



## Optical Fiber Communication: Challenges and Opportunities

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Deadline for manuscript  
submissions:

**closed (10 December 2025)**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue, entitled “Optical Fiber Communication: Challenges and Opportunities”, is dedicated to showcasing the latest explorations and advancements in this research field. We are pleased to invite you to submit your latest research findings to this Special Issue, which welcomes both original research articles and reviews. Topics of interest include, but are not limited to, the following:

- Fiber–optic communications;
- Digital and optical signal processing for optical fiber communications;
- Devices and components for optical fiber communications;
- Subsystems for optical transmission;
- Hybrid fiber/free-space optical communications;
- Optical channel models and characteristics;
- Optical networks;
- 5G/6G fronthaul;
- Passive optical networks;
- Wavelength-division multiplexing techniques;
- Space-division multiplexing techniques;
- Cost- and energy-saving techniques;
- Physical layer security in optical networks;
- Integrated sensing and communication in optical fibers.

We look forward to receiving your contributions.





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## Editor-in-Chief

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## Message from the Editor-in-Chief

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