

CLEO-PR 2026

THE 17TH PACIFIC RIM CONFERENCE ON LASERS AND ELECTRO-OPTICS

CLEO-PR 2026

THE 17TH PACIFIC RIM CONFERENCE ON LASERS AND ELECTRO-OPTICS

3AS 北京国际学术交流季 BEIJING INTERNATIONAL ACADEMIC SEASON

中关村论坛 2026 ZGC FORUM 系列活动 Regular Activities

CONFERENCE PROGRAM

02-06 AUGUST, BEIJING, CHINA

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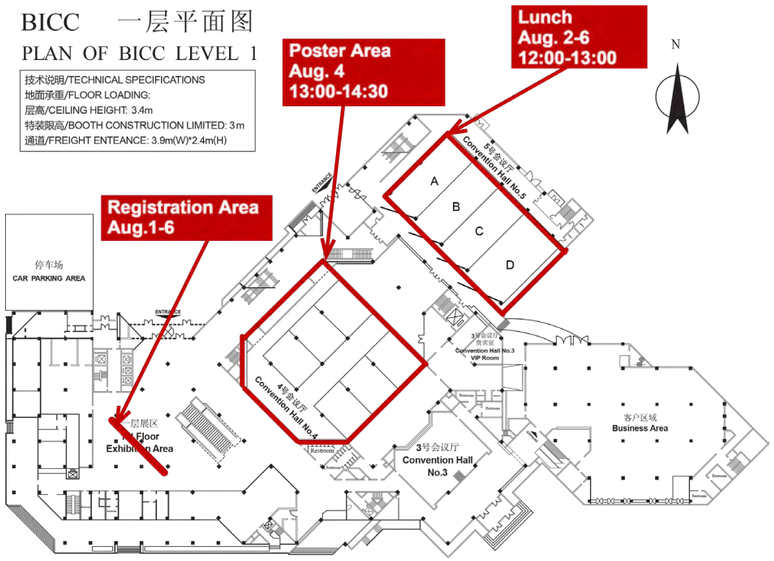
PROGRAM AT A GLANCE

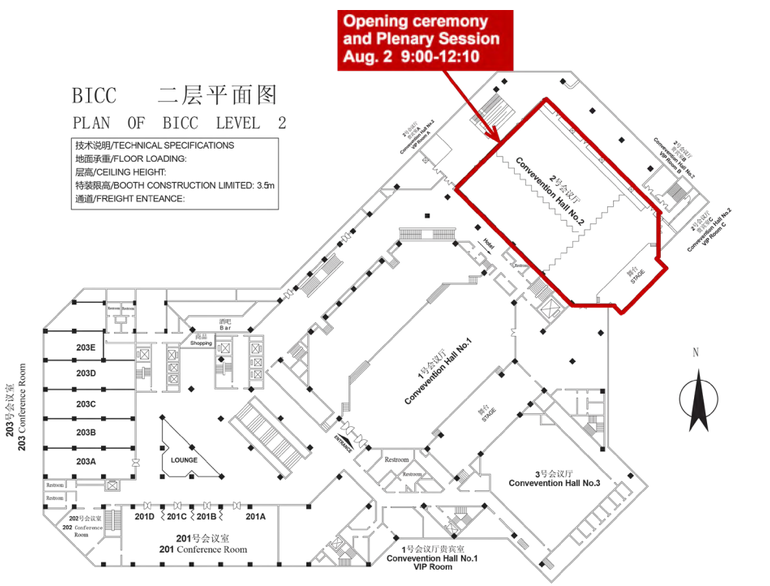
DATE	August 2 (Sun.)	August 3 (Mon.)	August 4 (Tue.)	August 5 (Wed.)	August 6 (Thu.)
AM	**Opening Ceremony** (9:00-9:10) + **Plenary Talks** (9:10-12:10)	Session Talks	Session Talks + **Meeting with Editors** (9:00-11:00)	Session Talks	Session Talks
PM	Session Talks	Session Talks	**Poster Session** (13:00-14:30) + Session Talks	Session Talks	Session Talks + **Awards Ceremony** (16:00-17:00)

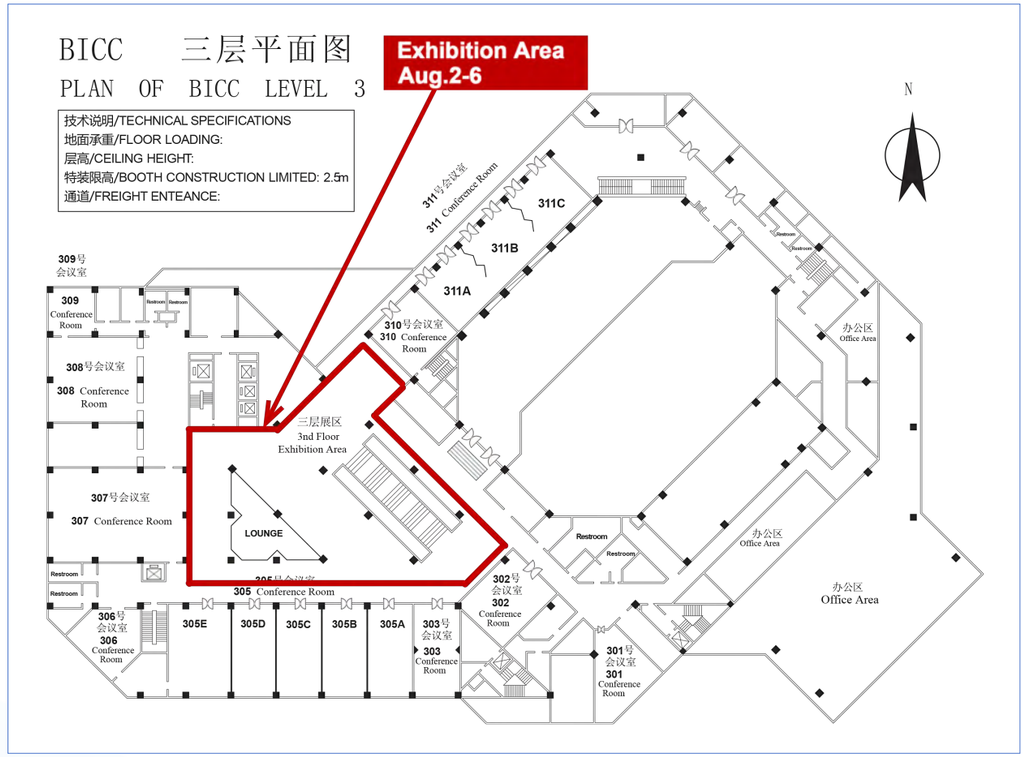
Conference ID	Conference Title	Conference Date	Conference Room
C01	Solid State, Fiber, and Other Laser Sources	Aug. 2 PM – Aug. 5 PM	307
C02	Ultrafast and Nonlinear Phenomena	Aug. 2 PM – Aug. 4 PM	310
C03	Infrared and Terahertz Technologies and Applications	Aug. 5 AM – Aug. 5 PM	311A
C04	High Power, High Energy Lasers	Aug. 2 PM – Aug. 4 PM	311B
C05	Laser Processing and Innovative Applications	Aug. 2 PM – Aug. 3 PM	305D
C06	Optical and Photonic Metrology	Aug. 2 PM – Aug. 4 AM	305B
C07	Quantum Photonics	Aug. 2 PM – Aug. 4 AM	311A
C08	Quantum Science of Light and Matter	Aug. 2 PM – Aug. 4 AM	311C
C09	Micro-, Nano-, and Low-Dimensional Photonics	Aug. 4 AM – Aug. 6 AM	303
C10	Optical Communication Systems and Networks	Aug. 4 AM – Aug. 6 AM	305D
C11	Optical Fiber and Waveguide Technologies	Aug. 2 PM – Aug. 4 AM	302
C12	Semiconductor Lasers and Optoelectronic Devices	Aug. 2 PM – Aug. 5 AM	305C
C13	Integrated Photonics	Aug. 2 PM – Aug. 5 AM	305E
C14	Biophotonics and Applications	Aug. 4 PM – Aug. 6 AM	311C
C15	Metamaterials and Metasurfaces	Aug. 5 AM – Aug. 6 PM	310
C16	Optical Sensors, Display, and Imaging Systems	Aug. 2 PM – Aug. 4 AM	305A
C17	Microwave Photonics and Optical Signal Processing	Aug. 5 AM – Aug. 5 PM	302
C18	AI in Optics and Photonics	Aug. 2 PM – Aug. 5 AM	308

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BEIJING INTERNATIONAL CONVENTION CENTER







EXHIBITORS

OPENING CEREMONY AND PLENARY SESSION

Convention Hall 2, Level 2 | 02 Aug., 09:00-12:10

09:00 - 09:10 Opening Ceremony

09:10 - 09:50

Laser Precision Manufacturing: The resolution limit



Prof. Hong-Bo Sun

Tsinghua University, China

Bio: Hong-Bo Sun received BS/PhD degrees in electronics from Jilin University, China, in 1992/1996. He worked as postdoctoral researcher at the University of Tokushima (1996-2000), assistant professor at Osaka University (2000-2006), Changjiang professor at Jilin University (2006-2017) and Tsinghua University since 2017. His research interest is ultrafast laser manufacturing. So far, he has published over 600 papers in above fields, which are cited for 40000+ times, and H factor is 102, according to ISI search report. He is CAS academician, IEEE, OSA, SPIE, COS and CSOE fellow, editor-in-chief of PhotoniX, and executive editor-in-chief of Light Science and Applications. Hong-Bo Sun received BS/PhD degrees in electronics from Jilin University, China, in 1992/1996. He worked as postdoctoral researcher at the University of Tokushima (1996-2000), assistant professor at Osaka University (2000-2006), Changjiang professor at Jilin University (2006-2017) and Tsinghua University since 2017. His research interest is ultrafast laser manufacturing. So far, he has published over 600 papers in above fields, which are cited for 40000+ times, and H factor is 102, according to ISI search report. He is CAS academician, IEEE, OSA, SPIE, COS and CSOE fellow, editor-in-chief of PhotoniX, and executive editor-in-chief of Light Science and Applications.

Abstract: Existing nanofabrication technologies typically require tools with nanoscale feature sizes (such as cutting edge thickness, tip dimensions, or particle beam diameters) or templates to interact directly with the workpiece to achieve nanoscale resolution. In contrast, photons, as a direct processing medium, offer unique advantages over physical tools, including flexibility and the absence of wear. However, the processing precision defined by the optical diffraction limit (approximately 550 nm for visible light) needs to be improved by an order of magnitude to meet the requirements of true nanofabrication. This report introduces our research on utilizing femtosecond lasers for nonlinear manipulation of light-matter interactions, achieving three-dimensional fabrication with sub-10 nm resolution. Applications of the technology, spanning multiple fields from intelligent micro/nano-robots to photonic quantum integrated chips, will be introduced.

