15th LIGHT CONFERENCE

LIGHT CONFERENCE 2026

Northeast Asia International Conference Center

JUNE 11-15, 2026 **CHANGCHUN · CHINA**

Hosts

International Day of Light Organizing Committee, UNESCO

European Optical Society

International Commission for Optics

IEEE Photonics Society

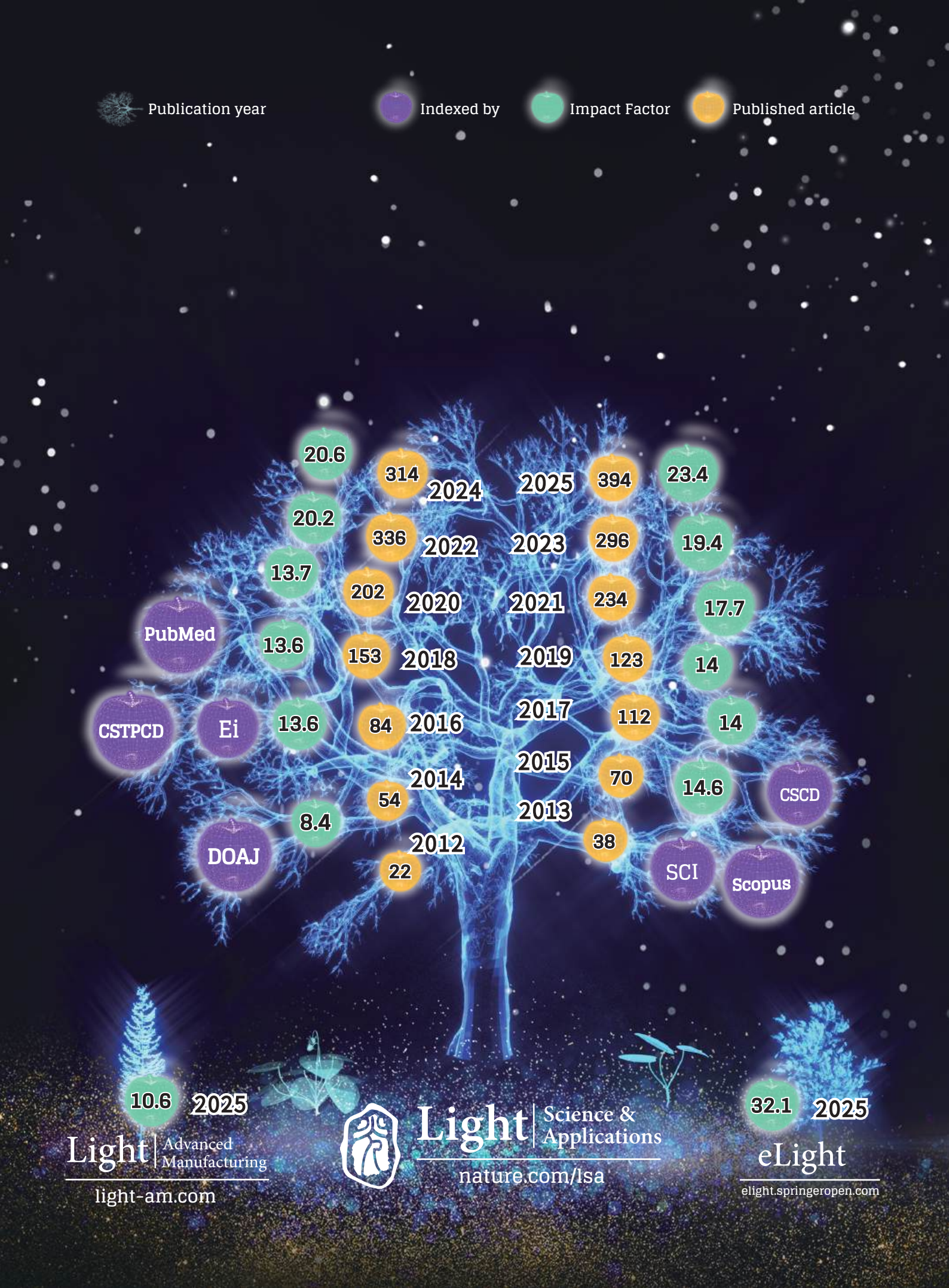
The Chinese Optical Society

China Science Daily

Organizers

Light Publishing Group | ScienceNet | iCANX

THE 15TH Northeast Asia International Conference Center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General Information

Conference Venue: Northeast Asia International Conference Center, Changchun (长春东北亚国际会议中心)
Address: Xingbo Road, Chaoyang District, Changchun, Jilin, China（吉林省长春市朝阳区兴博路）

Speaker Preparation

For all speakers, please arrive at the session room 30 min before your talk for uploading and checking the PPT. The presentation language is English for Main Conference and Track 1-10, Chinese for Light Doctoral Academic League. No shows of the oral presentation will be recorded and these papers will not be published.

Poster Preparation

Authors are required to stand by their poster during the poster session for discussion. Please make sure to print your mobile tel. and email in the poster, because the conference staff will contact the winner of Best Poster Award, which will be selected on site.
Poster session: Friday, Jun. 12, 10:20-12:00
Poster board size: 0.95 m (length) * 2.47 m (height), recommended poster size:0.8m*1.2m
Location: 2F Changbai Hall Corridor (Conference Center)

Closing Ceremony and Award Ceremony

Location: 1F Huashan Hall, Conference Center (会议中心一楼华山厅)
The Closing Ceremony will be held on Sunday, Jun. 14, 15:30-18:00
The following awards will be present at the Closing Ceremony:

Best Paper Award

The candidates will be selected from all contributed submissions, according to the review outcomes. The selection will be voted by all session chairs and technical program chairs.

Best Poster Award

The winners will be selected by reviewers on site during the poster session.

