



# GCLOP2023

## Scientific Program

### Global Congress on **Lasers, Optics and Photonics**

*August 10-12, 2023 | London, UK*

Venue :

Renaissance London Heathrow Hotel,  
Bath Road, Hounslow, England,  
United Kingdom, TW6 2AQ

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## Conference Day -1, Thursday, August 10, 2023

08:45-09:00		<b>Registrations</b>
09:00-09:10		<b>Introduction and Opening Ceremony</b>
		<b>Plenary Talks</b>
09:10-09:45	P	<b>Title:</b> Discover Functional Photonic Structures via Machine Learning <b>Wenshan Cai</b> , <i>Georgia Institute of Technology, USA</i>
09:45-10:20	P	<b>Title:</b> Towards Large-Scale and Integrated Functional Metasurfaces <b>Xingjie Ni</b> , <i>The Pennsylvania State University, USA</i>
10:20-10:55	P	<b>Title:</b> Parametric Wavelength Conversion between Infrared and Terahertz wave <b>Shin'ichiro Hayashi</b> , <i>National Institute of Information and Communications Technology, Tokyo, Japan</i>
10:55-11:10		<b>Coffee Break</b>
		<b>Keynote Talks</b>
11:10-11:40	K	<b>Title:</b> Monolithic Integration of Silicon-on-Insulator & Silica-on-Silicon Waveguides via CMOS Compatible Fabrication <b>DeGui Sun</b> , <i>Changchun University of Science and Technology, China</i>
11:40-12:10	K	<b>Title:</b> Enlarge KGW Crystal abilities towards the NIR spectral range in Raman Lasers <b>Salman Noach</b> , <i>Jerusalem College of Technology, Israel</i>
12:10-12:40	K	<b>Title:</b> Polaritonics: New Geometries and New Materials <b>Ivan A. Shelykh</b> , <i>University of Iceland, Iceland</i>
12:40-12:45		<b>Group Photo</b>
12:45-13:25		<b>Lunch and Networking</b>
13:25-13:55	K	<b>Title:</b> Towards 800G/1.6T Data Center Interconnects Based on Low Chirp Electro-Absorption Modulated Laser <b>Xin Chen</b> , <i>Ipswich Research Center, Huawei, UK</i>
13:55-14:25	K	<b>Title:</b> Sterically Hindered Diarylethenes with Benzobis(thiadizole) Bridge: Enantiospecific Transformation and Reversible Photo-Superstructures <b>Wei-Hong Zhu</b> , <i>East China University of Science and Technology, China</i>
		<b>Invited Talks</b>
14:25-14:45	I	<b>Title:</b> Optics – New Requirements in Smart Laser Processing <b>Wojciech Suder</b> , <i>Cranfield University, UK</i>
14:45-15:05	I	<b>Title:</b> The Role of Lasers in Aerospace Sustainability <b>Kady Gregersen</b> , <i>Boeing Research &amp; Technology, USA</i>
15:05-15:20		<b>Refreshment Break</b>

15:20-15:40	I	<b>Title:</b> Ultra-Broadband Wavelength-Swept Crystalline Fiber Lasers <b>Sheng-Lung Huang</b> , <i>National Taiwan University, Taiwan</i>
15:40-16:00	I	<b>Title:</b> Unlocking the Full Potential of Telecom Fiber Networks with Distributed Fiber Optic Sensing <b>Yangmin Ding</b> , <i>NEC Laboratories America, Inc, USA</i>
16:00-16:20	I	<b>Title:</b> Draw-Tower Fiber-Optic Grating Array and its Applications <b>Minghong Yang</b> , <i>Wuhan University of Technology, China</i>
16:20-16:40	I	<b>Title:</b> Thermally Evaporated High Quality Thin Films to Achieve Amplified Spontaneous Emission in All CsPb(Br <sub>1-x</sub> Y <sub>x</sub> ) <sub>3</sub> (Y = I, Cl) Perovskites <b>Abdullah S. Aldwayyan</b> , <i>King Saud University, Saudi Arabia</i>
16:40-17:00	I	<b>Title:</b> Low Dimension Bi <sub>2</sub> O <sub>2</sub> Se based Photodetector <b>Chen Chao</b> , <i>University of Electronic Science and Technology of China</i>
17:00-17:20	I	<b>Title:</b> Advances of Laser and Fiber Optic Sensors for Industrial Applications <b>Tongyu Liu</b> , <i>Shandong Micro-sensor Photonics Ltd, China</i>
17:20-17:40	PO	<b>Title:</b> Investigating Optical Properties of Gold Nearly Percolated Thin Films <b>Elizabeth Hedl</b> , <i>Ruder Bošković Institute, Croatia</i>

## End of Conference

## Day-2 Virtual Conference, Friday, August 11, 2023 @ Time Zone in Paris, France (GMT+2)

09:30-10:05	P	<b>Title:</b> Ring-Core Optical Fiber for OAM-based Communications <b>Yang Yue</b> , <i>Xian Jiaotong University, China</i>
10:05-10:30	I	<b>Title:</b> All-Optical Control of the Photonic Hall Lattice in a Pumped Waveguide Array <b>Shirong Lin</b> , <i>Great Bay University, China</i>
10:30-10:55	I	<b>Title:</b> 2D Materials for Saturable Absorbers in Pulsed Lasers <b>Jinbo Pang</b> , <i>University of Jinan, China</i>
10:55-11:20	I	<b>Title:</b> Structural Health Monitoring Using Fiber Sensor <b>Prasant Kumar Sahu</b> , <i>IIT Bhubaneswar, India</i>
11:20-11:45	I	<b>Title:</b> Research Progress of Space Laser Communication Networking Technology <b>Zhi Liu</b> , <i>Changchun University of Science and Technology, China</i>
11:45-12:10	I	<b>Title:</b> Optical Phase Change Nanocavity with Dynamic Structural Color <b>Hong Liu</b> , <i>Agency for Science, Technology and Research (A*STAR), Singapore</i>

12:10-12:35	I	<b>Title:</b> Magnetic-Free Quantum Nonreciprocity <b>Keyu Xia</b> , <i>Nanjing Univeristy, China</i>
12:35-13:00	I	<b>Title:</b> Encoded SERS Nanotag ---- New Information and Biomedicine Nanomaterial <b>Xiangwei Zhao</b> , <i>Southeast University, China</i>
13:00-13:30	K	<b>Title:</b> Lasers in Live Cell Microscopy <b>Herbert Schneckenburger</b> , <i>University of Ulm, Germany</i>
13:30-13:55	I	<b>Title:</b> Regenerative Retinal Laser and Light Therapies for the Treatment of Retinal Diseases - a possible way to save sight? <b>Jan Tode</b> , <i>Hannover Medical School, Germany</i>
13:55-14:20	I	<b>Title:</b> Integrated Photonic Systems for Ultrafast and Low Power Optical Data Processing <b>Raktim Sarma</b> , <i>Yale University, USA</i>
14:20-14:50	K	<b>Title:</b> Optical Intelligent Reflecting Surfaces for Visible Light Communication <b>Zhu Han</b> , <i>University of Houston, USA</i>
14:50-15:15	I	<b>Title:</b> Optical Imaging and Microvessels In-Vitro and In-Vivo <b>Aristotle G. Koutsiaris</b> , <i>University of Thessaly, Greece</i>
<b>End of Virtual Presentations</b>		

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2<sup>nd</sup> Global Congress on Lasers, Optics and Photonics

May 28-30, 2024 | Munich, Germany

<https://avouchconferences.com/2024/laser-optics-photonics/>