09:50 - 10:30

Reducing energy consumption of data centers by novel design of VCSELs and CMOS-based drivers



Prof. Dieter Bimberg

Bimberg Chinese-German Center for Green Photonics" CIOMP, Chinese Academy of Sciences, Changchun, China and Center of Nanophotonics, TU Berlin, Germany

Bio: Dieter Bimberg was a Professor of EE, RWTH Aachen, before assuming the Chair of Applied Physics at TU Berlin, founding the Center of NanoPhotonics. He held guest professorships at Technion, Haifa, U.C.S.B. CA, and HP in Palo Alto, CA. In 2018 he was appointed as executive director of the "Bimberg Chinese German Center for Green Photonics" at CIOMP of the CAS.He is a member of the German Academy of Sciences, the EU Academy of Sciences, the Russian Academy of Sciences, the US Academies of Engineering and of Inventors, the National Academy of Artificial Intelligence (NAAI), the CORE Academy and Chinese Optical Society, a Life Fellow of APS and IEEE, Vice-President of the IAIA. He is recipient of important international awards, like the UNESCO Nanoscience Award, the Max-Born Award and Medal of IoP and DPG, the Nick Holonyak Jr. Award of IEEE, the MOC Award of the JSAP, the Jun-Ichi Nishizawa Award of IEEE, the Stern-Gerlach Award of DPG. He received honorary doctorates of the University of Lancaster, UK, and the St. Petersburg Alferov University. He has authored more than 1600 papers, 71 patents and patent applications, and six books. The number of times his research works has been cited is 72,000+ and his Hirsch factor is 118.

Abstract: Since 2018 novel consumer applications like Netflix, Block Chain, LIDAR… and most recently AI, not known 2018, have led to a huge increase of internet traffic of 60%/year, much more than then originally predicted by companies like Cisco. This increased use of the internet is increasing its electrical power consumption due to increased data traffic mostly inside data centers. NVDIA announced in 10/24 AI racks consuming 1 MW. New data centers have crossed the 500 MW level. Predictions e.g by IEA Paris or the US government show that the energy consumption will rise in a short time to an extent not further tolerable.

New device designs are developed by us, focusing on energy-efficiency of data traffic at all hierarchy levels combined with larger data rates. Vertical-cavity surface-emitting lasers (VCSELs) for 400+ Gbit/s single fiber data transmission across OM5 multimode fiber with a record energy to bit rate ratio (EDR) of less than ~90 fJ/bit @ 100 Gbit/s at 940 and 1060 nm nm wavelengths are presented. Photon lifetime management is a new key to adopt overall energy consumption to the bit rate of the data traffic (e.g. 25 Gb/s, 50 Gb/s...).

Novel designs of Vertical-Cavity Surface-Emitting Lasers (VCSELs) are presented leading to a strong reduction of thermally induced band gap shift as a function of current and of the series resistance. In our simplest approach (called MUHA 1) blind holes or rings are dry etched into standard devices and then filled with gold resulting in both an effective heat drain technology and electrical shunt, reducing the device series resistance. A different, more sophisticated approach (called MUHA 2) uses the dry etched holes or rings to oxidize the apertures. The shape and size of the aperture now depend on the arrangement of holes, opening the way for polarized emission without etching gratings. First results to validate larger output power, rollover current for single mode emission devices, and reduced series resistance are presented for both cases. Finally, multi-aperture VCSELs (called MAVs) based on positioning multiple MUHA 2 in one high power pseudo single-mode emitter are realized.

Given the progress in reducing EDR of VCSELs below 100 fJ/bit presented here, the next focus should be on the EDR of the driver and the complete module. EDR of commercial drivers is presently at least 10 times larger than that of the VCSELs. Gerfers et al. developed a new driver approach based on ultra-fast CMOS ICs allowing also pre-emphasis showing radically reduced EDR. First results of integration with our VCSELs will be presented. Our VCSELs can be released from the substrate and directly deposited on the driver circuit.

Thus, complete front-end modules are expected to allow for the first time much improved energy efficiency of Tb/sec dense wavelength multiplexing across distances of several 100 m to 1 km in data centers.

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10:30 - 10:50 Coffee Break

10:50 - 11:30

Ultrafast Electron Microscopy —— Advances and Results



Prof. Peter Baum

Universität Konstanz, Germany

Bio: Peter Baum is a professor of physics at University of Konstanz, Germany. He received his PhD in 2005 from Ludwig-Maximilians-Universität München, worked as a postdoctoral scholar with Prof. Zewail at Caltech and was a junior group leader with Prof. Krausz at the Max-Planck-Institute of Quantum Optics. His current research in Konstanz focuses on the interaction of light and matter at ultimately small dimensions of space and time, using electron pulses under light-cycle control. In his spare time, he listens to metal music and goes skiing, swimming or surfing.

Abstract: All processes in materials, nanostructures and devices are on a fundamental level defined by electronic and atomic motion from initial to final conformations. Our approach for a direct, real-space visualization is pump-probe electron microscopy and diffraction with single-electron wavepackets under the control of laser light. The resulting few-femtosecond and attosecond time resolution allows to see almost any light-matter interaction or structural dynamics on fundamental scales in space and time. We report recent technology developments and how they provide insight into phase transitions of strongly correlated materials, ultrafast electronics at terahertz frequency, chiral phonons in magnetic switches, free-electron quantum phenomena and attosecond dynamics in optical nanomaterials, concluding with a perspective on what is yet to come.

11:30 - 12:10

Development of High Power Fiber Laser Components in South Korea



Prof. JU HAN LEE

University of Seoul, Korea

Bio: Ju Han Lee received the Ph.D. degree from the Optoelectronics Research Centre, University of Southampton, UK. He was a visiting scholar at the Technical University of Denmark (2002), a JSPS Research Fellow at the University of Tokyo in Japan (2003–2004), a senior member of the technical staff at the Korea Institute of Science and Technology (2004–2007), and a visiting scholar at the University of Adelaide in Australia (2013–2014). He has been a Professor at the University of Seoul, South Korea, since 2007. His research interests include rare-earth-doped fiber lasers and amplifiers, ultrafast fiber lasers, nonlinear fiber optics, and optical communications. He is the author or coauthor of more than 220 international journal articles and 200 technical conference papers. From 2021 to 2023, he served as a Vice President of the Optical Society of Korea (OSK). He is a Fellow of Optica (formerly the Optical Society of America) and a Senior Member of the IEEE Photonics Society. Additionally, he is the founder of Kromanet Inc., a company specializing in fiber-optic components - particularly, cladding power strippers - based on hydrogen fluoride-free chemical etching technologies.

Abstract: High-power optical fiber lasers are widely used in various applications, such as industrial manufacturing, medical treatments, and advanced defense systems. To implement high-power fiber lasers, a range of fiber optic components with high power-handling capabilities are essential: for example, pump/signal beam combiners, isolators, rare-earth-doped fibers, cladding power strippers, end caps, fiber Bragg gratings, pump LDs, and so on. South Korea possesses a non-negligible fiber laser market, and a variety of domestic R&D activities have been conducted regarding high-power fiber laser components. In this talk, I review the South Korean fiber laser market and report recent technological advances in the domestic fiber laser component industry, with a focus on high-power cladding power strippers.

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SPECIAL ACTIVITIES

Exhibition	02-06 Aug., 08:30-17:50 | Level 3
Meeting with editors	04 Aug., 09:00-11:00 | ROOM 310
Poster Session	04 Aug., 13:00-14:30 | Convention Hall 4,Level 1
Awarding Ceremony	06 Aug., 16:00-17:00 | ROOM 310

POSTER SESSION

Convention Hall 4, Level 1

Poster Setup	10:00-13:00, Aug. 04
Poster Session	13:00-14:30, Aug. 04

MEETING WITH EDITORS

ROOM 310 | 04 Aug., 09:00-11:00

Host: Junada Kullolli (Beijing Institute of Technology, China)

09:00 - 09:20

Inside Nature Photonics: the editorial process and writing tips



Giampaolo Pitruzzello

Senior Editor of Nature Photonics

Bio: Giampaolo joined Nature Photonics in January 2022. He obtained a degree in Physics from the University of Catania (Italy), followed by an MSc in Condensed Matter Physics and Nanotechnology from the same institution in 2015. In 2019, he received his PhD in Physics from the University of York (UK), where he later worked as a postdoctoral researcher. Giampaolo is based in Beijing and handles manuscripts in the areas of optoelectronics, imaging and sensing.

09:20 - 09:40

Light: Science & Applications, eLight, Light: Advanced Manufacturing: for the wellbeing of optics community



Chenzi Guo

Deputy Head of Light Publishing Group
Director of eLight
Editor of Light: Science & Applications (LSA)

Bio: Dr. Guo began her career as an editor of LSA in 2013 and has since played key roles in helping expand the journal brand globally. In 2021, she started eLight, a journal focusing on major breakthroughs across interdisciplinary fields related to optics. Under her leadership, eLight received its latest impact factor of 31.4 in 2025, ranking No. 2 among optics journals for the past three years. Since 2024, she serves as the Deputy Head of the Light Publishing Group, which owns journals including LSA, eLight, Light: Advanced Manufacturing. Dr. Guo is the winner of the National Campaign for Young Editors in STM Journals (2019), TOP Editors of China's Outstanding STM Journals (2023), China's National Public Lesson Lecturer (2025), etc. Dr. Guo is a committee member of International Communication and Collaboration Division of China Editology Society of Science Periodicals, fellow of Youth Innovation Promotion Association of Chinese Academy of Sciences. She is an author/co-author of 30+ journal publications including Nature, she chairs 8 national projects and has been invited for keynote/invited talks in more than 40 conferences.

09:40 - 10:00

Photonics Journal Introduction and MDPI Editorial Process



Nelson Peng

Publisher of *Photonics*

Bio: Nelson Peng graduated from the University of Science and Technology Beijing with a Master's degree. After joining MDPI, he has held the roles of Assistant Editor and Managing Editor for journals including Remote Sensing, Infrastructures, and Photonics, and currently serves as the Publisher of Photonics. His core responsibilities include monitoring the quality of the journal's peer-review process, building solid collaborative relationships between the journal editorial team and external scholars, and providing high-quality publishing services to the academic community.

10:00 - 11:00 Q&A

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Poster Session 142

C01

Solid State, Fiber, and Other Laser Sources

Conference Room: ROOM 307

Conference Date: Aug.2 (Sun.)-Aug.5 (Wed.)