WIFI: Light Password: LightConference

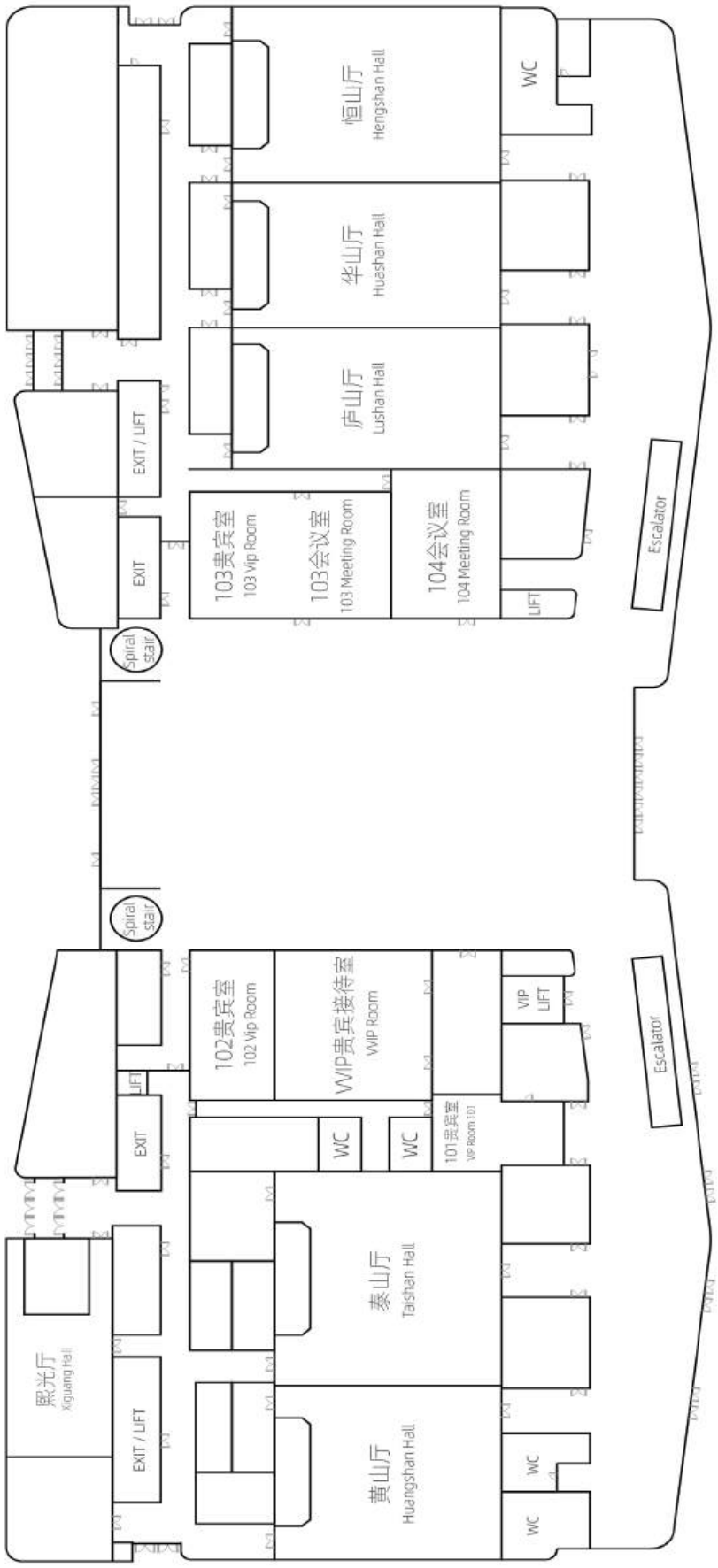
Light Moment

Precious photos on the conference can be found in Light moment, you can scan the right code to view and download them.
Light Moment Link:
https://m.alltuu.com/album/8ffa0809cee4dc8b63398e8d1ff66f27/?menu=live

Tips

- ✓ You can go to registration desk if you need any help.
- ✓ Attendees can visit scenic spots such as Palace Museum of Manchukuo, Changying Old Site Museum, Changchun World Sculpture Park, Jingyuetan National Forest Park, Changchun Lotus Island Film & Leisure Cultural Park for free with your conference cards (go by yourself, no unified tour).

Map of **1F**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Hengshan Hall
华山厅
Huashan Hall
庐山厅
Lushan Hall
103贵宾室
103 Vip Room
103会议室
103 Meeting Room
104会议室
104 Meeting Room
WC
EXIT / LIFT
EXIT
LIFT
Spiral stair
Escalator
102贵宾室
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WIP Room
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黄山厅
Huangshan Hall
熙光厅
Xiguang Hall

Map of
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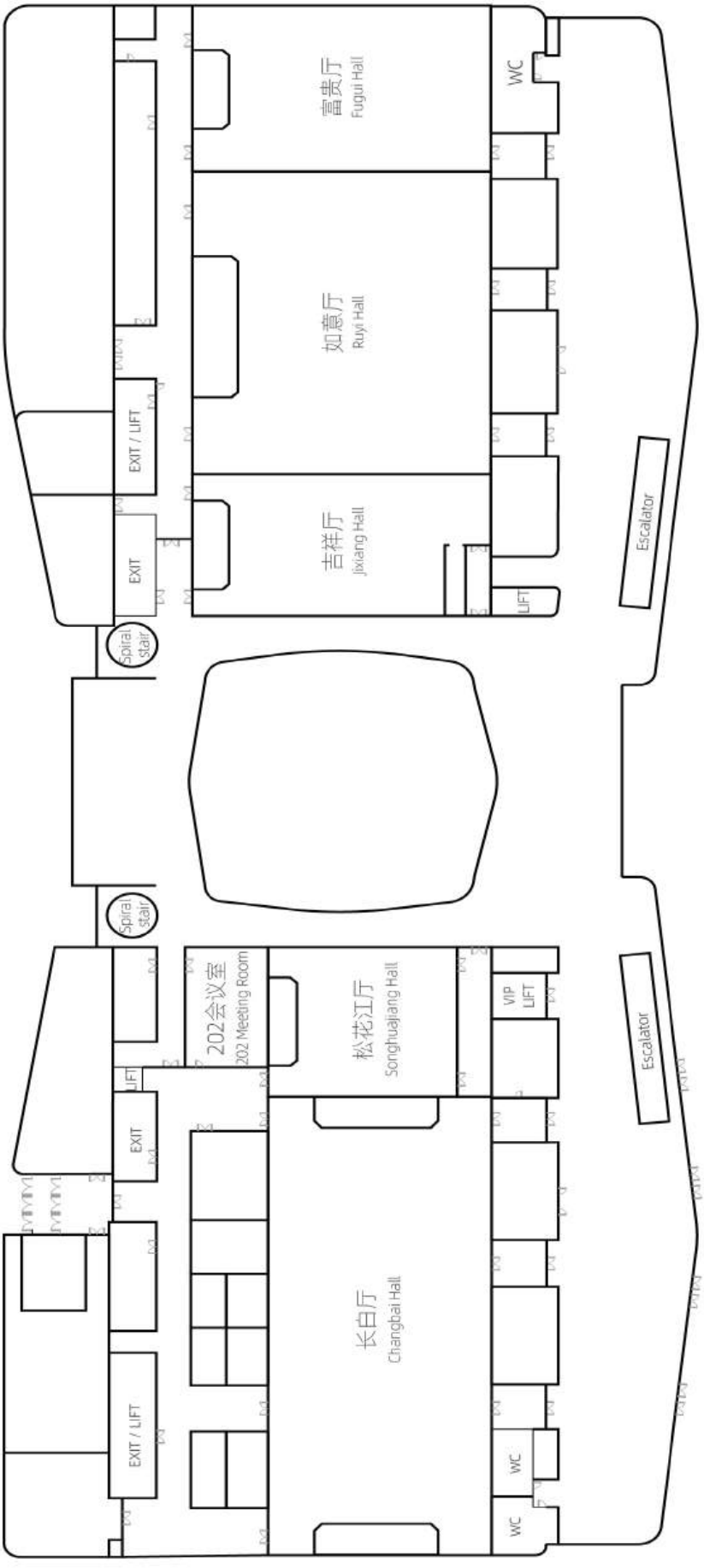
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Fugui Hall
如意厅
Ruyi Hall
吉祥厅
Jixiang Hall
WC
EXIT / LIFT
EXIT
Spiral stair
LIFT
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202 Meeting Room
松花江厅
Songhuajiang Hall
VIP LIFT
长白厅
Changbai Hall
WC
WC
EXIT / LIFT
EXIT
LIFT
Spiral stair
Escalator

General Program

	Thursday Jun. 11	Friday Jun. 12	Saturday Jun. 13	Sunday Jun. 14	Address	
Registration	09:00-20:00				Lobby, Wanda Vista Changchun International Movie Metropolis	
		09:00-18:00	09:00-18:00	09:00-18:00	1F, Northeast Asia International Conference Center	
LSA Editorial Board Meeting (in English) (By Invitation Only)	11:00-15:30				First Floor Lobby, New Quality Productive Forces Digital Innovation Center	Phase II, CETDZ Optoelectronic Information Industrial Park
Opening of the Changchun International Optoelectronic Exposition (in Chinese)		09:00-10:00			2F Ruyi Hall	Northeast Asia International Conference Center
Poster Session		10:20-12:00			2F Changbai Hall Foyer	
Opening & Plenary Session (I) (in English)		13:30-18:00			2F Changbai Hall	
Opening Ceremony of the Changchun Flagship Conference of the Chinese Optical Society (in Chinese)			08:30-12:00		2F Changbai Hall	
Opening Ceremony of the Atomic-Level Manufacturing Conference (in Chinese)			09:30-12:00		2F Ruyi Hall	
Track 1: Green Agriculture (in English)			09:00-18:00		1F Xiguang Hall	
Track 2: Intelligent and Advanced Manufacturing (in English)			09:00-17:30		2F Songhuajiang Hall	
Track 3: Interdisciplinary Forum (in English)			09:00-18:00	09:00-15:30	1F Huangshan Hall	
Track 4: Micro- and Nano-Photonics (in English)			09:00-18:00	09:00-12:30	1F Room 102	
Track 5: Intelligent light-field detection (in English)				09:00-15:30	1F Room 103	
Track 6: Optical Imaging and Display Technologies (in English)			09:00-18:00		1F Room 104	
Track 7: Biophotonics and Medical Optics (in English)				09:00-15:30	1F Room 104	
Track 8: Luminescence and Applications (in English)			09:00-18:00		1F Room 103	
Track 9: Light-responsive polymers and applications (in English)				09:00-15:30	1F Xiguang Hall	
Track 10: Light: Sino-Polish Photonics Forum (in English)				09:00-15:30	2F Songhuajiang Hall	
Light Doctoral Academic League Grand Final & Awards Ceremony (in Chinese)			09:00-18:00	09:00-15:20	1F Huashan Hall	
Plenary Session II & Closing Ceremony of Light Conference (in English)				15:30-17:10	1F Huashan Hall	

