

Crowne Plaza Nice - Grand Arenas Rue Costes et Bellonte, Nice, 06200 France

SCIENTIFIC PROGRAM

JOINT CONFERENCE

2nd International Congress and Expo on

Optics, Photonics and Lasers &

2nd International Congress and Expo on

Materials Science & Nanoscience
June 13-14, 2024 | Nice, France

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| Conference Day-1 | | |
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| | TI | nursday, JUNE 13th, 2024 |
| 08:30-09:00 | Registrations | |
| 09:00-09:15 | Opening Ceremony | Conference Chair: Dieter Bimberg, Founding Director "Center of NanoPhotonics", TU Berlin, Germany |
| 09:30-10:05 | Plenary Speaker | Dieter Bimberg, Executive Director "Bimberg Chinese-German Center For Green Photonics", CIOMP, CAS, China |
| | Title | Green Data Communication: Intelligent Physics And Engineering Will Contribute To A Sustainable Society |
| 10:05-10:40 | Plenary Speaker | Roel Baets, Ghent University, Belgium |
| | Title | Silicon Photonics, today and tomorrow |
| 10:40-11:15 | Plenary Speaker | Volker Sorger, University Of Florida, USA |
| | Title | Optoelectronic Devices for Al Chips |
| 11:15-11:30 | | Coffee Break |
| 11:30-12:05 | Plenary Speaker | Arseniy Kuznetsov, Institute Of Materials Research And Engineering, A*STAR, Singapore |
| | Title | Metaoptics and nanoantenna spatial light modulators |
| 12:05-12:40 | Plenary Speaker | Shigemasa Suga, SANKEN, Osaka University, Japan |
| | Title | Frontiers of 3D photoelectron momentum microscopy (PMM) and Soft X-ray resonant inelastic scattering (SX-RIXS) down to sub micrometer scale |
| 12:40-13:15 | Plenary Speaker | Wei Li, Lab Director Of GPL Photonics Laboratory, CIOMP, China |
| | Title | Dispersion-assisted high-dimensional photodetection |
| 13:15-14:00 | | Lunch and Networking |
| 14:00-14:35 | Diamana Charles | Alexander Lvovsky, University Of Oxford, UK |
| 14:00-14:55 | Plenary Speaker | Alexander Lvovsky, Ornversity Or Oxiord, OK |
| 14.00-14.33 | Title | Optics And Neural Networks: A Natural Symbiosis |
| 14:35-15:10 | Title | • |
| | Title | Optics And Neural Networks: A Natural Symbiosis |
| | Title Plenary Speaker | Optics And Neural Networks: A Natural Symbiosis Iam Choon Khoo, The Pennsylvania State University, USA Chiral soft-matter photonic crystals for advanced reconfigurable |
| 14:35-15:10 | Title Plenary Speaker Title | Optics And Neural Networks: A Natural Symbiosis Iam Choon Khoo, The Pennsylvania State University, USA Chiral soft-matter photonic crystals for advanced reconfigurable photonic applications Yeshaiahu (Shaya) Fainman, University Of California Dan Diego, |
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| 17:30-17:55 | Keynote Speaker | Katia Gallo, KTH Royal Institute Of Technology, Sweden |
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| | Title | Ferroelectric photonic devices in lithium niobate and tantalate |
| 17:55-18:20 | Keynote Speaker | Caiming Sun, IRIM, The Chinese University Of Hong Kong (CUHK), China |
| | Title | Broadband Integrated Optical Phased Arrays for Optical Wireless Communication |
| | | End of Day-1 Conference |
| | | Conference Day-2 |
| | | Friday, JUNE 14, 2024 |
| | | Meeting Room -1 |
| 09:00-09:25 | Keynote Speaker | Andrew Wing On Poon, Hong Kong Univ of Science And Technology, Hong Kong |
| | Title | Integrated Quantum Light Sources in Silicon Photonic Platforms |
| 09:25-09:50 | Keynote Speaker | Kam Sing Wong, Hong Kong Univ of Science And Technology, Hong Kong |
| | Title | Bound States In The Continuum: From Photoluminescence To Second Harmonic Enhancement |
| 09:50-10:15 | Keynote Speaker | Muhammad Nadeem Akram, University Of South-Eastern Norway, Norway |
| | Title | Fourier-ptychographic microscopy: achievements and applications |
| 10:15-10:40 | Keynote Speaker | Salman Noach, Jerusalem College of Technology , Israel |
| | Title | High energy Tm based/ KGW SWIR Raman laser |
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| 10:40-10:55 | | Coffee Break |
| 10:40-10:55 | | Session 1: Photonics |
| 10:40-10:55 | Invited Speaker | |
| | Invited Speaker Title | Session 1: Photonics Binhao Wang, Xi'an Institute of Optics and Precision Mechanics, |
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| 11:00-11:20 | Title | Session 1: Photonics Binhao Wang, Xi'an Institute of Optics and Precision Mechanics, CAS, China High-Speed Silicon Photonic DWDM Transceivers Ottavia Jedrkiewicz, Institute for Photonics and Nanotechnologies |
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| SCIENTIFIC | PROGRAM | JOINT CONFERENCE |
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| 14:00-14:20 | Invited Speaker | Mikhail Portnoi, University of Exeter, UK |
| | Title | Terahertz photonics of carbon-based nanostructures |
| 14:20-14:40 | Invited Speaker | Koichi Takiguchi, Ritsumeikan University, Japan |
| | Title | Spectrally efficient THz-wave communication using optical- domain or direct THz-domain reception signal processing |
| 14:40-15:00 | Invited Speaker | Anhui Liang, Ningbo Micro-color Optical Communication Limited, China |
| | Title | Optimal Form of Uncertainty Principle and Their Applications |
| 15:00-15:20 | Invited Speaker | Virgilijus Vaičaitis, Vilnius University Laser Research Center, Lithuania |
| | Title | Generation of broadband terahertz radiation in laser-created air plasma and its applications |
| 15:20-15:40 | Invited Speaker | Vasileios E. Lembessis, King Saud University, Saudi Arabia |
| | Title | Spin-to-orbit conversion mechanism in optical vortices creating miniature atom traps |
| 15:40-16:00 | Invited Speaker | Ulrich Jentschura, Missouri S&T University, USA |
| | Title | Dirac-Volkov Propagator: When Matter Perturbs Light and Relativistic Perturbation Theory is Not Enough |
| 16:00-16:15 | | Coffee Break |
| 16:15-16:35 | Invited Speaker | Ambali Alade Odebowale, The University of New South Wales, Australia |
| | Title | Machine Learning Assisted Selective Emitter Design for Solar Thermophotovoltaic System |
| 16:35-16:55 | Invited Speaker | Sanjida Akter, The University of New South Wales, Australia |
| | Title | High Responsivity of Zirconium boride/Chromium Alloy heterostructure for deep and near UV photodetector |
| 16:55-17:15 | Invited Speaker | Rand Ismaeel, University of Southampton, UK |
| | Title | Photonics sensors for Ocean Monitoring |
| 17:15-17:35 | Invited Speaker | Yang Liu, Donghua University, China |
| | Title | To be Confirmed |
| | | Friday, JUNE 14, 2024 |
| | | Meeting Room -2 |
| | | Session 2: Optics |
| 11:00-11:20 | Invited Speaker | Theodore Goodson III, University of Michigan, USA |
| | Title | Nonlinear Optical and Time-Resolved Properties of Novel Organic Materials |
| 11:20-11:40 | Invited Speaker | Yosuke Aragane, Head of IOWN Development Office, NTT |
| | Title | Innovative Optical and Wireless Network (IOWN) for the next generation communication and computing infrastructure |
| 11:40-12:00 | Invited Speaker | Belén Ferrer , University of Alicante, Spain |
| | Title | Concrete as image texture target for movement measurement with subpixel precision |
| 12:00-12:20 | Invited Speaker | Dingchen Wang, The University of Hong Kong (HKU), Hong Kong |
| | Title | Stretchable Optical Memristor Design, Fabrication, and Characterization |