Co-chairs

Changjun Ke (Chinese Academy of Sciences,China)
Pengfei Wang (Northeast Normal Univ., China)
Fabian Rotermund (Korea Advanced Institute of Science and Technology, Korea)
Takashige Omatsu (Chiba Univ., Japan)

Members

Benjamin J. Eggleton (The Univ. of Sydney, Australia)
Xavier Mateos (Universitat Rovira i Virgili, Spain)
Kyunghwan Oh (Nazarbayev Univ., Kazakhstan)
Weidong Chen (Max Born Institute, Germany)
Valentin Petrov (Max Born Institute, Germany)
Richard Mildren (Macquarie Univ., Australia)
Zhenxu Bai (Hebei Univ. of Technology, China)

August 2 (Sunday)

Session Title	Advanced Gain Media for Laser Generation
Session Time	13:30-15:15
Session Chair(s)	Richard Mildren (Macquarie Univ., Australia)

Su1-1 **13:30-14:00**

20 W Level Continuous-Wave Mid-Infrared Laser form Erbium-doped Fluorite Crystal (Invited Paper)
Zhen Zhang(Shanghai Institute of Ceramics, CAS, China);Lei Zhu and Yongguang Zhao(Shandong Univ., China); Dapeng Jiang and Liangbi Su(Shanghai Institute of Ceramics, CAS, China)

Su1-2 **14:00-14:30**

High Power Ultraviolet Femtosecond Laser and Its Application (Invited Paper)
Liu Wenjun(Beijing Univ. of Posts and Telecommunications, China)

Su1-3 **14:30-14:45**

High-Power Operation of a YAG-Yb:YAG Multimode Active Ceramic Waveguide
Barbara Patrizi,Jan Hostaša,Francesco Picelli,Laura Esposito and Guido Toci (National Research Council, Italy)

Su1-4 **14:45-15:00**

High-Efficiency, Few-Cycle Single-Pass Cr: ZnSe Amplification and Spectral Broadening
Fan Yang,Chaoqun Yuan and Ruiqi Wang(Beijing Institute of Technology, China);Wenlong Li(Chengdu Dien Photoelectric Technology Co., Ltd., China);Qing Wang(Beijing Institute of Technology, China)

Su1-5 **15:00-15:15**

Two-Photon Absorption in PbIn6Te10 at 2.05 μm
Valentin Petrov(Max Born Institute, Germany);Xiangran Kong(Harbin Institute of Technology, China);Marcin Piotrowski(Max Born Institute, Germany);Zuotao Lei(Harbin Institute of Technology, China);Dennis Ueberschaer and Martin Bock(Max Born Institute, Germany);Chunhui Yang(Harbin Institute of Technology, China);Uwe Griebner (Max Born Institute, Germany)

Coffee Break

Session Title	Emerging Laser Sources and Amplifiers I
Session Time	15:30-17:00
Session Chair(s)	Liu Wenjun (Beijing Univ. of Posts and Telecommunications, China)

Su1-6 **15:30-16:00**

Optical vs Acoustic Phonons: Linewidth narrowing and frequency noise damping in stimulated scattering lasers (Invited Paper)
Mildren Richard (Macquarie Univ., Australia)

Su1-7 **16:00-16:15**

A compact and fiber-compatible fiber optical parametric oscillator for vibrational imaging
Qingcheng Song,Shun Takahashi,Yifan Ma,Sze Yun Set,Shinji Yamashita and Yasuyuki Ozeki(The Univ. of Tokyo, Japan)

Su1-8 **16:15-16:30**

4.5 kW near-single-mode narrow-linewidth fiber laser enabled by low-NA depressed-cladding fiber
Li Guanzhong,Yan Ping,Yang Yousi,Zhang Yijie,Liao Junyi,Li Dan and Xiao Qirong(Tsinghua Univ., China)

Su1-9 **16:30-16:45**

High-power, Coherent Supercontinuum Generation Spanning from Visible Light to 4.5 μm via a ZBLAN Tapered Fiber pumped by a 2.8 μm mode-locked fiber laser
Xifeng Liu,Sainan Shao,Zeqing Li,Wei Lin,Zhenshuai Wei,Yi Li,Jinxin Zhan,Xinglin Zeng,Zhiyuan Huang,Wenbin He, Meng Pang and Jiapeng Huang(Shanghai Institute of Optics and Fine Mechanics, CAS, China)

Su1-10 **16:45-17:00**

Repetition rate stabilization of a watt-level mid-infrared fiber laser working at 2.8 μm
Cong Jiang and Jiapeng Huang(Shanghai Institute of Optics and Fine Mechanics, CAS, China)

August 3 (Monday)

Session Title	Optical Frequency Comb Sources
Session Time	08:30-10:00
Session Chair(s)	Weidong Chen (Fujian Institute of Research on the Structure of Matter, CAS, China)

Mo1-1 **08:30-09:00**

Real-time Measurements of the Carrier-envelope Phase of cw-Seeded Parametric Frequency Combs (Invited Paper)
Jintao Fan and Wenbin Chen(Tianjin Univ., China);Chao Mei(Ningbo Univ., China);Günter Steinmeyer and Birger Seifert(Max Born Institute for Nonlinear Optics and Short Pulse Spectroscopy, Germany)

Mo1-2 **09:00-09:30**

High-power Thin-disk Frequency Comb (Invited Paper)
Oleg Pronin(Helmut Schmidt Univ., Germany)

Mo1-3 **09:30-09:45**

Single-cavity Dual-comb Generation in a Microresonator-filtered Fiber Laser
Junting Du,Wenxuan Lian,Baicheng Yao,Yunjiang Rao,Mingming Nie and Bowen Li(Univ. of Electronic Science and Technology of China, China)

Mo1-4 **9:45-10:00**

Applications of Optical Frequency Comb Line Extraction Based on Fiber Brillouin Amplification
Yatan Xiong and Jiaqi Zhou(Shanghai Institute of Optics and Fine Mechanics, CAS, China);Yan Feng(Hangzhou Institute for Advanced Study, CAS, China)

Coffee Break

Session Title	Emerging Laser Sources and Amplifiers II
Session Time	10:15-12:00
Session Chair(s)	Günter Steinmeyer (Max Born Institute for Nonlinear Optics and Short Pulse Spectroscopy, Germany)

Mo1-5 **10:15-10:45**

Exploiting the Su(2) Quantum Coupled Oscillator Model to Manifest Laser Transverse Eigenmodes to Geometric Modes (Invited Paper)
Yung-Fu Chen and Hsing-Chih Liang(Yang Ming Chiao Tung Univ., Taiwan, China)

Mo1-6 **10:45-11:15**

The Net-Gain Bandwidth Broadening in Yb-Doped Laser Amplifiers: A Breakthrough for Generating High-Energy Ultrashort Pulses and Their Applications (Invited Paper)
Ivan Buchvarov(Sofia Univ. "St. Kliment Ohridski", Bulgaria)

Mo1-7 **11:15-11:30**

Kerr-lens Mode-locked Yb:LaCOB laser
Huangjun Zeng,Haiyu Nie and Zhanglang Lin(Fujian Institute of Research on the Structure of Matter, CAS, China); Honghao Xu(Qingdao Univ., China);Xavier Mateos(Universitat Rovira i Virgili, Spain);Pavel Loiko(Université de Caen, France);Ge Zhang(Fujian Institute of Research on the Structure of Matter, CAS, China);Valentin Petrov(Max Born Institute for Nonlinear Optics and Short Pulse Spectroscopy, Germany);Weidong Chen(Fujian Institute of Research on the Structure of Matter, CAS, China);Sami Slimi(Universitat Rovira i Virgili, Spain)

Mo1-8 **11:30-11:45**

Single-frequency 509 nm laser with output power of 101.3 W and spectral linewidth of 20.7 kHz
Zuwu Xie,Yan Feng and Xuezong Yang(Hangzhou Institute for Advanced Study, CAS, China)

Mo1-9 **11:45-12:00**

Pump-Cavity Mode Matching for Beam-Quality Optimization in Cascaded Diamond Raman Lasers
Aokun Shi,Hui Chen,Wanxiao Gao,Yulei Wang,Zhiwei Lu and Zhenxu Bai(Hebei Univ. of Technology, China)

Lunch

Session Title	Wavelength Tuning and Conversion Techniques I
Session Time	14:30-16:00
Session Chair(s)	Huadong Lu (Shanxi Univ., China)

Mo1-10 **14:30-15:00**

Raman-enhanced Spectral Compression of High-Energy Femtosecond Laser Pulses in Molecular Gases (Invited Paper)
Wei Cao and Zegui Wang(Huazhong Univ. of Science and Technology, China);Yihao Chen and Frank Wise(Cornel Univ., USA)

Mo1-11 **15:00-15:15**

Multi-wavelength Tunable Single-frequency Er:YAG laser in the 1.6 μm Spectral Band
Weichong Wu, Yusong Jiao, Qi Li, Xianqing Zang and Chunqing Gao(Beijing Institute of Technology, China)

Mo1-12 **15:15-15:30**

Frequency-stabilized, High-Energy Single-Frequency Narrow-Linewidth Nanosecond Laser
Li Jiatong, Yao Bo, Nie Hongkun, Xia Jinbao,Zhang Baitao and Yao Bo(Shandong Univ., China)

Mo1-13 **15:30-15:45**

High Beam Quality Deep-Ultraviolet 193 nm Laser Based on a Pre-Shaping Method
Xinhua Guo, Hetian Yang and Guangzhi Zhu(Huazhong Univ. of Science and Technology, China)

Mo1-14 **15:45-16:00**

16-Watt, 490 nm Femtosecond Laser Driven by Efficient Fourth-Harmonic Generation of a Thulium-Doped Fiber Amplifier
Bo Ren, Can Li, zhenqiang Tang, Zhiwen He, Tao Wang, Yi Zhou, Jinyong Leng and Pu Zhou(National Univ. of Defense Technology, China)

Coffee Break

Session Title	Wavelength Tuning and Conversion Techniques II
Session Time	16:15-17:30
Session Chair(s)	Wei Cao (Huazhong Univ. of Science and Technology, China)

Mo1-15 **16:15-16:45**

Polarization-Controlled Hybrid Cavity for High-Power Narrow-Linewidth Tunable Near-Infrared Laser (Invited Paper)
Huadong Lu,Donglin Cheng,Xuechen Cao,Yanan Chen and Yan Wang (Shanxi Univ., China)

Mo1-16 **16:45-17:00**

Synchronous and Asynchronous Self-Conversion Dynamics of Dual-Wavelength Pulses in Q-Switched Mode-Locking
Yuansheng Ma(Nankai Univ., China)

Mo1-17 **17:00-17:15**

Environmentally-Stable CW-Optical Parametric Oscillator at 4.3 - 4.5 μm for MIR Spectroscopy
Shotaro Kitajima and Norihiko Nishizawa(Nagoya Univ., Japan)

Mo1-18 **17:15-17:30**

Improving the Efficiency of Walk-off Compensating β-BaB2O4 Ultraviolet Wavelength-Conversion Devices Using Room-Temperature Bonding
Ogura Riku,Suga Arata,Naito Shion and Ichiro Shoji(Chuo Univ., Japan)

August 4 (Tuesday)

Session Title	Emerging Fiber Laser Technologies I
Session Time	08:30-10:15
Session Chair(s)	Jianfeng Li (Univ. of Electronic Science and Technology of China, China)

Tu1-1 **08:30-09:00**

Recent Advances In Mode-locked Yb-doped Waveguide Lasers (Invited Paper)
Fabian Rotermund(Korea Advanced Institute of Science and Technology, Korea)

Tu1-2 **09:00-09:15**

Narrow-linewidth 1064 nm Fiber Laser with External Erbium-doped WGM Microresonator
Cheng ZhiPeng,Wei Da,Zhu Tao and Shi Leilei(Chongqing Univ., China)

Tu1-3 **09:15-09:30**

Widely Tunable Dual-Wavelength Thulium-Doped Fluoride Fiber Laser Using a Michelson Interferometer for S-band
Leela Wanti Lohano,Bilal Nizamani,Harith Ahmad and Zarif Samion(Universiti Malaya, Malaysia)

Tu1-4 **09:30-09:45**

Compact Er:KGdW waveguide laser operating near 1.5 μm
Deok Woo Kim, Suk Jung Choi and Seong-Eun Lim(Korea Advanced Institute of Science and Technology, Korea); Xavier Mateos(Universitat Rovira i Virgili, Spain);Carolina Romero and Javier Rodríguez Vázquez de Aldana(Univ. of Salamanca, Spain)

Tu1-5 **09:45-10:00**

Solid-state HO:YLF gradient-doped double-pass hybrid 2.05 μm single-frequency laser amplifier based on Tm-doped fiber preamplifier
Dongming Zhang,Yunpeng Wang and Pingxue Li(Beijing Univ. of Technology, China)