Conference Programs

Main Conference

Time	Content
June 12, Northeast Asia International Conference Center	
09:00-10:00	**Opening of the Changchun International Optoelectronic Exposition (2F Ruyi Hall)**
10:00-10:20	***Break***
10:20-12:00	***Poster Session (2F Changbai Hall Corridor)*** ***Visit the Optoelectronics Exhibition (Exhibition Hall ABC)***
12:00-13:30	***Lunch***
Opening Ceremony of Light Conference (2F Changbai Hall)	
Chair: Prof. Harald Giessen	
13:30-13:45	**Welcome remarks (Prof. Paul Urbach; Prof. Xuejun Zhang)**
13:45-13:55	**Prof. Martin Booth, Co-Editor-in-Chief of Light: Science & Applications (University of Oxford, UK)** Title: From Legacy to Horizon: Steering Light into a New Era of Global Impact
13:55-14:05	**Light Annual Report Launching Ceremony (Prof. Hongbo Sun)**
14:05-14:20	***Awards Ceremony (Top Ten Social Impact Events in China's Optics (Light 10)*** ***/Light Outstanding Editors/Reviewers/Papers Awards)***
14:20-14:25	***Echoes of Light: A Tribute to Prof. Xi-Cheng Zhang***
14:25-14:30	***Group photo***
Plenary Session I	
Chair: Prof. Hervé Maillotte	
14:30-15:05	**Prof. Konstantin Novoselov (National University of Singapore, Singapore) (Plenary)** Title: van der Waals heterostructures
15:05-15:35	***Coffee Break***
15:35-16:10	**Prof. Xi-Cheng Zhang (University of Rochester, USA) (Plenary)** Title: THz Photonics: A Journey from Scientific Curiosity to Transformative Technology
16:10-16:45	**Prof. Martin Wegener (Karlsruhe Institute of Technology, Germany) (Plenary)** Title: Holographic 3D laser printing at the speed-of-light limit
16:45-17:20	**Prof. Cheng-Wei Qiu (National University of Singapore, Singapore) (Plenary)** Title: Nonlinear 2D-Materials and vdW Metaphotonics
18:00-20:00	***Banquet*** ***(Take shuttle bus from venue to hotel)***

June 14, Northeast Asia International Conference Center, 1F Huashan Hall	
Plenary Session II & Closing Ceremony of Light Conference	
Chair: Prof. Martin Booth	
15:30-16:05	**Prof. Yuguang Ma (South China University of Technology, China) (Plenary)** Title: Organic Soliton Semiconductor
16:05-16:40	**Prof. Lu Fang (Tsinghua University, China) (Plenary)** Title: Computational Optics: A Symphony of Physics and Intelligence
16:40-17:00	***Awards Ceremony (Best Papers / Posters Awards)***
17:00-17:10	***Closing Speech***
18:00-20:30	***Dinner***

Track 1: Green Agriculture

Time	Content
June 13, Northeast Asia International Conference Center, 1F Xiguang Hall	
09:00-10:10	Session 1, Chair: Boris Mizaikoff
09:00-09:30	**Prof. Cuong Cao (Queen's University Belfast, UK) (Keynote)** Title: From Hotspot Formation to Reliable Signal Control: Engineering SERS and Nanozyme-Based Sensing in Agricultural Systems
09:30-09:50	**Prof. Wenfa Lv (Jilin Agricultural University, China) (Invited)** Title: Green Agriculture and Sustainable Beef Cattle Breeding
09:50-10:10	**Prof. Wanneng Yang (Huazhong Agricultural University, China) (Invited)** Title: What can high-throughput phenotyping and AI bring us?
10:10-10:40	*Coffee break*
10:40-12:10	Session 2, Chair: Jingqiu Liang
10:40-11:10	**Prof. Bin Ren (Xiamen University, China) (Keynote)** Title: AI-Enhanced Rapid SERS Screening of Trace Organic Compounds in Complex Matrices
11:10-11:30	**Prof. Frits van Evert (Wageningen University, The Netherlands) (Invited)** Title: The use of light-based technologies in automated farming
11:30-11:50	**Prof. Mingdong Zhu (Hunan Academy of Agricultural Sciences, China) (Invited)** Title: Laser Transmittance Spectroscopy Enables Nondestructive Single-Seed Vigor Sensing in Rice for Green Agriculture
11:50-12:10	**Prof. Wenting Yang (Changchun Academy of Agricultural Sciences, China) (Invited)** Title: Biocontrol Strains for Tobacco Disease Control
12:10-14:00	*Lunch*
14:00-15:10	Session 3, Chair: Frits van Evert
14:00-14:30	**Prof. Boris Mizaikoff (University of Ulm, Germany) (Invited)** Title: Mid-Infrared Technologies in Agri-Food Safety: Can Photonics Hunt a Cereal Killer?
14:30-14:50	**Prof. Leo Marcelis (Wageningen University, The Netherlands) (Invited)** Title: Lighting in high-tech farming systems
14:50-15:10	**Prof. Yumin Zhao (Jilin Academy of Agricultural Sciences, China) (Invited)** Title: Applications of Optical Technology in Modern Animal Husbandry
15:10-15:30	*Coffee break*
15:30-17:00	Session 4, Chair: Cuong Cao
15:30-15:50	**Prof. Jingqiu Liang (Changchun Institute of Optics, Fine Mechanics and Physics, CAS, China) (Invited)** Title: Technology and Instruments for Fluorescence Detection and Sorting of Third-Generation Hybrid Rice Propagation Line Seeds
15:50-16:10	**Prof. Haitao Nie (Changchun Institute of Optics, Fine Mechanics and Physics, CAS, China) (Invited)** Title: Research on Key Technologies and System Application of Intelligent Optoelectronics Empowering Livestock Target Performance Measurement

16:10-16:30	**Prof. Xiaohui Yuan (Jilin Agricultural University, China) (Invited)** Title: From Knowledge Density to Infrastructure: A Pathway to Constructing High-Quality Agricultural Datasets
16:30-16:50	**Prof. Yucheng Zhang (ICT, CAS, China) (Invited)** Title: Construction and Application Practice of Smart Agriculture Technology System at Fuxi Farm
16:50-17:00	**Zhijie Xu (University College London, UK) (Oral)** Title: Promoting Plant Growth by Horticulture Luminescent Solar Concentrators
18:00-20:00	***Dinner***

