



## Metamaterials XIV (PE101)

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The metamaterials revolution was initiated some two decades ago, and the field has advanced rapidly, offering flexible control over many wave phenomena, which natural materials cannot provide, and new solutions for all kinds of applications using light. Artificial material designs present a wealth of previously unimaginable functionalities. Ideas map beautifully onto other areas like acoustics. New concepts and applications continue to emerge, and commercialization opportunities are becoming apparent. This conference will bring together the global community of interdisciplinary researchers working in this exciting and multi-faceted field. A broad family of metamaterials and metasurfaces will be presented, emphasizing the dramatic interactions of advanced, artificial sub-wavelength structures with electromagnetic radiation, together with their many applications. The conference programme will feature keynote, invited, oral and poster presentations on topics including, but not limited to:

- tuneable, switchable, reconfigurable and programmable metamaterials and metasurfaces
- nonlinear metamaterials and metasurfaces
- metamaterials with extreme and near-zero parameters
- new material platforms and manufacturing methods for metamaterials
- chiral, bianisotropic and hyperbolic metamaterials
- generating and harvesting light
- sub-wavelength concentration of light, and imaging
- fundamental concepts and numerical modelling
- photonic metamaterial and metasurface devices
- metamaterials for sensing and metrology
- quantum, topological and space-time phenomena
- artificial intelligence in metamaterial design and applications
- metamaterials for manipulating complex beams and polarization
- metamaterials for sustainability and net-zero
- industrial applications and commercialization of metamaterials.

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### Present your research at SPIE Photonics Europe

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	30 November 2023
Authors notified and programme posts online	25 January 2024
Registration opens	8 January 2024
Submission system opens for manuscripts and poster videos/PDFs*	5 February 2024
Manuscripts due	20 March 2024

\*Contact author or speaker must register prior to uploading

#### 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 programme (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. extended abstract PDF upload for review 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/pe101call](http://www.spie.org/pe101call)
- 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

#### Submission agreement

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

- Register and pay the author registration fee
- Oral presenters: recording and publication of your onsite presentation (slides synched with voice) for publication in the Proceedings of SPIE in the SPIE Digital Library
- Poster presenters: submit a poster PDF by the advertised due dates for publication in the Proceedings of SPIE in the SPIE Digital Library; poster PDFs may also be published and viewable in the spie.org programme during and immediately after the event. Each poster must have a unique presenter; one person may not present more than one poster
- Email messaging for the conference series
- 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

#### 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 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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