guest Editors

The aim of this Special Issue is to highlight the latest developments and trends in state-of-the-art optical fibre research (technical, numerical, and methodological) through the collection of articles covering recent improvements in, but not limited to, the following areas of interest:

- Basic and fundamental theory of optical fibre and optical fibre-based systems in long-haul, medium-haul, and short-haul communications;
- The design, fabrication, and application of special fibres (e.g., photonic crystal fibre (PCF), microstructured fibre);
- Optical fibre (bio/chemical/physical) sensing devices (fibre Bragg gratings (FBG) and PCF-based surface plasmonic resonance (SPR));
- Optical fibre devices/systems for high-speed 5G and 6G Internet communication and networks;
- Optical fibre laser, sources, and amplifiers;
- Nonlinear fibre optics.

Contributions from all areas of research involving optical fibre are welcome. We are pleased to invite you to participate by submitting original research papers, communications, and review articles to provide broad insight into recent developments and the future outlook in this Special Issue.

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

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