Track 2: Intelligent and Advanced Manufacturing

Time	Content
June 13, Northeast Asia International Conference Center, 2F Songhuajiang Hall	
09:00-10:20	Session 1, Chair: David H. Wei
09:00-09:30	**Dr. Byoung Ho Lee (Park Systems Corporation, Korea) (Keynote)** Title: Optic Technologies in Semiconductor Processes
09:30-10:00	**Prof. Martin Booth (University of Oxford, UK) (Keynote)** Title: Adaptive Optics and Precision Laser Fabrication
10:00-10:20	**Prof. Ruidong Xue (University of Nottingham, UK) (Invited)** Title: Physics-Informed Convolutional Neural Networks for Surface Reconstruction in Coherence Scanning Interferometry
10:20-10:50	*Coffee break*
10:50-11:40	Session 2, Chair: Byoung Ho Lee
10:50-11:20	**Prof. Jun Ho Lee (Kongju National University, South Korea) (Keynote)** Title: Adaptive Optics-Assisted Through-Focus Scanning Microscopy (TSOM) for Sub-Resolution Defect Inspection and Metrology
11:20-11:40	**Prof. Zheng Xi (University of Science and Technology of China, China) (Invited)** Title: Structured Light for Transverse Displacement Sensing
11:40-14:00	*Lunch*
14:00-15:10	Session 3, Chair: David H. Wei
14:00-14:30	**Prof. Fumin Huang (Queen's University Belfast, UK) (Keynote)** Title: Superoscillation: Beating the Diffraction Limit in the Far Field
14:30-14:50	**Prof. Yijiang Shen (Guangdong University of Technology, China) (Invited)** Title: Curvilinear OPC with AI-Powered SRAF Placement
14:50-15:10	**Dr. Jing Fu (Shanghai Guicheng Technology, China) (Invited)** Title: AI-Assisted Optical Proximity Correction for Faster Convergence in Semiconductor Manufacturing
15:10-15:40	*Coffee break*
15:40-16:50	Session 4, Chair: Byoung Ho Lee
15:40-16:00	**Ms. Ying Wang (Guangdong University of Technology, China) (Invited)** Title: A Unified Abbe-Hopkins Framework for Source-Mask Optimization in Advanced Lithography
16:00-16:20	**Prof. Na Liu (Xiamen University, China) (Invited)** Title: Efficient Thermal Prediction and Reduced-Order Modeling for Highly Integrated Systems
16:20-16:40	**Prof. Xu Ma (Beijing Institute of Technology, China) (Invited)** Title: Computational Lithography Empowered by AI
16:40-16:50	**Mr. Wenxiang Hou(University of Science and Technology of China, China)(Oral)** Title: Direct Laser Printing of 3D Hierarchical Ni(OH)2/NiO Microarchitectures with Adjustable Porosity
18:00-20:00	*Dinner*

Track 3: Interdisciplinary Forum

Time	Content
June 13, Northeast Asia International Conference Center, 1F Huangshan Hall	
09:00-10:10	**Session 1, Chair: Kyoung-Ho Kim**
09:00-09:30	**Prof. Laura Na Liu (University of Stuttgart, Germany) (Keynote)** Title: Organic Electrochemical Meta-Displays
09:30-09:50	**Prof. Costantino De Angelis (University of Brescia, Italy) (Invited)** Title: Analog computing with nonlinear flat optics
09:50-10:10	**Prof. Guang-Wei Hu (Nanyang Technological University, Singapore) (Invited)** Title: Hyperbolic surface polaritonics on bulk crystals
10:10-10:50	***Coffee break***
10:50-12:10	**Session 2, Chair: Laura Na Liu**
10:50-11:10	**Prof. Kyoung-Ho Kim (Kyung Hee University, Republic of Korea) (Invited)** Title: Mie-assisted guided-mode excitation in synthetically fabricated silicon metawires
11:10-11:30	**Prof. Peng Wang (Shanghai Institute of Technical Physics, CAS, China) (Invited)** Title: Recent progress of the blocked impurity band VLWIR photodetector
11:30-11:50	**Prof. Qi-Tong Li (Tsinghua University, China) (Invited)** Title: Electrically tunable quantum localization and transport of interlayer excitons in an artificial superlattice
11:50-12:10	**Prof. Xing-Yuan Lu (Soochow University, China) (Invited)** Title: Tailoring Coherence for Dynamic Sensing
12:10-14:00	***Lunch***
13:30-15:10	**Session 3, Chair: Alexander Shkurinov**
13:30-14:00	**Prof. Ai-Qun Liu (The Hong Kong Polytechnic University, China) (Keynote)** Title: The Intersection of Quantum Microprocessors and AI Creates a Dynamic "Arms Race"
14:00-14:30	**Prof. Xiao-Bo Yin (The University of Hong Kong, China) (Keynote)** Title: Scalable Photonic Materials for Radiative Cooling and Sustainability
14:30-14:50	**Prof. Sun Kyung Kim (Kyung Hee University, Republic of Korea) (Invited)** Title: AI-Driven Inverse Design of Thermal Metamaterials
14:50-15:10	**Prof. Ioannis Papakonstantinou (University College London, UK) (Invited)** Title: Harvesting energy from the Cold Universe: The missing piece in the renewables puzzle
15:10-15:40	***Coffee break***
15:40-16:40	**Session 4, Chair: Xiao-bo Yin**
15:40-16:00	**Prof. Alexander Shkurinov (Lomonosov Moscow State University, Russia) (Invited)** Title: Terahertz Time-Resolved Nonlinear Optics of Hybrid Medium: From Gas to Liquid

16:00-16:20	**Prof. Bo Hou (Cardiff University, UK) (Invited)** Title: Inkjet-Printed Colloidal Quantum Dots as Solution-Processed Quantum Solids for Lighting and Sensing
16:20-16:40	**Prof. Wei-Min Sun (Harbin Engineering University, China) (Invited)** Title: Few mode to single mode fiber converter based on micro lens array and fiber bundle for astronomical spectral observation
18:00-20:00	***Dinner***

Time	Content
June 14, Northeast Asia International Conference Center, 1F Huangshan Hall	
09:00-10:10	**Session 1, Chair: Harald Schneider**
09:00-09:30	**Prof. Fei Ding (Leibniz University Hannover, Germany) (Keynote)** Title: Towards long distance quantum communication with deterministic single photon sources
09:30-09:50	**Prof. Peng Zhang (Politecnico di Torino, Italy) (Invited)** Title: Ambient Droplet Reactor: An Analytical Platform for Single-molecule Manipulations and Characterizations
09:50-10:10	**Prof. Gui-Lu Long (Tsinghua University, China) (Invited)** Title: Avoiding Decapitation Strikes: Quantum Direct Communication with Exposure Awareness
10:10-10:50	***Coffee break***
10:50-11:50	**Session 2, Chair: Fei Ding**
10:50-11:10	**Prof. Harald Schneider (Helmholtz Zentrum Dresden Rossendorf, Germany) (Invited)** Title: THz near-field imaging with a free-electron laser
11:10-11:30	**Prof. Ya-Ting Wan (King Abdullah University of Science and Technology, Saudi Arabia) (Invited)** Title: Integrated Silicon Photonics with Quantum Dot On-Chip Lasers
11:30-11:50	**Prof. Krzysztof Tyszka (University of Warsaw, Poland) (Invited)** Title: Towards VCSEL array-based optical neural sensors
11:50-14:00	***Lunch***
14:00-15:20	**Session 3, Chair: Yating Wan**
14:00-14:20	**Prof. Diaa Khalil (Ain Shams University, Egypt) (Invited)** Title: From Sensor Solutions to Physical AI: How the Micro_Photonic can support the new era of the AI
14:20-14:40	**Prof. Meng-Jian Zhu (National University of Defense Technology, China) (Invited)** Title: Toward p-type 2D semiconductors: from efficient hole doping to wafer-scale growth
14:40-15:00	**Prof. Jun-Jia Wang (Southeast University, China) (Invited)** Title: Heterogeneous integrated optical modulators and photodetectors for communication and computing
18:00-20:00	***Dinner***