Tu1-6 **10:00-10:15**

High-power Amplification of Vortex Beams in a Ring-core Yb-doped Fiber
Ran Zhao,Lin Yu,Cunjiang Wei,Shan Wang,Jiangli Dong,Jianping Li,Di Lin,Songnian Fu and Yuwen Qin(Guangdong Univ. of Technology, China)

Coffee Break

Session Title	Waveguide-Structured Laser Sources and Amplifiers I
Session Time	10:30-12:00
Session Chair(s)	Fabian Rotermund (Korea Advanced Institute of Science and Technology, Korea)

Tu1-7 **10:30-11:00**

Random Fiber Laser Pumping:Record High Efficiency Mid Infrared Lasing in the 3 μm Water Vapor Transmission Window (Invited Paper)
Luo Hongyu and Jianfeng Li(Univ. of Electronic Science and Technology of China, China)

Tu1-8 **11:00-11:15**

High-peak-power Ultra-narrow Linewidth Pulsed Single-Frequency Fiber Laser Amplifier
Yangyuan Zhang and Yue Tao(National Univ. of Defense Technology, China); Danqing Liu(Sun Yat-sen Univ. , China); Ke Zhao,Pengrui Kang,Xusong Zhang,Jingmiao Wang and Man Jiang(National Univ. of Defense Technology, China); Changlei Guo(Sun Yat-sen Univ., China);Can Li,Jinyong Leng and Pu Zhou(National Univ. of Defense Technology, China)

Tu1-9 **11:15-11:30**

Recent advances in fluoroindate glass fibers
Shijie Jia, Pengfei Wang, Liming Mao, Yu Dong, Zhuowei Cheng and Hanwen Zhang (Harbin Engineering Univ., China)

Tu1-10 **11:30-11:45**

Broadly tunable and high-flatness mid-infrared Er-doped ZBLAN fiber laser pumped at 1650 nm
Shijie Fu,Hongru Zhao,Huanyu Liu,Shuangjiang Li,Quan Sheng,Junxiang Zhang and Lu Zhang(Tianjin Univ., China); Zhidong Yao(HFB Photonics Co. Ltd., China);Wei Shi and Jianquan Yao(Tianjin Univ., China)

Tu1-11 **11:45-12:00**

Single- and dual-wavelength dissipative soliton generation in hybridly mode-locked erbium-doped fiber laser
Almikdad Ismaeel(Moscow Institute of Physics and Technology, Russia);Alexander Krylov(Prokhorov General Physics Institute of the Russian Academy of Sciences, Russia);Elena Obraztsova(Moscow Institute of Physics and Technology, Russia)

Lunch

Poster Session (13:00-14:30)

Session Title	Emerging Fiber Laser Technologies II
Session Time	14:30-15:45
Session Chair(s)	Bhanu Yadav (Indian Institute Of Technology Delhi,India)

Tu1-12 **14:30-15:00**

All-Fiber ~979-nm Oscillator with Suppressed Amplified Spontaneous Emission (Invited Paper)
Qi Zhang, Jianqiu Cao, Shangde Zhou, Maoni Chen, Aimin Liu, Meng Wang, Zhihe Huang, Zefeng Wang, Lei Si and Jinbao Chen(National Univ. of Defense Technology, China)

Tu1-13 **15:00-15:15**

Generation of Tunable Raman Soliton and Dispersive Wave Beyond 4 μm in Fluorotellurite Fibers
Zhenrui Li and Pengfei Wang(Harbin Engineering Univ., China)

Tu1-14 **15:15-15:30**

1.24 GHz All-Polarization-Maintaining Passively Harmonic Mode-Locked Fiber Laser Enabled by Carbon Nanotubes
Lunian Zhang,Yifan Wang and Yuhang Yan(Shanghai Univ., China);Jiaqi Zhou(Shanghai Institute of Optics and Fine Mechanics, CAS, China);Kai Wang,Qianqian Huang and Lilong Dai(Shanghai Univ., China);Haochen Tian (National Institute of Metrology, China);Chengbo Mou(Shanghai Univ., China)

Tu1-15 **15:30-15:45**

Temperature Dependent Nonlinear Optical Properties of Single-walled Carbon Nanotubes Film Saturable Absorber
Yuhang Yan; Kai Wang;Yifan Wang; Lilong Dai; Qianqian Huang; Qiankun Li; Wei Chen; Yunqi Liu; Hairun Guo and Chengbo Mou(Shanghai Univ., China)

Coffee Break

Session Title	Waveguide-Structured Laser Sources and Amplifiers II
Session Time	16:00-17:30
Session Chair(s)	Qi Zhang (National Univ. of Defense Technology, China)

Tu1-16 **16:00-16:30**

Reconfigurable Multimode-Interference Saturable Absorber for 2μm operation (Invited Paper)
Bhanu Yadav and Gayathri Bharathan(Indian Institute Of Technology Delhi,India)

Tu1-17 **16:30-16:45**

Novel CO2 amplifiers pumped by all-solid-state lasers and radio-frequency generators
Zhiyong Li;Mingkun Liu;Changjun Ke;Tan Rongqing and Liemao Hu(Aerospace Information Research Institute, CAS,China)

Tu1-18 **16:45-17:00**

Over 60 W high-power Nd-doped single frequency fiber laser at 922 nm
Yafei Wang(Shanghai institute of optics and fine mechanics,China);Zhiquan Lin(Chengdu Univ. of Information Technology,china);Mengting Guo;Shikai Wang;Chunlei Yu and Lili Hu(Shanghai institute of optics and fine mechanics,China)

Tu1-19 **17:00-17:15**

Development of fiber optofluidic dye laser
Ryszard Buczynski and Mateusz Winkowski(Univ. of Warsaw,Poland); Katarzyna Rechcinska(Institute of Microelectronics and Photonics,Poland);Adam Filipkowsk ;Monika Adamowska;Bartosz Palub;Dariusz Pys and Tadeusz Stacewicz(Univ. of Warsaw-Faculty of Physics,Poland)

Tu1-20 **17:15-17:30**

Efficient ns-pulsed 2.3μm ASE from a cryogenic Tm-doped silica fiber
Jindan Shi and Xian Feng(Jiangsu Normal Univ.,China)

August 5 (Wednesday)

Session Title	Advanced Light Field Manipulation Technologies I
Session Time	08:30-10:00
Session Chair(s)	Zhigang Zhao (Shandong Univ.,China)

We1-1 **08:30-09:00**

Exploration of optical speckle applications (Invited Paper)
Sha Wang(Sichuan Univ.,China)

We1-2 **09:00-09:15**

Non-iterative intracavity adaptive aberration compensation demonstrated in a slab laser with unstable confocal resonator
Boheng Lai, Wenhua Xu, Ping Yang, Chunxuan Su and Lizhi Dong(Institute of Optics and Electronics, CAS, China)

We1-3 **09:15-09:30**

Multi-parameter customization of optical speckles
Rui Sun, Zhenyu Wan and Jian Wang(Huazhong Univ. of Science and Technology,China)

We1-4 **09:30-09:45**

Femtosecond Optical Skyrmions generation with Spin–Orbit Conversion in a Single q-Plate
Yayun Ma,Srinivasa Rao Allam and Takashige Omatsu(Chiba Univ., Japan)

We1-5 **09:45-10:00**

Dynamic Generation of High-Quality Homogenized Spots via Multi-Frequency Control of 2D AODs
Yihang Chu, Jing Ouyang, Shengkai Sun, Haoran Wang, Yangyang Liu and Guangzhi Zhu (Huazhong Univ. of Science and Technology, China)

Coffee Break

Session Title	Advanced Light Field Manipulation Technologies II
Session Time	10:30-12:00
Session Chair(s)	Sha Wang (Sichuan Univ.,China)

We1-6 **10:30-11:00**

High-dimensional OAM comb source (Invited Paper)
Shiyao Fu(Beijing Institute of Technology,China)

We1-7 **11:00-11:30**

Performance comparison of three kinds of schemes for all-solid-state 248 nm source generation (Invited Paper)
Tianxiang Cheng,Zhenhua Cong,Zhaojun Liu and Zhigang Zhao(Shandong Univ.,China)

We1-8 **11:30-11:45**

Bandwidth-Controlled Dynamics of Dissipative Pure- Quartic Solitons in a Mamyshev Oscillator
Yu Yang,Zhizeng Si,Tao Wang,Zhiwen He,Yi Zhou,Bo Ren,Zhenqiang Tang,Can Li,Guangzong Xiao,Jinyong Leng,Pu Zhou and Tao Wang(National Univ. of Defense Technology,China)

We1-9 **11:45-12:00**

All-Fiber Mamyshev Oscillator for Ultrafast Optical Vortex Beam Generation
Shan Wang,Hao He,Zhangxian Dai,Lin Yu,Jiangli Dong,Di Lin,Songnian Fu and Yuwen Qin(Guangdong Univ. of Technology, China)

Lunch

Session Title	Laser Characterization and Modeling
Session Time	13:30-15:15
Session Chair(s)	Jinwei Zhang (Huazhong Univ. of Science and Technology,China)

We1-10 **13:30-14:00**

Pulse-contrast characterization and analysis for laser regenerative amplifiers (Invited Paper)
Jingui Ma(Shanghai Jiao Tong Univ.,China)

We1-11 **14:00-14:30**

Intensity-Noise Characterization and Optimization of a Single-Frequency Diamond Raman Laser (Invited Paper)
Wenqiang Fan, Longjie Zhang, Hui Chen, Jie Ding(Hebei Univ. of Technology,China);Yancheng Guo and Qiunan Yang(China National Nuclear Corporation,China); Yulei Wang,Zhiwei Lu and Zhenxu Bai(Hebei Univ. of Technology, China)

We1-12 **14:30-14:45**

Sub-fs Temporal BOC Synchronization for Solid-State Regenerative Amplifier
Yang Yu, Siyuan Niu, Haowei Yu, Jie Zheng, Geyang Wang, Wenlong Tian and Jiangfeng Zhu(Xidian Univ., China); Zhiyi Wei(Institute of Physics,CAS,China); Tian Wenlong(Xidian Univ.,China)

We1-13 **14:45-15:00**

Comprehensive optimization and nonlinear resonance effects in cavity-enhanced second harmonic generation
Kyeong Jun Moon, Daegun Ryu, Kim Kyungseung, Lee Dal Yong, Kim Youngchan, Kim Hyeonwoo and Changsu Jun (Gwangju institute of science and technology,Korea)

We1-14 **15:00-15:15**

Polarization Characteristics of a Diamond Raman Laser Governed by the Crystal Stress Distribution
Wanxiao Gao, Jiaming Zhang, Yunpeng Cai, Jie Ding, Yulei Wang, Zhiwei Lu and Zhenxu Bai(Hebei Univ. of Technology, China)

Coffee Break

Session Title	High-Power Laser Technology and Applications
Session Time	15:45-17:30
Session Chair(s)	Zhenxu Bai (Hebei Univ. of Technology, China)

We1-15 **15:45-16:15**

High efficiency Extreme-ultraviolet High Harmonic Laser and Applications (Invited Paper)
Jie Li(The Aerospace Information Research Institute,China)

We1-16 **16:15-16:45**

High-Power, High-Repetition-Rate Femtosecond Thin-Disk Oscillators in Fundamental and Vortex Modes (Invited Paper)
Jinwei Zhang(Huazhong Univ. of Science and Technology,China)

We1-17 **16:45-17:00**

Chirality-Tunable Single-Frequency Microchip Vortex Laser
Qingda Wu and Xinran Guo(Beijing Institute of Technology,China); Kunjian Dai(The Chinese Univ. of Hong Kong, Shatin, Hong Kong, China); Qing Wang(Beijing Institute of Technology, China)

We1-18 **17:00-17:15**

Generating optical skyrmions via a solid-state laser
Haojun Zhang, Zhichao Zhang, Chunqing Gao and Shiyao Fu(Beijing Institute of Technology,China)

We1-19 **17:15-17:30**

Wavefront pre-compensated laser amplifier for structured light amplification
Yuan-Yao Lin, Cheng-Yu Su, Si-Lin Chen, Yu-Wei Huang, Pei-Chi Tsi,Chao-Kuei Lee and Wei-Chung Lin (Taiwan Sun Yat-Sen Univ.,Taiwan, China);Ming-Chi Chou(Cheng Kung Univ.,Taiwan, China); Saulius Tumėnas,Sergej Orlov,Simonas Indrišiūnas and Evelina Dudutienė(Center for Physical Sciences and Technology , Lithuania)

C02

Ultrafast and Nonlinear Phenomena

Conference Room: ROOM 310

Conference Date: Aug.2 (Sun.)-Aug.4 (Tue.)