| SCIENTIFIC | PROGRAM | JOINT CONFERENCE |
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| 12:20-12:40 | Invited Speaker | Yingwen Zhang, University of Ottawa, Canada |
| | Title | Utilization of multi-dimensional quantum entanglement in sensing and imaging |
| 12:40-13:00 | Invited Speaker | Cherrie Lee, KTH Royal Institute Of Technology, Sweden |
| | Title | Engineering Coercive Fields via Ion-Exchange for Periodic Poling of RKTP |
| 13:00-13:40 | | Lunch and Networking |
| 13:40-14:00 | Invited Speaker | Yoichi Ogata, Department of Research and Development, Choi- Ogas Platform |
| | Title | Double aerial images assisted-ejection device |
| 14:00-14:20 | Invited Speaker | Angelo Angelini, Italian National Institute of Metrological Research (INRiM) , Italy |
| | Title | High-Q Fano resonances in all-dielectric metasurfaces |
| 14:20-14:40 | Invited Speaker | Rohit K Ramakrishnan, Centre for High Energy Physics, Indian Institute of Science, India |
| | Title | The Quantum Internet: A Photonic Approach |
| 14:40-15:00 | Invited Speaker | I-Jan Chen, Soutport co. Ltd., Taiwan |
| | Title | Potential and opportunities of software defined optics in optical inspection and metrology |
| 15:00-15:20 | Invited Speaker | Ioannis Roudas, Montana State University, USA |
| | Title | From Stokes to Mode Vector Modulation: Multidimensional Constellations and Polarimetric Detection for Energy Efficiency |
| | | Session 3: Lasers |
| 15:20-15:40 | Invited Speaker | Jun-Ho Choi, Gwangju Institute of Science and Technology, South Korea |
| | Title | Computational Spectroscopy and Molecular Aggregation in Aqueous Solutions |
| 15:40-16:00 | Invited Speaker | Daiki Okazaki, Institute for Chemical Research, Kyoto University, Japan |
| | Title | Cr:ZnS mid-infrared mode-locked laser with carbon nanotube films |
| 16:00-16:15 | | Coffee Break |
| 16:15-16:35 | Invited Speaker | Mark Lee, University of Texas at Dallas, USA |
| | Title | Millimeter Wave Spectroscopy of Materials for the 6G Telecomm Spectrum |
| 16:35-16:55 | Invited Speaker | SuHui Yang , Beijing Institute of Technology, China |
| | Title | Suppression of Scattering Clutters in an Underwater lidar system |
| 16:55-17:15 | Invited Speaker | Zuoye LIU, Lanzhou University, China |
| | Title | The spectral reshaping of XUV pulse in macroscopic systems |
| 17:15-17:35 | Invited Speaker | Boris Barmashenko, Ben-Gurion University of the Negev, Israel |
| | Title | Diode pumped alkali lasers (DPALs): High power gas lasers using hybrid technology |
| 17:35-17:55 | Invited Speaker | Sergio Pellegrino, Laserpoint srl, Italy |
| | Title | Fast Broadband Optical Energy Laser Meters: State of the Art |
| 17:55-18:15 | Invited Speaker | Andri Abdurrochman, Universitas Padjadjaran, Indonesia |
| | Title | A Review on the Research Paths of Photonic Jet Etching and Microsphere Assisted Microscopy |