Track 4: Micro-and Nano-Photonics

Time	Content
June 13, Northeast Asia International Conference Center, 1F Room 102	
09:00-10:05	Session 1, Chair: Harald Giessen
09:00-09:25	**Prof. Lei Zhou (Fudan University, China) (Keynote)** Title: Metasurfaces for manipulating vectorial light fields
09:25-09:45	**Prof. Oleksii Ilchenko (Lightnovo ApS, Denmark) (Invited)** Title: qRICO-Net: machine-learning-based crystallographic orientation mapping using polarized Raman microscopy
09:45-10:05	**Prof. Renmin Ma (Peking University, China) (Invited)** Title: Narwhal wavefunctions and the quest for ultimate light localization
10:05-10:30	*Coffee break*
10:30-11:55	Session 2, Chair: Wolfgang Freude
10:30-10:55	**Prof. Jin Zhong Zhang (University of California Santa Cruz, USA) (Keynote)** Title: Shed Light on chirality and carrier spin dynamics of metal halide perovskite quantum dots and nanoclusters
10:55-11:15	**Prof. Jianhua Jiang (University of Science and Technology of China, China) (Invited)** Title: TBD
11:15-11:35	**Prof. Kosmas L. Tsakmakidis (National and Kapodistrian University of Athens, Greece) (Invited)** Title: Theory and applications of complex-frequency excitations in photonics
11:35-11:55	**Prof. Ifor Samuel (University of St Andrews, UK) (Invited)** Title: OLEDs with Record Light Output for Communications and an Electrically Driven Polymer Laser
11:55-14:00	*Lunch*
14:00-15:05	Session 3, Chair: Jin Zhong Zhang
14:00-14:25	**Prof. Sergey Gaponenko (B. I. Stepanov Institute of Physics, National Academy of Sciences of Belarus) (Keynote)** Title: Colloidal nanoplasmonics to enhance light-matter interaction in nanophotonic devices
14:25-14:45	**Prof. Wolfgang Freude (Karlsruhe Institute of Technology, Germany) (Invited)** Title: Wireless THz single-polarization high-speed P2P and P2MP transmission over long and short distances
14:45-15:05	**Prof. Long Zhang (Xiamen University, China) (Invited)** Title: Valley-Engineered Landau Polaritons in a Van der Waals Semiconductor Microcavity
15:05-15:40	*Coffee break*
15:40-17:40	Session 4, Chair: Oleksii Ilchenko
15:40-16:00	**Prof. Harald Giessen (University of Stuttgart, Germany) (Invited)** Title: Discovery of phonon-polaritonic skyrmions

16:00-16:20	**Prof. Jingtian Hu (Harbin Institute of Technology (Shenzhen), China) (Invited)** Title: Training of Free-space Optical Visual Processors
16:20-16:40	**Prof. Xinfeng Liu（National Center for Nanoscience and Technology）(Invited)** Title: Carrier Dynamics in Superlattice Material System
16:40-17:00	**Prof. Weitao Liu (Fudan University, China) (Invited)** Title: Field-enhanced nonlinear optics of low-dimensional and interfacial systems
17:00-17:20	**Prof. Yu Luo (Nanjing University of Aeronautics and Astronautics, China) (Invited)** Title: Shining wrinkles: making graphene emissive at room-temperature
17:20-17:40	**Prof. Feng Liu (Zhejiang University, China) (Invited)** Title: Single-photon sources based on quantum dots in photonic crystal cavities
18:00-20:00	***Dinner***

Time	Content
June 14, Northeast Asia International Conference Center, 1F Room 102	
09:00-10:10	**Session 1, Chair: Ifor Samuel**
09:00-09:20	**Prof. Paulo Dainese (Corning Research & Development Corporation, Brazil) (Invited)** Title: Wavefront Control with Metasurfaces for Optical Interconnects
09:20-09:40	**Prof. Siying Peng (Westlake University, China) (Invited)** Title: Continuous-Wave Chiral Exciton–Polariton Lasers Across the Visible and Infrared
09:40-10:00	**Prof. Feng Li (Xi'an Jiaotong University, China) (Invited)** Title: Optical skyrmions in single microcavities formed by photonic spin-orbit coupling
10:00-10:10	**Dr. Yue Liu (University of Science and Technology of China, China) (Oral)** Title: Research on Shear Phonon Polaritons in $CdWO_4$
10:10-10:40	***Coffee break***
10:40-12:20	**Session 2, Chair: Kosmas L. Tsakmakidis**
10:40-11:00	**Prof. Qing Zhang (Peking University, China) (Invited)** Title: Harnessing highly efficient coherent polariton parametric emission in quantum confined microcavities
11:00-11:20	**Prof. Linhan Lin (Tsinghua University, China) (Invited)** Title: Laser Nanoprinting of Nanocrystals: From 3D Printing to Single Emitter Integration
11:20-11:40	**Prof. Jingwen Ma (The University of Hong Kong, China) (Invited)** Title: Light-matter interactions in photonic nanostructures and magnetic nanomaterials
11:40-12:00	**Prof. Jun Guan (The Chinese University of Hong Kong (Shenzhen), China) (Invited)** Title: Structured Lasing with Topological and Moiré Photonic Cavities
12:00-12:20	**Prof. Cheng Zhang (Huazhong University of Science and Technology, China) (Invited)** Title: Optical Metasurface Empowered Imaging and Displaying
12:20-14:00	***Lunch***

Track 5: Intelligent Light-Field Detection

Time	Content
June 14, Northeast Asia International Conference Center, 1F Room 103	
09:00-10:10	Session 1, Chair: Tawfique Hasan
09:00-09:30	**Prof. Yang Chai (The Hong Kong Polytechnic University, China) (Keynote)** Title: Bioinspired In-Sensor Computing for Artificial Vision
09:30-09:50	**Prof. Xuhan Guo (Shanghai Jiao Tong University, China) (Invited)** Title: Integrated Photonics for Intelligent light Computing
09:50-10:10	**Prof. Ni Chen (The University of Hong Kong, China) (Invited)** Title: Differentiable Imaging
10:10-10:40	***Coffee break***
10:40-11:50	Session 2, Chair: Yang Chai
10:40-11:10	**Prof. Weida Hu (Shanghai Institute of Technical Physics, CAS, China) (Keynote)** Title: Infrared Photodetectors: From High-Performance to Intelligence
11:10-11:30	**Prof. Haiding Sun (University of Science and Technology of China, China) (Invited)** Title: Integrated Ultraviolet Optoelectronics for High-Speed Solar-Blind Optical Communication and Miniaturized Spectral Imaging
11:30-11:50	**Prof. Qixiang Cheng (University of Cambridge, UK) (Invited)** Title: Chip-scale Spectroscopic Metrology: From Programmable Photonics to Biomedical Sensing
11:50-13:30	***Lunch***
13:30-14:30	Session 3, Chair: Qixiang Cheng
13:30-13:50	**Prof. Zongyin Yang (Zhejiang University, China) (Invited)** Title: Toward Next-Generation Spectral Detection: A Miniaturized High-Performance Solution
13:50-14:10	**Prof. Wei Zhang (Tsinghua University, China) (Invited)** Title: Reconstructive photon-counting spectrometer and its application on high-dimensional imaging
14:10-14:30	**Prof. Hanxiao Cui (Sichuan University, China) (Invited)** Title: Unified Information-theoretic Framework for Adaptive Spectral Encoders
14:30-15:30	Session 4, Industry Discussion, Chair: Tawfique Hasan, Weiwei Cai, Zongyin Yang
	Prof. Xin Yuan (Westlake University, China) (Invited) **Dr. Haiwei Yin (Shanghai IdeaOptics Co., Ltd., China) (Invited)** **Dr. Hongxing Cai (Stellarexpoe Optoelectronics (Jilin) Technology Co., Ltd.,China) (Invited)**
18:00-20:00	***Dinner***