Co-chairs

Yunquan Liu (Peking Univ., China)
Kyung Taec Kim (Institute for Basic Science, Korea)
Jiro Itatani (T Univ. of Tokyo, Japan)

Members

Chuanshan Tian (Fudan Univ., China)
Pengfei Lan (Huazhong Univ. of Science and Technology, China)
Hui Liu (Nanjing Univ., China)
Zhi-Heng Loh (Nanyang Technological Univ., Singapore)
Ngoc-Loan Phan (Ho Chi Minh City Univ. of Education, Vietnam)
Gopal Dixit (Indian Institute of Technology, India)
Tran Trung Luu (The Univ. of Hong Kong, Hong Kong, China)
Dangyuan Lei (City Univ. of Hong Kong, Hong Kong, China)
Marcelo Ciappina (Guangdong Technion-Israel Institute of Technology, China)
Shambhu Ghimire (SLAC National Accelerator Laboratory, USA)

August 2 (Sunday)

Session Title	Ultrafast Lasers and Amplifiers, Ultrafast Optical Parametric Oscillators/Amplifiers I
Session Time	13:30-15:00
Session Chair(s)	Hui Liu (Nanjing Univ., China)

Su2-1 **13:30-14:00**

Structuring electron dynamics with tailored light (Invited Paper)
Yiqi Fang and Yunquan Liu(Peking Univ., China)

Su2-2 **14:00-14:15**

A Femtosecond Optical Parametric Oscillator Based on A Temperature-Chirped Crystal
Mengke Qin,Songyin Yu,Zhenyu Yang,Chaolu Yuan,Wei Wang and Zhaowei Zhang(Huazhong Univ. of Science and Technology, China)

Su2-3 **14:15-14:30**

Dynamic Switching between Pure-quartic Noise-like Pulses and Q-switched Mode-Locking in a Fiber Laser
Gan Luo,Yufeng Song,Jun Liu and Zhenhong Wang(Shenzhen Univ., China)

Su2-4 **14:30-14:45**

Fractional Cubic Solitons in a Fiber Laser
Trong Thuy Ha,Liu Wenhao,Silvestri Carlo,Runge Antoine F.J and de Sterke Martijn(The Univ. of Sydney, Australia)

Su2-5 **14:45-15:00**

Revealing complex pulsation to chaos dynamics of spatiotemporal soliton molecules
Zhou Yi,Li Can,He Zhiwen,Ren Bo,Tang Zhenqiang,Wang Tao,Leng Jinyong and Zhou Pu(National Univ. of Defense Technology, China)

Coffee Break

Session Title	Ultrafast lasers and amplifiers, ultrafast optical parametric oscillators/amplifiers II
Session Time	15:30-17:15
Session Chair(s)	Phan Ngoc-Loan (Ho Chi Minh City Univ. of Education, Vietnam)

Su2-6 **15:30-16:00**

Free-electron radiation from highly correlated electrons (Invited Paper)
Xihang Shi(Sun Yat-sen Univ., China)

Su2-7 **16:00-16:15**

Sub-50-fs Optical Vortex Pulse Generation in a Few-Mode Fiber Amplifier
Lin Yu,Chao Yuan,Cunjiang Wei,Shan Wang,Jiangli Dong,Di Lin,Songnian Fu and Yuwen Qin(Guangdong Univ. of Technology, China)

Su2-8 **16:15-16:30**

2.9 μm mid-infrared ultrafast optical parametric amplifier
Ying Chen, Pengyuan Wang, Longhui Dai ,Rui Liu, Jinbo Liu, Xiang Li, Fei Teng and Gang Li(Dalian Institute of Chemical Physics, CAS, China)

Su2-9 **16:30-16:45**

Temporal fractional solitons in mode-locked fiber lasers
Luo Wenbin and Zhou Renlai(Harbin Engineering Univ., China)

Su2-10 **16:45-17:00**

109 MHz, 71 fs pulse generation from an all-PM erbium-doped fiber oscillator
Min Li and Renlai Zhou(Harbin Engineering Univ., China)

Su2-11 **17:00-17:15**

High-power mid-infrared ultrafast soliton molecules
Guangzi Feng and Xiyue Zhang(Shanghai Institute of Optics and Fine Mechanics, CAS, China); Weibo Wu and Gianluca Galzerano(Politecnico di Milano, Milano, Italy); Yiguang Jiang,Long Zhang and Yuchen Wang(Shanghai Institute of Optics and Fine Mechanics, CAS, China)

August 3 (Monday)

Session Title	Nonlinear/Ultrafast Spectroscopy, Imaging and Methodology
Session Time	08:30-10:00
Session Chair(s)	Xihang Shi (Sun Yat-sen Univ., China)

Mo2-1 **8:30-9:00**

Quantum-Enhanced Spectroscopy of Molecular Excited-State Dynamics with Correlated Photons(Invited Paper)
Zhedong Zhang(City Univ. of Hong Kong, Hong Kong, China)

Mo2-2 **9:00-9:15**

Supercontinuum Generation in Silicon Nitride Waveguide and Application in Gas Detection
Lingfang Wang and Xiang Bai(Univ. of Electronic Science and Technology of China, China) ;Guanyu Chen(Chongqing Univ., China)

Mo2-3 **9:15-9:30**

Terahertz-Field-Dependent Orbital-Symmetry Imprints on Extended High-Order Harmonic Generation from Molecules
Doan-An Trieu(Duy Tan Univ., Vietnam); Duong Dai Hoang-Trong(Van Lang Univ., Vietnam); Cam-Tu Le(Ton Duc Thang Univ., Vietnam); Van-Hoang Le and Ngoc-Loan Phan(Ho Chi Minh City Univ. of Education, Vietnam)

Mo2-4 **9:30-9:45**

Establishment dynamics of heteronuclear soliton molecules in a dual-cavity mode-locking fiber laser
Zhu Wei,Wang Shaokai,Zhang Chuhui and Liu Xueming(Southeast Univ., China)

Mo2-5 **9:45-10:00**

High-Magnification Asynchronous Time Lens System
Shaokai Wang, Hehong Fan, Chun Yang and Xueming Liu(Southeast Univ., China)

Coffee Break

Session Title	Novel Nonlinear Processes and Strong-Field Processes
Session Time	10:15-11:45
Session Chair(s)	Zhedong Zhang (City Univ. of Hong Kong, Hong Kong, China)

Mo2-6 **10:15-10:45**

Symmetry-Controlled Sub-Cycle Dynamics in High-Harmonic Generation(Invited Paper)
Ngoc-Loan Phan(Ho Chi Minh City Univ. of Education, Vietnam), Doan-An Trieu,Nguyen Kim-Ngan H.(Duy Tan Univ., Vietnam), Hoang-Trong Duong D.(Van Lang Univ., Vietnam), Tran Thanh(Ho Chi Minh City Univ. of Education, Vietnam), Le Cam-Tu(Ton Duc Thang Univ., Vietnam), Le Van-Hoang(Ho Chi Minh City Univ. of Education, Vietnam)

Mo2-7 **10:45-11:00**

Pulse Cumulative Effects on Nonlinear Radiation in High-Repetition-Rate Femtosecond Laser Filamentation
CHAOPENG YANG, Tie-jun Wang and Yaoxiang Liu(Shanghai Institute of Optics and Fine Mechanics, CAS, China)

Mo2-8 **11:00-11:15**

The influence of DC electric field-enhanced ionization on the self-focusing of femtosecond lasers
Ying Xu and Zheyuan Hou(Shanghai Institute of Optics and Fine Mechanics, CAS, China),Zheng Sun(Army Engineering Univ. of PLA, China),kiqbal javed,Xianwang Li,Yaoxiang Liu,Yingxia Wei,Tie-Jun Wang and Yuxin Leng (Shanghai Institute of Optics and Fine Mechanics, CAS, China)

Mo2-9 **11:15-11:30**

Power enhancement of extreme ultraviolet high-harmonic generation via cryogenic cooling of solid-state medium
Yungeun Oh, Jungyoon Kim, Seungjai Won, Seonho Son, Hwang Jeongil and Young-Jin Kim(Korea Advanced Institute of Science and Technology, South Korea)

Mo2-10 **11:30-11:45**

Hydrogen Molecular Dissociation Driven by Quantum Light
Xiaoxiao Long and Yunquan Liu(Peking Univ., China)

Lunch

Session Title	Nonlinearity in Micro- and Nano-photonic Structure
Session Time	13:30-15:15
Session Chair(s)	Yiqi Fang (Peking Univ., China)

Mo2-11 **13:30-14:00**

Broadband nonlinear optical devices based on conformal transformation method (Invited Paper)
Hui Liu(Nanjing Univ., China)

Mo2-12 **14:00-14:15**

10-MW-Level, Compact and Efficient Deep-Ultraviolet Generation in a Resonance-Free Hollow-Core Fiber
Daiqi Xiong(Beihang Univ., China),Ruhai Bai,Yuxi Wang and Wonkeun Chang(Nanyang Technological Univ., Singapore, Singapore)

Mo2-13 **14:15-14:30**

High-harmonic generation driven by spatiotemporal light field
Jingze Li and Yunquan Liu(Peking Univ., China)

Mo2-14 **14:30-14:45**

Extension of the High-Order Harmonic Plateau to the X-Ray Region via Long Electron Trajectories Driven by Moderate Terahertz Fields
Doan-An Trieu(Duy Tan Univ., Vietnam, Vietnam),Van-Hoang Le and Ngoc-Loan Phan(Ho Chi Minh City Univ. of Education, Vietnam)

Mo2-15 **14:45-15:00**

Bloch Oscillations in a Synthetic Frequency Dimension Induced by Phase-Mismatched Forward-Brillouin Multiple-Wave-Mixing
Yufan Ning,Jiuming Zhao,Wenbin He and Jiapeng Huang(Russell Centre for Advanced Lightwave Science, China),Zhiyuan Huang(Shanghai Institute of optics and fine mechanics, CAS, China),Jinxin Zhan,Xin Jiang and Meng Pang(Russell Centre for Advanced Lightwave Scienc, China),Long Zhang(Shanghai Institute of optics and fine mechanics, CAS, China),Xinglin Zeng(Russell Centre for Advanced Lightwave Science, China)

