



Liquid Crystals Optics and Photonic Devices II (PE129)

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The strong electro-optic, magneto-optic, and thermo-optic effects of liquid crystals, combined with the maturity of LCD technology, make this group of functional materials excellent candidates for next-generation tunable optics and photonic devices. Furthermore, their unique properties make them good candidates for sustainable applications.

The conference is meant to gather the community working on related topics, and papers from the following list are welcome:

- light propagation and interaction with liquid crystals
- tunable liquid crystal lenses and applications
- liquid crystal tunable spectral filters and applications
- polarization control devices and integration with systems
- liquid crystal smart windows and energy devices
- theoretical modeling of liquid crystal materials and devices
- faster modes of liquid crystal devices
- liquid crystal metamaterials
- tunable resonant liquid crystal devices
- liquid crystal spatial light modulators and applications
- liquid crystal lasers
- nonlinear optics of liquid crystals
- liquid crystal elastomeric devices
- novel applications of liquid crystals.

Present your research

Below are abstract submission instructions, the accompanying submission agreement, conference presentation guidelines, and guidelines for publishing in the Proceedings of SPIE on the SPIE Digital Library. Submissions subject to chair approval.

Important dates

Abstracts due	12 November 2025
Registration opens	January 2026
Authors notified and programme posts online	12 January 2026
Submission system opens for manuscripts and poster PDFs*	9 February 2026
Poster PDFs due for spie.org preview and publication	18 March 2026
Manuscripts due	25 March 2026

*Registration is required for attendance and publication

What you will need to submit

- Presentation title
- Author(s) information
- Speaker biography (1000-character max including spaces)
- Abstract for technical review (200-300 words; text only)
- Summary of abstract for display in the program (50-150 words; text only)
- Keywords used in search for your paper (optional)
- Check the individual conference call for papers for additional requirements (i.e., special abstract requirements or instructions for award competitions)

Note: Only original material should be submitted. Commercial papers, papers with no new research/development content, and papers with proprietary restrictions will not be accepted for presentation.

How to submit your abstract

- Visit the conference page: www.spie.org/pe129
- You may submit more than one abstract, but submit each abstract only once
- Submit by clicking the "Submit an Abstract" button on the conference page
- Sign in to your SPIE account, or create an account if you do not already have one
- Follow the steps in the submission wizard until the submission process is completed
- If your submission is related to an application track below, indicate the appropriate track when prompted during the submission process

Application tracks

An application track is a grouping of presentations on a topic of interest across all conferences. During submission of the abstract, the submitting author should select an application track if it is relevant to their research. Learn more.

- **Sustainability:** Papers that feature solutions to achieving net zero energy consumption, waste, and carbon emissions within optics and photonics.
- **AI/ML:** Papers that showcase the use of artificial intelligence, machine learning, and deep learning to create and implement intelligent systems
- **EU-funded research programme:** Papers presenting research supported by current EU-funded programmes, initiatives, and innovation projects.

Contact information

Submission agreement

All presenting authors, including keynote, invited, oral, and poster presenters, agree to the following by submitting an abstract:

- Register and pay the conference registration fee
- Agree to receive email messaging for the conference series
- Oral presenters: agree to recording and publication of your onsite presentation (slides synched with voice) in the Proceedings of SPIE in the SPIE Digital Library
- Poster presenters: one person may not present more than two posters in a poster session; submit a poster PDF for preview in the online programme (web and app) and for publication in the Proceedings of SPIE in the SPIE Digital Library
- Submit a manuscript by the advertised due date for publication in the Proceedings of SPIE in the SPIE Digital Library
- Obtain funding for registration fees, travel, and accommodations
- Attend the meeting
- Present at the scheduled time

Student presenters under 18 years of age

In addition to the submission agreement above, the following requirements apply to student presenters who will be under 18 years of age on the first day of the event they are attending:

- Students aged 17 or younger must be actively affiliated with a recognized academic institution
- Students must have their abstract proposal approved by a faculty advisor or mentor before submission; this advisor or mentor must also be listed as a co-author on both the abstract and the final manuscript submitted for publication in the Proceedings of SPIE
- If a submission is accepted for presentation, the presenter's parent or guardian must complete and submit the Parental/Guardian Consent Form within one month of the acceptance notification
- All presenters under age 18 must be accompanied to the event by a faculty advisor, parent, or guardian

Review and programme placement

- To ensure a high-quality conference, all submissions will be assessed by the conference chair/editor for technical merit and suitability of content
- Conference chairs/editors and/or SPIE staff reserve the right to reject for presentation any paper that does not meet content or presentation expectations
- Final placement in an oral or poster session is subject to chair discretion

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