Track 6: Optical Imaging and Display Technologies

Time	Content
June 13, Northeast Asia International Conference Center, 1F Room 104	
09:00-10:30	**Session 1, Chair: Feihu Xu**
09:00-09:30	**Prof. Giancarlo Ruocco (Italian Institute of Technology, Italy) (Keynote)** Title: Probing Frequency-Dependent Elastic Properties in Condensed Matter via Brillouin Light Scattering
09:30-09:50	**Prof. Se Young Chun (Seoul National University, Korea) (Invited)** Title: Restoring the Unseen: Learning-based Inverse Problems from Multi-degradation Imaging to Lensless Cameras
09:50-10:10	**Prof. Xing Fu (Tsinghua University, China) (Invited)** Title: Non-line-of-sight imaging on arbitrary relay surfaces
10:10-10:30	**Prof. Evan Y. Peng (The University of Hong Kong, China) (Invited)** Title: "Extended" Imaging & Display: Mixing Optics, Graphics, and AI
10:30-10:50	***Coffee break***
10:50-12:00	**Session 2, Chair: Liangcai Cao**
10:50-11:20	**Prof. Hongwei Chen (Tsinghua University, China) (Keynote)** Title: Post-Imaging Era: Optical Pre-sensor Computing
11:20-11:40	**Prof. Ryoichi Horisaki (The University of Tokyo, Japan) (Invited)** Title: Computational imaging with randomness
11:40-12:00	**Prof. Baoqing Sun (Shandong University, China) (Invited)** Title: Single-pixel near infrared hyperspectral imaging with optoelectronic spectrum modulation
12:00-14:00	***Lunch***
14:00-15:30	**Session 3, Chair: Hongwei Chen**
14:00-14:30	**Prof. Liangcai Cao (Tsinghua University, China) (Keynote)** Title: A deep artifact removal approach for multi-core fiber imaging
14:30-14:50	**Prof. Zhipeng Huang (TU Dortmund University, Germany) (Invited)** Title: Capture molecular movies with ultrafast photons and electrons: from isolated gas-phase to liquid- and solid-phase samples
14:50-15:10	**Prof. Ze Zhang (Aerospace Information University, China) (Invited)** Title: Optical Pin Beam and Its Generalized Applications
15:10-15:30	**Prof. Fei Liu (Xidian University, China) (Invited)** Title: Research on Multidimensional Information Decoupling in Scattered Optical Fields
15:30-15:50	***Coffee break***
15:50-17:05	**Session 4, Chair: Xin Yuan**
15:50-16:10	**Prof. Shihai Sun (Sun Yat-sen University, China) (Invited)** Title: Single-pixel Temporal single photon LiDAR

16:10-16:30	**Prof. Weiwei Cai (Shanghai Jiao Tong University, China) (Invited)** Title: Background-Oriented Schlieren Tomography for Flow Diagnostics
16:30-16:50	**Prof. Fei Qiao (Tsinghua University, China) (Invited)** Title: From "Sensing-with-Computing" to Photonics-Electronics-Mixing ICs for Emerging Computing Power Requirements
16:50-17:05	**Dr. Yunhui Gao (Tsinghua University, China) (Oral)** Title: Characterizing complex wavefields with a high-resolution computational wavefront sensor
18:00-20:00	***Dinner***

Track 7: Biophotonics and Medical Optics

Time	Content
June 14，Northeast Asia International Conference Center, 1F Room 104	
09:00-10:30	Session 1, Chair: Yuxuan Ren
09:00-09:30	**Prof. Lothar Lilge (University of Toronto, Canada) (Keynote)** Title: Can personalized PDT treatment planning provide clinically significant improvements?
09:30-09:50	**Prof. Juergen Czarske (TU Dresden, Germany) (Invited)** Title: Computational imaging without computer and quantum imaging without detected light
09:50-10:10	**Prof. Peng Xi (Peking University, China) (Invited)** Title: Super-resolution structured illumination microscopy: polarization, anisotropy, and lattice
10:10-10:30	**Prof. Jiawei Sun (Suzhou Institute of Biomedical Engineering and Technology, CAS,China) (Invited)** Title: Advancing Quantitative Phase Imaging with Lensless Fiber Endomicroscopy
10:30-10:45	*Coffee break*
10:45-12:05	Session 2, Chair: Juergen Czarske
10:45-11:05	**Prof. Fernando D. Stefani (National Scientific and Technical Research Council, Argentina) (Invited)** Title: Nanometer Precision Single Molecule Localization with Raster Scanning Fluorescence Microscopes: Benchmarking RASTMIN, RASTMAX, and RASTED
11:05-11:25	**Prof. Wuwei Ren (ShanghaiTech University, China) (Invited)** Title: Free-space SPAD array-based diffuse optical tomography facilitates in vivo functional imaging
11:25-11:45	**Dr. Jianglai Wu (Chinese Institute for Brain Research, China) (Invited)** Title: Miniature Bessel-beam two-photon microscopy enables high-throughput brain imaging in freely moving mice
11:45-12:05	**Dr. Hongsen He (Xiamen University, China) (Invited)** Title: Reconfiguring Laser Sources for Microscopy: Embedding Imaging Functions into the Source
12:05-13:15	*Lunch*
13:15-14:15	Session 3, Chair: Peng Xi
13:15-13:35	**Dr. Liam Collard (King's College London, UK) (Invited)** Title: Rapid Tomographic Multiphoton Fluorescence Lifetime Imaging
13:35-13:55	**Prof. Xinglin Zeng (Shanghai Institute of Optics and Fine Mechanics, CAS, China) (Invited)** Title: Chiral photon-phonon Brillouin interaction: in twisted photonic crystal fiber and biophotonic applications
13:55-14:15	**Dr. Li Zhang (Istituto Italiano di Tecnologia, Italy) (Invited)** Title: Brillouin Microscopy as a Tool for Probing Mechanics from Tissues to Biomolecular Condensates
14:15-14:30	*Coffee break*

14:30-16:00	**Session 4, Chair: Fernando D. Stefani**
14:30-15:00	**Prof. Andrey Dunaev (Orel State University, Russia) (Keynote)** Title: Multimodal wearable optical analyzers of microcirculatory-tissue systems of the human body
15:00-15:20	**Prof. Xingde Li (Johns Hopkins University, USA) (Invited)** Title: From Surgery to Behavior: Low-Coherence Biophotonics for Brain Imaging
15:20-15:40	**Prof. An Pan (Xi'an Institute of Optics and Precision Mechanics, CAS, China) (Invited)** Title: High-throughput stitching-free whole slide imaging system via Fourier ptychographic microscopy and its applications in hemopathy
15:40-16:00	**Dr. Jiazhang Wang (University of Arizona, USA) (Invited)** Title: Computational 3D Metrology for Biomedical Surface Imaging
18:00-20:00	***Dinner***

Track 8: Luminescence and Applications

Time	Content
June 13, Northeast Asia International Conference Center, 1F Room 103	
09:00-10:10	**Session 1, Chair: Xiao-Jun Wang**
09:00-09:30	**Prof. Xiaogang Liu (National University of Singapore, Singapore) (Keynote)** Title: Designing light at the atomic scale: the chemistry of lanthanide nanomaterials
09:30-09:50	**Prof. Bin Dong (Dalian Minzu University, China) (Invited)** Title: Rare Earth ions 4f Electron Upconversion: Manipulation and Applications
09:50-10:10	**Prof. Xue Bai (Jilin University, China) (Invited)** Title: Lanthanide-based materials and optoelectronic devices
10:10-10:40	***Coffee break***
10:40-12:00	**Session 2, Chair: Xue Bai**
10:40-11:00	**Prof. Caofeng Pan (Beihang University, China) (Invited)** Title: Metal halide perovskite arrays and artificial vision imaging devices
11:00-11:20	**Prof. Zhongqiang Wang (Northeast Normal University, China) (Invited)** Title: Oxide-based optoelectronic memristive materials and bionic vision devices
11:20-11:40	**Prof. Guogang Li (China University of Geosciences (Wuhan), China) (Invited)** Title: Structure design and luminescence tuning for stimulus-responsive luminescent materials
11:40-12:00	**Prof. Yixi Zhuang (Xiamen University, China) (Invited)** Title: Tailoring trap depths in luminescent materials for emerging applications
12:00-13:40	***Lunch***
13:40-15:20	**Session 3, Chair: Caofeng Pan/Zhongqiang Wang**
13:40-14:00	**Prof. Liang Shen (Jilin University, China) (Invited)** Title: Study on novel semiconductor photodetection materials and devices and their application
14:00-14:20	**Prof. Jianxin Tang (Soochow University/Macau University of Science and Technology, China) (Invited)** Title: Rational Charge-Transfer Modulation for Narrowband Blue Thermally Activated Delayed Fluorophores
14:20-14:40	**Prof. Kaikai Liu (Zhengzhou University, China) (Invited)** Title: Semiconductor quantum dot luminescence and X-ray detection
14:40-15:00	**Prof. Dengfeng Peng (Shenzhen University, China) (Invited)** Title: Self-recovery mechanoluminescence of magnesium and aluminum based smart oxides
15:00-15:20	**Prof. Tao Yu (Northwestern Polytechnical University, China) (Invited)** Title: Molecular engineering for organic mechanoluminescence
15:20-15:50	***Coffee break***