Meeting Room -3 Coffee Break

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| | | Session 1: Materials |
| 11:00-11:30 | Keynote Speaker | Julia W.P. Hsu, University of Texas at Dallas, USA |
| | Title | Room-temperature Fabrication of Flexible Transparent Conducting Electrodes for Perovskite Solar Cells Using Light |
| 11:30-12:00 | Keynote Speaker | Douglas H Werner, The Pennsylvania State University, USA |
| | Title | Multi-Objective Inverse-Design Tools for Optical Metadevices |
| 12:00-12:25 | Invited Speaker | Cosimo Carfagna, CRdC Tecnologie Scarl, Italy |
| | Title | Mediterranean Diet and Polymer Technology |
| 12:25-12:50 | Invited Speaker | Ramon Alberto Paredes Camacho, National University of Singapore Chongqing Research Institute |
| | Title | Effective Doping Engineering Of Na3V2(PO4)2F3 As A High- Performance Cathode Material For Sodium-Ion Batteries |
| 12:50-13:30 | | Lunch and Networking |
| 13:30-13:55 | Invited Speaker | Alexandros Sarantopoulos, Peter Grünberg Institute, Germany |
| | Title | Tailored ionic and thermal properties in memristive device |
| 13:55-14:20 | Invited Speaker | Zeno Gaburro, University of Trento, Italy |
| | Title | Teaching generalized refraction with Kadidak startup |
| 14:20-14:45 | Invited Speaker | Tkach Olena, Johannes Gutenberg University of Mainz, Germany |
| | Title | Investigation of the Electronic Structure of Materials using Photoelectron Momentum Microscopy |
| 14:45-15:10 | Invited Speaker | Hartmut Yersin, University of Regensburg, Germany |
| | Title | Thermally activated delayed fluorescence (TADF) of OLED emitters. Photophysics and design of breakthrough materials |
| 15:10-15:35 | Invited Speaker | Yuya Yamaguchi, National Institute of Information and Communications Technology, Japan |
| | Title | High-Speed Lithium Niobate Modulators for Optical Fiber and Radio-Over-Fiber Links |
| 15:35-16:00 | Invited Speaker | Mark S. Goorsky, University of California, Los Angeles, United States |
| | Title | Advances in Materials Integration for Photonic Structures |
| 16:00-16:15 | | Coffee Break |
| 16:15-16:40 | Invited Speaker | Wen Lee, A*STAR, Singapore |
| | Title | Development of Photonic Interposer for HPC Presentation |
| 16:40-17:05 | Invited Speaker | Lisa John, Homi Bhabha National Institute, India |
| | Title | Phase Pure PdCoO2 from Molten chlorides: Synthesis and characterization |
| 17:05-17:25 | Invited Speaker | Galestan Mackertich, The Pennsylvania State University, USA |
| | Title | Future Advancements in Additively Manufactured Compliant Mechanisms for Electromagnetic and Optical Applications |
| | | Poster Presentations |
| PST-1 | Poster Presenter | David Mas, University of Alicante, Spain |
| | Title | Experimental limits for subpixel movement detection |

SCIENTIFIC PROGRAM

JOINT CONFERENCE

| PST-2 | Poster Presenter | Sang-Chul Jung, Sunchon National University, South Korea |
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| | Title | Preparation of nano-sized PrFeO3-based perovskite complex and their assessment of hydrogen generation by liquid phase plasma method |
| PST-3 | Poster Presenter | Nikolay Solodovchenko , ITMO University, Russia |
| | Title | Quadruplets of photonic resonances in non-Hermitian dielectric objects |
| PST-4 | Poster Presenter | Anna Ermina, loffe Institute, Russia |
| | Title | SERS Substrate based on Ag Endotaxial Nanopyramids and Silicon |
| PST-5 | Poster Presenter | Jong-Hyun Lee, Seoul National University of Science and Technology, South Korea |
| | Title | Sinter-bondability improvement of Ag-coated Cu particles through self-heating of sheet formulation |