Mo2-16 **15:00-15:15**

O-band Brillouin-Kerr frequency comb generation in a silica microsphere resonator
Doudou Feng,Weiquan Zhu,Jiamin Bai,Suwan Sun and Hairun Guo(Shanghai Univ., China)

Coffee Break

Session Title	Ultrafast Nano-photonics and Plasmonics
Session Time	15:45-17:30
Session Chair(s)	Dangyuan Lei (City Univ. of Hong Kong, China)

Mo2-17 **15:45-16:15**

Control of ultrafast non-equilibrium processes in semiconductors (Invited Paper)
Linjie Dai(Peking Univ., China)

Mo2-18 **16:15-16:30**

Sequential momentum and frequency conversion in a nonlocal optical metasurface under two-pump modulation
Daniil Shilkin,Ramon Paniagua-Dominguez,Son Tung Ha and Arseniy Kuznetsov(Agency for Science, Technology and Research, Singapore)

Mo2-19 **16:30-16:45**

On-chip Network of Intraresonance Degenerate Optical Parametric Oscillators as a Coherent Ising Machine
Alexey Dushanin,Andrei Danilin,Timur Yunusov,Ekaterina Vakhnitskaya,Maxim Galkin,Aleksey Ivanov,Igor Bilenko and Dmitry Chermoshentsev(Russian Quantum Center, Russia)

Mo2-20 **16:45-17:00**

Efficient and high contrast femtosecond 11-eV beamline via annular beam shaping of 343 nm driver pulses
Yimin Gu,Tomoyuki Shoji,Tomoya Mizuno,Elizaveta Pyatenko,Takayuki Kurihara,Teruto Kanai and Jiro Itatani(The Univ. of Tokyo, Japan)

Mo2-21 **17:00-17:15**

Self-Seeded Four-Wave Mixing in Antiresonant Hollow-Core Fiber for Efficient Mid-Infrared Generation
Ruhai Bai and Trivikramarao Gavara(Nanyang Technological Univ., Singapore);Daiqi Xiong(Beihang Univ., China);Yuxi Wang,Kevin Hean,Charu Goel,Wonkeun Chang and Wonkeun Chang(Nanyang Technological Univ., Singapore)

Mo2-22 **17:15-17:30**

Resonant Phase-Locked and π-Flipping Solitons in a Degenerate Parametrically Driven Kerr Cavity
Clement Dupont,Yifan Sun and Georges Semaan(Université libre de Bruxelles, Belgium);Francesco De Lucia(Université de Lille, France);Nicolas Englebert(California Institute of Technology, USA);Simon Pierre Gorza,Serge Massar,Francois Leo and Thomas Bunel(Université libre de Bruxelles, Belgium)

August 4 (Tuesday)

Session Title	Novel Nonlinear Optical Materials and Devices
Session Time	14:30-16:45
Session Chair(s)	Linjie Dai (Peking Univ., China)

Tu2-1 **14:30-15:00**

Ultrafast spectroscopy of nanocavity-manipulated valley polarization and dark-exciton dynamics (Invited Paper)
Dangyuan Lei(City Univ. of Hong Kong, China)

Tu2-2 **15:00-15:15**

Replica Symmetry Breaking in Q-Switched Mode-Locked Lasers
Zhenghu Chang,Tianhao Xian,Chenxiao Hao,Yahan Du and Li Zhan(Shanghai Jiao Tong Univ., China)

Coffee Break

Tu2-3 **15:45-16:00**

Real-Time Monitoring and Stabilization of the Harmonic Mode-Locking in Fiber Lasers
Zhongyi Zhang,Tianhao Xian and Li Zhan(Shanghai Jiao Tong Univ., China)

Tu2-4 **16:00-16:15**

Observation of States Switching of bi-stable (2+2)-Soliton Molecular Complex in a Mode-locked Fiber Laser through Pump Perturbation
Tang Xiaogang,Zhang Xintong,He Wenbin,Huang Qi,Fan Siqi,Wang Benhai,Lin Haochen,Wang Xiaocong and Pang Meng(Shanghai Institute of Optics and Fine Mechanics;Hangzhou Institute of Optics and Fine Mechanics, CAS, China)

Tu2-5 **16:15-16:30**

Ultrafast nonlinear optical response of β-Ga2O3 single crystal in near-infrared regime
Zhongguo Li,Jiatong Wu,Yu Chen and Haishuang Lu(Suzhou Univ. of Technology, China); Yinglin Song (Harbin Institute of Technology-School of Physics, China)

Tu2-6 **16:30-16:45**

Fabrication of Quasi-phase-matched ZnSe Mid-IR Wavelength-conversion Devices by Use of Room-temperature Bonding
Tokifumi Otani,Shoji Ichiro,Daiki Sato and Keita Nakamura(Chuo Univ., Japan)

C03

Infrared and Terahertz Technologies and Applications

Conference Room: ROOM 311A

Conference Date: Aug.5 (Wed.)-Aug.5 (Wed.)

Co-chairs

Rongbin Ji (Kunming Institute of Physics, China)
Lorenzo Faraone (The Univ. of Western Australia,Australia)
Libin Yao (Kunming Institute of Physics, China)

Members

Wen Lei (The Univ. of Western Australia, Australia)
Weida Hu (Shanghai Institute of Technical Physics of Chinese Academy of Sciences, China)
Baolai Liang (Univ. of California at Los Angeles, United States)
Wang Qijie (Nanyang Technological Univ., Singapore)
Lan Fu (The Australian National Univ., Australia)
Jun Zhao (Kunming Institute of Physics, China)

August 5 (Wednesday)

Session Title	Terahertz Technologies
Session Time	08:30-10:15
Session Chair(s)	Libin Yao (Kunming Institute of Physics,China)

We3-1 **8:30-9:00**

Quantum Cascade Lasers and Their Prospects for Applications (Invited Paper)
Junqi Liu(Ocean Univ. of China,China)

We3-2 **9:00-9:15**

Staged-Annealing Topology Optimization for Inverse Design of Terahertz Perfect Vortex Beam Emitters
Faqian Chong,Yulun Wu,Hongsheng Chen and Song Han(Zhejiang Univ.,China)

We3-3 **9:15-9:30**

Observation of Ultrafast Phase Transition of Manganites Induced by Intense Terahertz Radiation
Chaeyoon Kim(Korea Advanced Institute of Science and Technology,Korea);Jeonghoon Kim and Jae-woo Han(Ulsan National Institute of Science and Technology,Korea);Hyoung-Taek Lee(Pohang Univ. of Science and Technology,Korea);Changhee Sohn and Hyeong-Ryeol Park(Ulsan National Institute of Science and Technology,Korea);Fabian Rotermund(Korea Advanced Institute of Science and Technology,Korea)

We3-4 **9:30-9:45**

Electrostatic Control of Terahertz High-Harmonic Generation in Turbostratically Stacked Graphene
Seong Cheol Lee, Donghak Oh,Soojeong Baek, Bumki Min and Fabian Rotermund(Korea Advanced Institute of Science and Technology,Korea)

We3-5 **9:45-10:00**

Fabrication of quasi-phase-matched GaAs multiple-plate structures for terahertz wave generation pumped with a CO_2 laser
Yuta Kuramoto and Hideaki Ikeura(Chuo Univ., Japan);Hiroaki Minamide(RIKEN, Japan);Ichiro Shoji(Chuo Univ., Japan)

We3-6 **10:00-10:15**

3D-Printed Compact Multi-Core Waveguides for Terahertz Integrated Systems
Mengqin Gu and Qigejian Wang(Univ. of New South Wales, Australia); Sining An(Ericsson,China); Haisu Li(Beijing Jiaotong Univ.,China); Heike Ebendorff-Heidepriem(Univ. of Adelaide, Australia); Shaghik Atakaramians(Univ. of New South Wales, Australia)

Coffee Break

Session Title	Terahertz Technologies and Applications
Session Time	10:45-12:15
Session Chair(s)	Libin Yao (Kunming Institute of Physics,China)

We3-7 **10:45-11:15**

Threshold Effects and Optimization of Terahertz Spintronic Emission in Co/Pt and 2D Material–Based Hybrid Heterostructures (Invited Paper)
Arseniy Buryakov and Anastasiya Gorbatova(MIREA - Russian Technological Univ., Russia);Nikita Gusev and Ma xim Sapozhnikov(Institute for Physics of Microstructures RAS, Russia);Elena Mishina(MIREA - Russian Technological Univ., Russia);Vladimir Preobrazhensky(Prokhorov General Physics Institute of RAS;MIREA - Russian Technological Univ., Russia)

We3-8 **11:15-11:30**

SNR Enhancement of THz-TDS Spectra for Metamaterial Characterization Using Cycle-GAN
MINSOO PARK(Chonnam National Univ.,Korea);PARK WOONGKYU(Korea Photonics Technology Institute,Korea);PARK JIDAM and JOONGWOOK LEE(Chonnam National Univ.,Korea)

We3-9 **11:30-11:45**

Reversible Polarization Control and Intrinsic Terahertz Optical Anisotropy in Ti3C2Tx MXene Nanoplates
Eon-Taek Oh, Sieun Jeon, Seong-Eun Lim, Dong Ki Yoon and Fabian Rotermund (Korea Advanced Institute of Science and Technology,Korea)

We3-10 **11:45-12:00**

High-Degree-of-Freedom Dielectric Metagrating for Adaptive Terahertz Trace Molecular Fingerprint Sensing
Dan Meng,Changsheng Shen,Hehong Fan,Changgui Lu,Ningfeng Bai,Qilong Wang and Zhaofu Chen(Southeast Univ., China)

We3-11 **12:00-12:15**

Microcomb-Enabled Efficient Pilot Strategy for Phase Noise Limited Terahertz OFDM
Bowen Liu and Takasumi Tanabe(Keio Univ., Japan)

Lunch

Session Title	Infrared Detection Technologies
Session Time	13:30-15:30
Session Chair(s)	Wen Lei (The Univ. of Western Australia, Australia)

We3-12 **13:30-14:00**

Research on Multifunctional Infrared Detection Technology Using Narrow Bandgap Materials (Invited Paper)
Jun Wang and Jiayue Han(Univ. of Electronic Science and Technology,China)

We3-13 **14:00-14:30**

Research on digitization of infrared focal plane based on multi-mode incremental Sigma-Delta ADC (Invited Paper)
Zhu Xunyi,Wang Hongyi,Zhang Yongkang,Fu Jiakai,Peng Zhenghua,Jing Song,Shao Xiumei and Huang Songlei(Shanghai Institute of Microsystem and Information Science, CAS, China)

We3-14 **14:30-14:45**

High-Quality InAs/GaSb Superlattices via Optimized MBE for Mid-Wave/Mid-Wave Dual-Band Infrared Detection
Zekun Chen, Jixing Yang, Weiqiang Chen, Lidan Lu, Mingli Dong and Lianqing Zhu (Beijing Information Science and Technology Univ., China)

We3-15 **14:45-15:00**

High-quality mid-wave infrared HgCdSe grown on GaSb substrates with molecular beam epitaxy
Zekai Zhang(Jiangnan Univ.,China;Univ. of Western Australia, Australia);Wen Lei(Univ. of Western Australia, Australia)