15:50-17:50	**Session 4, Chair: Jianxin Tang/Renren Deng**
15:50-16:10	**Prof. Renren Deng (Zhejiang University, China) (Invited)** Title: Dye-coupled lanthanide nanocrystals for advanced optical biosensing and photodynamic therapy
16:10-16:30	**Prof. Huifang Shi (Nanjing Tech University, China) (Invited)** Title: Ultralong organic phosphorescence
16:30-16:50	**Prof. Dezhi Tan (Zhejiang University, China) (Invited)** Title: Photonic glass and applications
16:50-17:10	**Prof. Jiaqi Zhang (Jilin University, China) (Invited)** Title: Manipulating ionic defects in quantum dot optoelectronic devices
17:10-17:30	**Prof. Lihua Lin (Fuzhou University, China) (Invited)** Title: Electric-field topology and confined exciton dynamics in ultrahigh-resolution QLEDs
17:30-17:50	**Prof. Lei Zhou (Sun Yat-sen University, China) (Invited)** Title: High-efficiency rare earth luminescent materials for marine applications: design, preparation, and exploration
18:00-20:00	***Dinner***

Track 9: Light-responsive Polymers and Applications

Time	Content
June 14, Northeast Asia International Conference Center, 1F Xiguang Hall	
09:00-10:30	Session 1, Chair: Danqing Liu
09:00-09:05	**Opening Remarks-Emiliano Descrovi (Politecnico di Torino, Italy)**
09:05-09:40	**Prof. Dirk Jan Broer (Eindhoven University of Technology, The Netherlands) (Keynote)** Title: Liquid Crystal Networks: A Unique Materials Platform for Optics, Haptics and Soft Robotics
09:40-10:05	**Prof. Fabian Eisenreich (Eindhoven University of Technology, The Netherlands) (Invited)** Title: From light beams to materials dreams: Tuning polymer functions with photons
10:05-10:30	**Prof. Yuxin You (South China Normal University, China) (Invited)** Title: Programmed light-responsive topographical deformations in liquid crystal polymers
10:30-10:50	***Coffee break***
10:50-12:15	Session 2, Chair: Dirk Jan Broer
10:50-11:25	**Prof. Deng-ke Yang (South China University of Technology, China) (Keynote)** Title: Liquid Crystal for Smart Windows
11:25-11:50	**Prof. Sara Nocentini (INRIM, National Metrology Institute of Italy, Italy) (Invited)** Title: 3D reconfigurable photonic systems by liquid crystalline polymers
11:50-12:15	**Prof. Maria Gabriela Capeluto (University of Buenos Aires, Argentina) (Invited)** Title: Photoinduced properties of PAZO-based systems with molecular and nanoparticle additives: experimental and simulation studies
12:15-13:30	***Lunch***
13:30-15:20	Session 3, Chair: Emiliano Descrovi
13:30-13:55	**Prof. Jan Lagerwall (University of Luxembourg, Luxembourg) (Invited)** Title: Hidden in plain sight: Information for robots and Augmented Reality invisibly encoded using bioinspired structural color reflectors
13:55-14:20	**Prof. Yanjun Liu (Southern University of Science and Technology, China) (Invited)** Title: Light-driven liquid crystalline materials for chiroptics and actuation
14:20-14:45	**Prof. Danqing Liu (Eindhoven University of Technology, The Netherlands) (Invited)** Title: Light trained intelligent liquid crystal polymers
14:45-15:10	**Dr. Linjie Dai (Peking University, China) (Invited)** Title: Spin engineering in low-dimensional emitters
15:10-15:20	**Dan Chen (National University of Defense Technology, China) (Oral)** Title: All-solid passive organic optical limiter via coordination-bond anchoring strategy
18:00-20:00	***Dinner***

Track 10: Light: Sino-Polish Photonics Forum

Time	Content
June 14, Northeast Asia International Conference Center, 2F Songhuajiang Hall	
09:00-10:25	Session 1, Chair: Chao Zuo
09:00-09:25	**Prof. Karol Karnowski (Centre for Translational Eye Research, Poland) (Keynote)** Title: ICTER: Redefining Ophthalmology through Multidisciplinary Excellence and Global Collaboration
09:25-09:45	**Prof. Malgorzata Kujawinska (Warsaw University of Technology, Poland) (Invited)** Title: Towards digital twins of quantitative phase imaging systems in biomedical applications
09:45-10:05	**Prof. Renjie Zhou (The Chinese University of Hong Kong, China) (Invited)** Title: Coherence-gated optical diffraction tomography for label-free volumetric imaging of cells in thick tissues
10:05-10:25	**Prof. Peng Gao (Xidian University, China) (Invited)** Title: Quantitative Phase Microscopy and Phase Correlation Spectroscopy for Biology
10:25-10:35	***Coffee break***
10:35-12:20	Session 2, Chair: Maciej Trusiak
10:35-11:00	**Prof. Lukasz A. Sterczewski (Wroclaw University of Science and Technology, Poland) (Keynote)** Title: Ultra-broadband spectroscopy from the UV to the THz using coherent and incoherent light sources
11:00-11:20	**Prof.** Michał Parniak (University of Warsaw, Poland) (Invited) Title: All-optical microwave and THz sensors based on Rydberg atoms
11:20-11:40	**Prof. Shaohui Zhang (Beijing Institute of Technology, China) (Invited)** Title: ObjSplat: Geometry-aware Gaussian surfels for active object reconstructions
11:40-12:00	**Prof. Jingdan Liu (Shanghai Institute of Optics and Fine Mechanics, CAS, China) (Invited)** Title: Recent advances in single-shot computational ultrafast imaging
12:00-12:20	**Prof. Shijie Feng (Nanjing University of Science and Technology, China) (Invited)** Title: Spatiotemporal super-resolution of structured-light 3D imaging driven by physical priors and artificial intelligence
12:20-13:30	***Lunch***
13:30-15:00	Session 3, Chair: Malgorzata Kujawinska
13:30-13:50	**Prof. Maciej Trusiak (Warsaw University of Technology, Poland) (Invited)** Title: From chemical contrast to scattering-robust tomography: broadband lensless computational microscopy for label-free high-content bioimaging
13:50-14:10	**Prof. Chao Zuo (Nanjing University of Science and Technology, China) (Invited)** Title: Computational phase imaging for label-free 3D microscopy: noninterferometic phase retrieval and intensity diffraction
14:10-14:30	**Prof. Piotr Zdańkowski (Warsaw University of Technology, Poland) (Invited)** Title: Common-Path Diffraction Tomography: Overcoming the Conjugate Image Problem in Dense Samples
14:30-14:45	**Prof. Shengjia Wang (Harbin Engineering University, China) (Oral)** Title: Phase Manipulating Fresnel Lenses for Differential Interference Quantitative Phase Microscopy

