

Call for Papers
IEEE Photonics Journal Two Special Issues
Asia Communications and Photonics Conference (ACP 2025)

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Scope and Topics

These two special issues welcome authors to submit enhanced journal articles derived from exceptional papers presented at ACP 2025. Submitted manuscripts should include significant new contributions, such as additional experiments, novel theoretical insights, simulation work, or comprehensive analyses. Areas of focus cover, but are not restricted to:

Special Issue 1: Optical Transmission Systems

This issue will focus on advancements in high-speed and high-capacity optical communication:

- High-capacity, high-speed optical communication systems
- Coherent detection, advanced modulation formats, and digital signal processing algorithms
- Optical transmission systems with advanced fiber and/or specialty fibers
- Transmission system optimization, nonlinearity compensation, and monitoring techniques
- Optical networking, switching, and routing for high-capacity networks
- Future optical access networks including fixed and mobile applications

Special Issue 2: Optoelectronic and Fiber-Based Devices

This issue will cover the latest developments in components and integrated photonics:

- High-speed optical sources (lasers, LEDs, VCSELs, comb) and photodetectors (PIN, APD, UTC-PD)
- Optical modulators, optical amplifiers, high-speed transceivers, and optical sensors
- Integrated photonic devices and photonic integration (SiPh, III-Vs, LNOI, HI etc.)
- Optical fiber-based devices including fiber lasers, fiber amplifiers, specialty fiber components, mode-locked fiber lasers, and fiber sensors etc.
- Emerging technologies including VLC, free-space optical links, quantum photonics, neuromorphic photonics, and AI-enabled optical devices.

Submission Guidelines

Submissions will be reviewed in accordance with the normal procedures of the Journal and papers must be formatted according to the Information for Authors found at:

<https://ieeephotonics.org/publications/photonics-journal/>. Select the appropriate paper type:

- “Special Issue on Optical Transmission Systems: ACP 2025 Highlights”
- “Special Issue on Optoelectronic and Fiber-Based Devices: ACP 2025 Highlights”
- Select the technical topic “06 Focus Issue”.

Important Dates

Open for Submissions: November 25, 2025

Submission Deadline: February 8, 2026

Tentative Publication: Spring 2026

EARLY ACCESS: *DOI-citable articles will be published online after acceptance upon submission of final files and rights selection – sometimes well in advance of issue publication.*

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