We3-16 **15:00-15:15**

Optimal Design of a Cold Shield Support Structure for Infrared Detectors Based on Topology Optimization
Cheng Zhu,Wei Deng,Minjie Zhao,Yuan Zhang,Wenyi Xu,Jiangtao Tan,Yu Yang,Qianhe Wei,Jing Wang and Jun Chen(Kunming Institute of Physics,China)

We3-17 **15:15-15:30**

High-Order Mid-Infrared Edge-Enhanced Upconversion Imaging
Jixi Zhang,Kun Huang,Shina Liao,Zhuohang Wei,Jianan Fang,Heping Zeng and Kun Huang(East China Normal Univ.,China)

Coffee Break

Session Title	Infrared Applications
Session Time	16:00-18:15
Session Chair(s)	Wen Lei (The Univ. of Western Australia, Australia)

We3-18 **16:00-16:30**

Physical Degradation Driven Dual-Band Infrared Image Super-Resolution Reconstruction Network (Invited Paper)
Mingdong Jia and Canbing Zhao (Kunming Institute of Physics,China)

We3-19 **16:30-16:45**

Weak-Signal Deep-Space Detection
Fang Wang(Shanghai Institute of Technical Physics,CAS,China)

We3-20 **16:45-17:00**

A Microscale Photoacoustic Spectroscopy with Integrated Resonant Cavity and Piezoelectric Cantilever for ppb-level CO_2 Tracing
Yujie Wei,Zeru Wang,Yawen Zheng,Hao Zhang and Weiwei Cui(Tianjin Univ.,China)

We3-21 **17:00-17:15**

In-Process Thickness Monitoring in Wafer Thinning Using NIR Interferometric Spectroscopy
Zizheng Wang and Chunguang Hu(Tianjin Univ.,China)

We3-22 **17:15-17:30**

High-speed mid-infrared time-stretch spectroscopy system for the analysis of component change in combustion process
Haozhe Guo,Cong Jiang,Meng Pang and Jiapeng Huang(Shanghai Institute of Optics and Fine Mechanics,CAS;Hangzhou Institute of Optics and Fine Mechanics,China)

We3-23 **17:30-17:45**

Compact Tapered-fiber Near-Infrared Upconversion Spectrometer with Machine Learning
Yongshuai Li,Zehuan Zheng and Jinhui Chen(Xiamen Univ.,China)

We3-24 **17:45-18:00**

Mid-Infrared Sub-Pixel Temporal Ghost Imaging
Wen Zhang,Kun Huang,Jianan Fang,Yijing Li,Xu Wang and Heping Zeng(East China Normal Univ.,China)

We3-25 **18:00-18:15**

Physics-Aware Transformer for Robust Infrared Small-Target Tracking
Bing Feng,Yixin Xu,Shuangmeng Gao,Shiwei Wang(Yunnan North Optoelectronic Instrument Co., Ltd., China)

C04

High Power, High Energy Lasers

Conference Room: ROOM 311B

Conference Date: Aug.2 (Sun.)-Aug.4 (Tue.)

Co-chairs

Yuxin Leng (Shanghai Institute of Optics and Fine Mechanics CAS, China)
Hongjin Kong (Korea Advanced Institute of Science and Technology, Korea)
Hiromitsu KIRIYAMA (QST-KPSI, Japan)

Members

Bakule Pavel (ELI-Beamlines, Czech)
KyungTaek Kim (Gwangju Institute of Science and Technology, Korea)
Zhaoyang Li (Shanghai Institute of Optics and Fine Mechanics CAS, China)
Hitoki Yoneda (The Univ. of Electro-Communications, Japan)
Yuxi Fu (Xi'an Institute of Optics and Precision Mechanics CAS, China)
Houkun Liang (Sichuan Univ., China)
Ping Li (Research Center of Laser Fusion CAEP, China)
Jinguang Wang (Institute of Physics CAS, China)
Ulrich Schramm (Helmholtz-Zentrum Dresden-Rossendorf, Germany)

August 2 (Sunday)

Session Title	Intense laser and Applications I
Session Time	13:30-15:00
Session Chair(s)	Zhaoyang Li (Shanghai Institute of Optics and Fine Mechanics, China)

Su4-1 **13:30-14:00**

Commissioning progress on the high energy DPSSL pump for the Extreme Photonics Application Centre: a 10 Hz, PW-class facility (Invited Paper)
Rajan Mistry, Gary Quinn, Danielle Clarke, Luke McHugh, Agnieszka Wojtusiak, Mariastefania De Vido and Paul Mason(STFC Rutherford Appleton Laboratory, UK);Daniel Esser(Heriott-Watt Univ., UK)

Su4-2 **14:00-14:30**

Ultrahigh contrast PW-class laser with a mJ-class femtosecond parametric seeder for user experiments (Invited Paper)
Nagymihaly Roland S(ELI ALPS, Hungary);Maksimenka Raman, Alexandridi Christina and Armier David(Amplitude, France);Pajer Viktor, Lehotai Levente, Csernus-Lukacs Nora, Bohus Janos, Borzsonyi Adam and Kalashnikov Mikhail(ELI ALPS, Hungary)

Su4-3 **14:30-14:45**

High Power Kilohertz Thin Disk Amplifier Delivering Ultrafast Pulse of 616 mJ and 586 fs for OPCPA Application
Huang Zhou(Institute of Physics, CAS, China);Renchong Lv, Lei Feng, Sen Tian, Jiangfan Pan, Yong Zhen and Peng He(Songshan Lake Materials Laboratory, China);Wenlong Tian and Jiangfeng Zhu (Xidian Univ., China);Xinkui He and Zhiyi Wei(Institute of Physics, CAS, China)

Su4-4 **14:45-15:00**

TW-scale 1.8-cycle 2.8 μm pulses generated by spectrally temporally cascaded optical parametric amplification
Tongyu Feng, Hao Yuan, Tianzhi Guo, Pei Huang, Huabao Cao and Yuxi Fu(Xi'an Institute of Optics and Precision Mechanics, CAS, China)

Coffee Break

Session Title	Intense laser and Applications II
Session Time	15:30-17:00
Session Chair(s)	Rajan Mistry (STFC Rutherford Appleton Laboratory, UK)

Su4-5 **15:30-16:00**

Spatio-temporal synchronization of PW laser beams for strong-field QED experiments (Invited Paper)
Taeyong Kwon, Seong Cheol Park, Kyung Hoon Yeom, Jaewon Lim, Hyeon Kim, Jin Woo Yoon, Sung In Hwang, Jae Hee Sung and Kyung Taec Kim (Institute for Basic Science-Center for Relativistic Laser Science, Korea)

Su4-6 **16:00-16:30**

Introduction to the SECUF pw laser user facility and experimental progress (Invited Paper)
Jinguang Wang, Yifei Li, Xin Lu and Yutong Li (Institute of Physics, CAS, China)

Su4-7 **16:30-16:45**

High-Energy Near-Infrared Laser Source Based on a Three-Stage OPA and Its Application in Broadband Terahertz Generation
Jin Peng, JingGuang Wang, Ran Yan, GuoQian Liao and YuTong Li (Institute of Physics, CAS, China)

Su4-8 **16:45-17:00**

High-power 195 nm femtosecond pulse generation based on a 1.5 μm chirped pulse amplification system
Kai Wang, Jintao Fan, Yanqing Shi, Bowen Liu and Minglie Hu (Tianjin Univ., China)

August 3 (Monday)

Session Title	High-energy high-power lasers
Session Time	08:30-10:00
Session Chair(s)	Veisz Laszlo (Umea Univ., Sweden)

Mo4-1 **08:30-09:00**

Potential of Cryogenic Yb:YLF Lasers as Next-Generation Fusion Drivers (Invited Paper)
Mikhail Pergament, Martin Kellert, Alexey Yakovlev, Christian Rentschler, Jingyi Cui and Franz Kärtner (Deutsches Elektronen-Synchrotron, Germany)

Mo4-2 **09:00-09:30**

Coherent Beam Combination by Stimulated Brillouin Scattering – Phase Conjugation Mirrors (SBS-PCM) for next generation high power laser (Invited Paper)
Hong Jin Kong and Tae Jun Yu (Handong Global Univ., South Korea)

Mo4-3 **09:30-09:45**

Intracavity Beam Shaping via Phase-Conjugate Mirror for High-Energy Square Flattop Output
Xiaoju Wang(Tsinghua Univ., China)

Mo4-4 **09:45-10:00**

Thermal Issues in High-Repetition-Rate SBS Pulse Compression
Hongli Wang, Linlong Shao, Jun Zhang and Linwei Wu (North Univ. of China, China)

Coffee Break

Session Title	High-intensity high-power lasers
Session Time	10:30-12:00
Session Chair(s)	Zhaoyang Li (Shanghai Institute of Optics and Fine Mechanics CAS, China)

Mo4-5 **10:30-11:00**

Near-single-cycle 100 TW pulse synthesis (Invited Paper)
Laszlo Veisz (Umea Univ., Sweden)

Mo4-6 **11:00-11:30**

Recent progress on quasi-parametric amplification (Invited Paper)
Jingui Ma (Shanghai Jiao Tong Univ.,China)

Mo4-7 **11:30-11:45**

High-Intensity Mid-Infrared Ultrashort Lasers
Renyu Feng, Yujie Peng, Yanyan Li, Wenkai Li, Tianshun Sun, Yinuo Guo, Yuxin Leng, Ruxin Li and Junyu Qian (Shanghai Institute of Optics and Fine Mechanics, CAS, China)

Mo4-8 **11:45-12:00**

Selective Tissue Ablation Using MIR Femtosecond Laser Delivered via Anti-Resonant Hollow-Core Fibers
Ang Deng, Xuemei Yang, Dunxiang Zhang, Zhizhuo Fu, Junbo Zhao and Houkun Liang (Sichuan Univ., China)

Lunch

Session Title	High-intensity High-power lasers
Session Time	13:30-15:00
Session Chair(s)	Xingkui He (Institute of Physics, CAS, China)

Mo4-9 **13:30-14:00**

Beyond 100 petawatt laser and related technology developments (Invited Paper)
Zhaoyang Li(Shanghai Institute of Optics and Fine Mechanics, CAS, China)

Mo4-10 **14:00-14:30**

A few-cycle OPCPA system with above 50W output at 1 kHz repetition rate (Invited Paper)
Yudong Yang, Ziruo Cui, Gangzheng Liu, Shanguang Zheng, Chen Si, Guangjin Ma, Luning Su, Xianzhi Wang, Yitan Gao and Xinkui He (Songshan Lake Materials Laboratory, China)

Mo4-11 **14:30-14:45**

CEP control in few-cycle femtosecond beam combination and optical parametric amplification of ultrabroad band chirped laser pulses
Xinglong Xie, Xiao Liang, Meizhi Sun, Xuejie Zhang, Ping Zhu and Yanjia Zhang (Shanghai Institute of Optics and Fine Mechanics, CAS, China)

Mo4-12 **14:45-15:00**

Octave supercontinuum pulse amplification in a chirped periodically poled lithium niobate
Qian Junyu, Feng Renyu, Li Yanyan, Sun Tianshun, Peng Yujie and Leng Yuxin (Shanghai Institute of Optics and Fine Mechanics, CAS, China)