14:45-15:00	**Dr. Zhuoshi Li (Nanjing University of Science and Technology, China) (Oral)** Title: Learning to self-interfere: zero-shot deconvolution enables replica-free, low-coherence common-path quantitative phase microscopy
18:00-20:00	***Dinner***

2026 年全国光学与光学工程博士生学术联赛全国总决赛

时间	内容
6 月 13 日，星期六（东北亚国际会议中心，1F 106 华山厅）	
09:00-09:30	总决赛开幕式
09:30-09:45	1 号选手 - 东北赛区 报告题目：基于 OPGW 光缆通感融合的特高压输电线路防冰抗冰技术研究
09:45-10:00	2 号选手 - 华南赛区 报告题目：基于氮化硅光栅微环的集成非线性光子器件研究
10:00-10:15	3 号选手 - 上海赛区 报告题目：基于几何相位的硅基集成光子器件
10:15-10:30	4 号选手 - 华北赛区 报告题目：非接触光声显微 -- 高分辨成像与跨场景应用探索
10:30-10:50	**茶歇**
10:50-11:05	5 号选手 - 北京赛区 报告题目：光学 - 系统协同的视网膜级分辨率 3D 光场显示技术
11:05-11:20	6 号选手 - 西北赛区 报告题目：单壁碳纳米管太赫兹超表面共振机理及应用研究
11:20-11:35	7 号选手 - 海峡赛区 报告题目：大视场高速光学相控阵芯片研究
11:35-11:50	8 号选手 - 华中赛区 报告题目：可控超快激光及精密测量应用
11:50-12:05	9 号选手 - 北京赛区 报告题目：基于多焦点调制照明的深层超分辨显微成像系统
12:05-13:45	**午休**
13:45-14:00	10 号选手 - 西北赛区 报告题目：集成化偏振复用正交剪切干涉定量相位成像技术
14:00-14:15	11 号选手 - 华中赛区 报告题目：智控驭光：大规模光纤激光阵列智能锁相
14:15-14:30	12 号选手 - 东北赛区 报告题目：高光谱分辨率沙氏激光雷达技术研究
14:30-14:45	13 号选手 - 上海赛区 报告题目：高分辨率 X 射线波带片制作技术研究
14:45-15:00	14 号选手 - 华北赛区 报告题目：多参数量子干涉仪
15:00-15:15	15 号选手 - 华北赛区 报告题目：面向海洋参数监测的微结构光纤混合干涉传感技术研究
15:15-15:40	**茶歇**

15:40-15:55	16 号选手 - 鲁苏皖赛区 报告题目：液晶平面光子元件赋能的双面环绕式增强现实三维显示
15:55-16:10	17 号选手 - 华南赛区 报告题目：激光高相干暂稳态的可控复现
16:10-16:25	18 号选手 - 西南赛区 报告题目：基于超薄硅基超透镜的智能成像研究
16:25-16:40	19 号选手 - 华南赛区 报告题目：基于光场调控的各向同性三维超分辨成像技术
18:00-20:00	**晚餐**
6 月 14 日，星期日（东北亚国际会议中心，1F 106 华山厅）	
09:00-09:15	20 号选手 - 北京赛区 报告题目：深度学习驱动的单端多模光纤柔性机器人通用形态感知
09:15-09:30	21 号选手 - 海峡赛区 报告题目：基于辐射调 Q 复变传感的晶圆级非局域超表面及其临床应用
09:30-09:45	22 号选手 - 海峡赛区 报告题目：仿生微光学触角：微纳尺度下的超灵敏多模态智能感知
09:45-10:00	23 号选手 - 西北赛区 报告题目：基于完全频谱解耦超表面的多维伪装集成技术
10:00-10:15	24 号选手 - 上海赛区 报告题目：基于选择性光谱盲响应的高对比度红外光谱探测
10:15-10:35	**茶歇**
10:35-10:50	25 号选手 - 北京赛区 报告题目：电光梳赋能的调频连续波激光雷达
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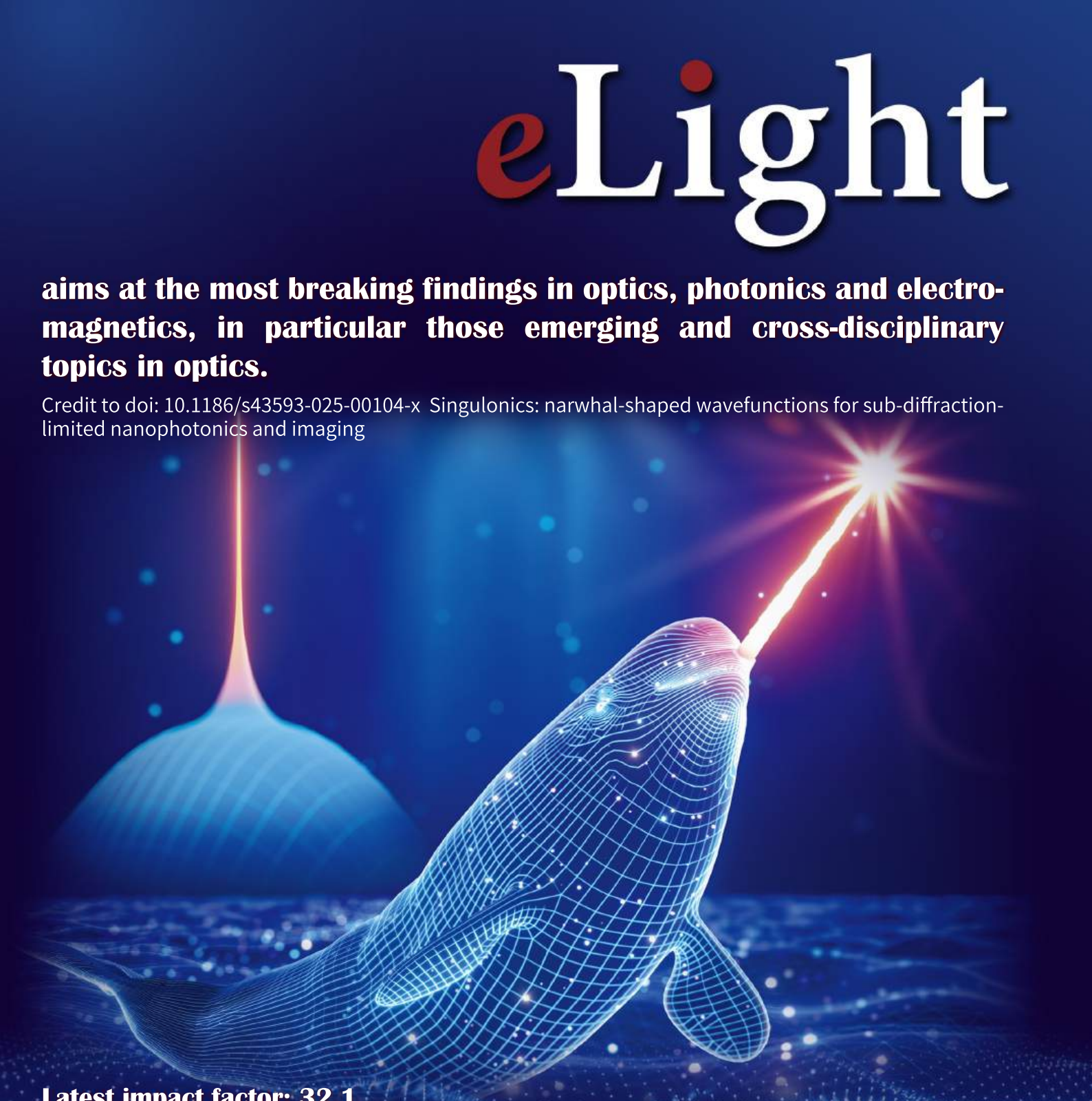

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