



Photosensitive Materials and their Applications II (PE123)

Conference Chairs: **Robert R. McLeod**, Univ. of Colorado Boulder (United States); **Inmaculada Pascual Villalobos**, Univ. de Alicante (Spain); **Yasuo Tomita**, Univ. of Electro-Communications (Japan); **John T. Sheridan**, Univ. College Dublin (Ireland)

Programme Committee: **Andrea Bianco**, Istituto Nazionale di Astrofisica (Italy); **Augusto Beléndez**, Univ. de Alicante (Spain); **Hans I. Bjelkhagen**, Glyndwr Univ. (United Kingdom); **Friedrich-Karl Bruder**, Covestro AG (Germany); **Ivan B. Divliansky**, CREOL, The College of Optics and Photonics, Univ. of Central Florida (United States); **Antonio Fimia Gil**, Univ. Miguel Hernández (Spain); **Martin Fally**, Univ. Wien (Austria); **Sergi Gallego Rico**, Univ. de Alicante (Spain); **Jinxin Guo**, Beijing Univ. of Technology (China); **Yuan Luo**, National Taiwan Univ. (Taiwan); **Christian Ley**, Univ. de Haute Alsace (France); **Izabela Naydenova**, Dublin Institute of Technology (Ireland); **Nikolay V. Nikonorov**, ITMO Univ. (Russian Federation); **Sergey B. Odinkov**, Bauman Moscow State Technical Univ. (Russian Federation); **Tina Sabel**, Technische Univ. Berlin (Germany); **Oksana V. Sakhno**, Fraunhofer-Institut für Angewandte Polymerforschung IAP (Germany); **Takeo Sasaki**, Tokyo Univ. of Science (Japan); **Kalaichelvi Saravanamuttu**, McMaster Univ. (Canada); **Amy C. Sullivan**, Univ. of Colorado Boulder (United States); **Xiaodi Tan**, Fujian Normal Univ. (China)

This conference provides a forum for those interested in the development, understanding, application and commercialization of photosensitive materials and their optical applications. The objective is to provide an interdisciplinary meeting in which optical engineers and physicists can interact constructively with both material scientists and chemists and those involved in the application and commercial use of such materials. Those attending will have the opportunity to hear talks from leading researchers in the field, presenting their state-of-the-art research in the context of providing solutions to real world problems.

Photosensitive materials typically exhibit a chemical, electrical, or other response to light. Interacting with electromagnetic radiation their exposed regions attain properties that are distinctively different from those of non-exposed regions. Thus, exposure results in temporary or permanent changes to their solid-state, molecular and/or inter-facial properties leading to a controllable modulation of material properties such as refractive index or conductivity, thickness, density, photo-conductivity, photo-luminescence, photon energy conversion, or photo-catalysis. Such changes can then be used to modulate the amplitude, phases, polarization and spin characteristics of replaying light and matter fields.

Topics will include but not be limited to:

- material characterization, testing and modelling
- impacts of materials on device and system modelling and optical performance
- chalcogenide and phase change materials for use in data storage and photonics applications
- nanocomposite, micro/nano-structured and low dimensional materials for photonics applications
- photorefractive materials for photonics/sensing applications
- photosensitizers and dyes
- photopolymers, azo polymer, photochromic materials, liquid crystals, thermo-plastics, resins and photo-thermo-refractive glasses for holographic/memory/lithographic applications and optical components/devices
- novel and emerging materials, such as meta-structured, Epsilon-Near-Zero and plasmonic materials for photonics applications

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	15 November 2021
SPIE sends author notification to contact author	12 January 2022
Registration opens	January 2022
Manuscripts due	9 March 2022

*Authors must register prior to uploading their manuscript.

What you will need to submit

- Title
- Author(s) information
- 500-word abstract for technical review
- 300-word summary for the program
- Keywords used in search for your paper (optional)
- Check the individual conference Call for Papers for additional requirements (for example, some conferences require 2- to 3-page extended summary for technical review, or have 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/pe123call
- You may submit more than one abstract but submit each abstract only once.
- Click 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.

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: Submit a presentation video by the advertised due date, or agree to the presentation capture of your presentation on site, for online conference viewing during the event and publication in the Proceedings of SPIE on the SPIE Digital Library.
- Poster Presenters: Submit a Poster PDF and optional preview video by the advertised due date, for online conference viewing during the event and publication in the Proceedings of SPIE on the SPIE Digital Library.
- Submit a 4-page-minimum manuscript by the advertised due date, for online conference viewing during the event and publication in the Proceedings of SPIE on the SPIE Digital Library.
- Obtain funding for registration fees, travel, and accommodations, independent of SPIE, through their sponsoring organizations
- Ensure that all clearances, including government and company clearance, have been obtained to present and publish. If you are a DoD contractor in the USA, allow at least 60 days for clearance.
- Attend the meeting.
- Present at the scheduled time.

Review and program 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 Chairs discretion.

Publication of Proceedings in the SPIE Digital Library

- SPIE will publish all presentations for viewing during the conference, as well as permanently archive all presentations in the conference proceedings on the SPIE Digital Library.
- SPIE retains rights to distribute and market the official SPIE recording of the presentation, presentation video, and/or poster.
- Most SPIE conferences follow an onsite publication model, meaning that manuscripts received by the advertised due date will be published for online viewing during the event, as well as archived in the SPIE Digital Library.
- A select few of SPIE conferences may elect to follow a Post-Meeting model of publication in order to conduct a more thorough review of manuscripts. In this model, manuscripts will be published 2-4 weeks after the event in the SPIE Digital Library, and may not be published for online viewing during the event.
- Authors must be authorized to transfer copyright of the manuscript to SPIE, or provide a suitable publication license. Authors retain the right to prepare derivative publications based on the paper.
- Conference chairs/editors may require manuscript revision before approving publication and reserve the right to reject for publication any paper that does not meet acceptable standards for a scientific publication.
- Conference chair/editor decisions on whether to allow publication of a manuscript are final.
- Only papers, presentations, and posters presented at the conference and received according to publication guidelines and due dates will be published in the conference Proceedings of SPIE on the SPIE Digital Library.
- SPIE partners with relevant scientific databases to enable researchers to find the papers in the Proceedings of SPIE easily. The databases that abstract and index these papers include Astrophysical Data System (ADS), Ei Compendex, CrossRef, Google Scholar, Inspec, Scopus, and Web of Science.
- More publication information available on the [SPIE Digital Library](http://SPIEDigitalLibrary.org).

SYMPOSIUM CHAIRS



Francis Berghmans
Vrije Universiteit
Brussel (Belgium)



Thierry Georges
Oxxius (France)



Paul Montgomery
Univ. of Strasbourg
(France)

SPIE. DIGITAL LIBRARY

SPIE WILL PUBLISH YOUR RESEARCH GLOBALLY

www.SPIEDigitalLibrary.org

Your work will live far beyond the conference room—all proceedings from this meeting will be published in the SPIE Digital Library. Promote yourself, your ideas, and your organization to millions of key researchers from around the world through this web-based repository of the latest technical information.

Contact information

QUESTIONS?

AuthorHelp@SPIE.org