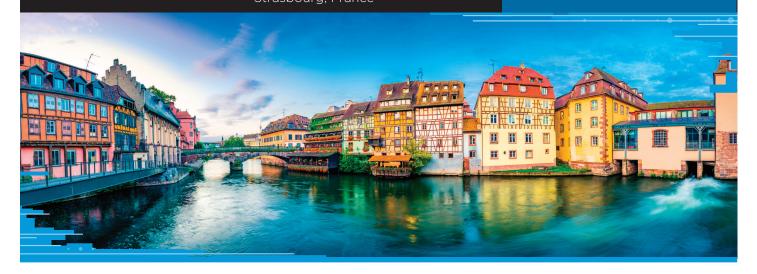
# **CALL FOR PAPERS**

SPIE PHOTONICS EUROPE

Conferences: 7-11 April 2024 Exhibition: 9-10 April 2024

Palais de la Musique et des Congrès Strasbourg, France Submit abstracts by **30 November 2023** 



# Metamaterials XIV (PE101)

Conference Chairs: Kevin F. MacDonald, Univ. of Southampton (United Kingdom); Isabelle Staude, Friedrich-Schiller-Univ. Jena (Germany); Anatoly V. Zayats, King's College London (United Kingdom)

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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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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

<sup>\*</sup>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.

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  poster
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- · Obtain funding for registration fees, travel, and accommodations
- · Attend the meeting
- Present at the scheduled time

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  and suitability of content
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- Final placement in an oral or poster session is subject to chair discretion

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