Coffee Break

Session Title	High-intensity high-power lasers
Session Time	15:30-17:30
Session Chair(s)	Yudong Yang (Songshan Lake Materials Laboratory, China)

Mo4-13 **15:30-16:00**

Lasers for Advanced Attosecond Laser Infrastructure (Invited Paper)
Xinkui He(Institute of Physics, CAS, China)

Mo4-14 **16:00-16:30**

High power all solid state femtosecond laser technology and cutting-edge applications (Invited Paper)
Tian Wenlong and Zhu Jiangfeng(Xidian Univ., China)

Mo4-15 **16:30-17:00**

High energy sub-2-cycle pulses at 2.1 μm by spectrally temporally cascaded optical parametric amplification (Invited Paper)
Hao Yuan, Tongyu Feng, Tianzhi Guo, Pei Huang, Huabao Cao and Yuxi Fu (Xi'an Institute of Optics and Precision Mechanics, CAS, China)

Mo4-16 **17:00-17:15**

Compact, Passively CEP-Stabilized Few-Cycle Near-Infrared NOPA System at High Repetition Rates
Yahui Ma, Hao Yuan, Pei Huang, Tongyu Feng, Tianzhi Guo and Yuxi Fu (Xi'an Institute of Optics and Precision Mechanics, CAS, China)

Mo4-17 **17:15-17:30**

High Energy and High-peak Power of Short-wave Infrared Laser
Tianshun Sun, Junju Qian, Renyu Feng, Yanyan Li, Yujie Peng, Yuxin Leng and Junyu Qian (Shanghai Institute of Optics and Fine Mechanics, CAS, China)

August 4 (Tuesday)

Session Title	Mid-Infrared High-power lasers
Session Time	08:30-10:00
Session Chair(s)	Yasuhara (National Institute for Fusion Science, Japan)

Tu4-1 **08:30-09:00**

Advances in Mid-Infrared Fe:ZnSe CPA Systems and Their Prospects for Relativistic High-Harmonic Generation (Invited Paper)
Shigeki Tokita, Isshin Ueta, Yasuaki Kishimoto, Daiki Okazaki and Yuri Kirita (Kyoto Univ., Japan); Ryutaro Matsui, Linpeng Yu and Ryo Yasuhara (National Institute for Fusion Science, Japan)

Tu4-2 **09:00-09:30**

High Power 2 μm Lasers from Bulk to Thin-Disk Geometry (Invited Paper)
Weichao Yao and Yuxin Leng (Shanghai Institute of Optics and Fine Mechanics, CAS, China)

Tu4-3 **09:30-09:45**

485-W, 20-ns, 2.05-μm Ho:YLF laser operating at 1 kHz based on polarization beam combining
Yuchun Liu, Enhao Li, Panqiang Kang, Weichao Yao, Yujie Peng, Yuxin Leng and Zhizhan Xu (Shanghai Institute of Optics and Fine Mechanics, CAS, China)

Tu4-4 **09:45-10:00**

205-W, 205-mJ, 1.7-ps cryogenic Ho:YLF chirped-pulse amplifier at 2.05 μm
Hewei Qu, Wei Gao, Yanshen Cheng, Hua Lin, Yuxi Fu, Le Wang, Shuai Yao, Hao Yuan and Min Zhang (Xi'an Institute of Optics and Precision Mechanics, CAS, China)

Coffee Break

Session Title	High-repetition High-power lasers
Session Time	10:30-11:45
Session Chair(s)	Tokita (Kyoto Univ., Japan)

Tu4-5 **10:30-11:00**

Toward MHz repetition rate high energy laser application (Invited Paper)
Ryo Yasuhara(National Institute for Fusion Science, Japan)

Tu4-6 **11:00-11:30**

Generation of microjoule femtosecond Raman pulses from integrated Yb-Raman fiber amplifiers (Invited Paper)
Zhi Cheng and Jiaqi Zhou (Shanghai Institute of Optics and Fine Mechanics, CAS, China); Yan Feng (Univ. of Chinese Academy of Sciences, China)

Tu4-7 **11:30-11:45**

213.4 W Continuous-Wave Diamond Raman Laser at 1240 nm via Polarization-Combined Pumping
Li Muye, Sun Yuxiang, Feng Yan and Yang Xuezong (Univ. of Chinese Academy of Sciences, China)

Lunch

Poster Session (13:00-14:30)

Session Title	High-repetition High-power lasers
Session Time	14:30-15:15
Session Chair(s)	Jin Yunxia (Shanghai Institute of Optics and Fine Mechanics, CAS, China)

Tu4-8 **14:30-15:00**

Research Progress on Direct Liquid-Cooled Yb:YAG Thin-Disk Lasers (Invited Paper)
Keyang Liu, Huabao Cao and Yuxi Fu (Xi'an Institute of Optics and Precision Mechanics, CAS, China)

Tu4-9 **15:00-15:15**

Toward Tens of Kilowatts with a Distributed Side-Coupled Cladding-Pumped Fiber Laser
Chen Yi, Liu Nian, Dai Jiangyun, Li Fengyun, Liu Yu, Jiang Lei, Tao Rumao, Lin Honghuan, Wang Jianjun, Gao Cong and Zhang Ningrui (CAEP - Laser Fusion Research Center, China)

Coffee Break

Session Title	Novel techniques for high-power lasers
Session Time	15:45-17:45
Session Chair(s)	Keyang Liu (Xi'an Institute of Optics and Precision Mechanics, CAS, China)

Tu4-10 **15:45-16:15**

Performance Enhancement and Applications of Pulse Compression Gratings (Invited Paper)
Jin yunxia(Shanghai Institute of Optics and Fine Mechanics, CAS, China)

Tu4-11 **16:15-16:45**

A Rapid Pulse Shaping Method for Large-Scale Laser Facilities Based on the Nonlinear Electro-Optic Effect (Invited Paper)
Yangfan Li(CAEP - Laser Fusion Research Center, China)

Tu4-12 **16:45-17:00**

FODI Images-based Optics Damage Identification, Grading and Prediction
Xueyan Hu and Yangfan Li (CAEP - Laser Fusion Research Center, China)

Tu4-13 **17:00-17:15**

Theoretical study on the influence of counter-propagating laser on tandem-pumped short-wavelength pump sources
Ruixian Li, Daozhu Sun, Pengyu Li, Yuyuan Yang and Yongqiang Li (National Key Laboratory of Test & Evaluation of ElectroMagnetic Space Security, China)

Tu4-14 **17:15-17:30**

Spatiotemporal Phase-matching Enables 113-μJ Compressible Deep-UV Pulses in a 1-m-long Hollow Capillary Fiber
Tiandao Chen, Jinyu Pan and Donghan Liu (SIOM, CAS, China); Ruochen Yin, Xinglin Zeng, Jinxin Zhan, Jiapeng Huang, Wenbin He and Xin Jiang (SIOM, CAS , China and HIOM, China); Hao Hong and Kaihui Liu (Peking Univ., China); Yuxin Leng, Ruxin Li, Meng Pang and Zhiyuan Huang (SIOM, CAS, China)

Tu4-15 **17:30-17:45**

Research on Thermal Management in High-Power Laser Systems
Jiangtao Guo, Youen Jiang, Jiangfeng Wang, Xinghua Lu and Wei Fan (Shanghai Institute of Optics and Fine Mechanics, CAS, China)

C05

Laser Processing and Innovative Applications

Conference Room: ROOM 305D

Conference Date: Aug.2 (Sun.)-Aug.3 (Mon.)

Co-chairs

Ya Cheng (East China Normal Univ., China)
Koji Sugioka (RIKEN Center for Advanced Photonics, Japan)

Members

Jiyeon Choi (KIMM, Korea)
Francois Courvoisier (FEMTO-ST Institute, France)
Saulius Juodkazis (Swinburne Univ. of Technology, Australia)
Yoonsoo Rho (Ulsan National Institute of Science and Technology, Korea)
Dezhi Tan (Zhejiang Univ., China)
Mitsuhiro Terakawa (Keio Univ., Japan)
Dong Wu (Univ. of Science and Technology of China, China)
Wei Xiong (Huazhong Univ. of Science and Technology, China)
Leonid Zhigilei (The Univ. of Virginia, USA)

August 2 (Sunday)

Session Title	Laser Structuring of Surfaces and Interfaces
Session Time	13:30-15:00
Session Chair(s)	Oleg Pronin (Helmut Schmidt Univ.,Germany)

Su5-1 **13:30-14:00**

Femtosecond Laser Surface Functionalization for Renewable Energy (Invited Paper)
Chunlei Guo(Univ. of Rochester, USA)

Su5-2 **14:00-14:15**

Harnessing Picosecond Pulse Trains: Burst Laser-Induced Pitting (BLIP) as a New Pathway for Efficient Nanoscale Surface Engineering
Punith Chikkahalli Lokesh,Fang Xue and Alexander Cockerham(Univ. of Central Florida,USA); Mingman Sun (Univ. of Wisconsin,USA); Lei Xu(Nottingham Trent Univ., UK);Sasan Fathpour and Xiaoming Yu(Univ. of Central Florida,USA)

Su5-3 **14:15-14:30**

Femtosecond laser processing of advanced optical encryption interfaces
Dongshi Zhang(Shanghai Jiao Tong Univ.,China)

Su5-4 **14:30-14:45**

Laser-fabricated Anti-limescale and Anti-bacterial Microstructures for Drinking Water Tanks
Yang Xu,Nan Wang and Guijun Li(Hong Kong Univ. of Science and Technology, Hong Kong,China)

Su5-5 **14:45-15:00**

Study on Water-Guided Laser Processing of Refractory Metals and Its Application in Oxygen Vacancy Defect Fabrication
Zihuai Su and Ye Dai (Shanghai Univ.,China)

Coffee Break

Session Title	Laser Synthesis of Novel Nanomaterials
Session Time	15:30-17:15
Session Chair(s)	Chunlei Guo(Univ. of Rochester, USA)

Su5-6 **15:30-16:00**

Laser processing of silicon powders for graphene-coated Si/SiC nanomaterials (Invited Paper)
Jiwang Yan(Keio Univ., Japan)

Su5-7 **16:00-16:30**

Wooden Materials-Based Laser-Induced Graphene Electronics (Invited Paper)
Han Ku Nam (Chungnam National Univ.,Korea)

Su5-8 **16:30-16:45**

Stabilizing Solid-State Lithium-Metal Batteries via Laser-Direct-Written Ag/AgxO Nanoparticle Interlayers
Cuiyun Yang and Mitch Guijun Li(The Hong Kong Univ. of Science and Technology, Hong Kong, China)

Su5-9 **16:45-17:00**

Perovskite nanocrystals-in-glass hierarchical structures enable stable continuous-wave random lasers
Xinkuo Li,Jianrong Qiu and Dezhi Tan(Zhejiang Univ.,China)

Su5-10 **17:00-17:15**

Universal Synthesis of High-Entropy Alloy Nanostructures with Femtosecond Lasers
Zikang Su and Xueqiang Zhang(Beijing Institute of Technology,China)

August 3 (Monday)

Session Title	Micromachining and Nanofabrication
Session Time	08:30-10:15
Session Chair(s)	Ya Cheng (East China Normal Univ., China)

Mo5-1 **08:30-09:00**

Three decades of innovation in femtosecond laser functionalization of glass substrates: from pioneer works to challenges and opportunities (Invited Paper)
Yves Bellouard (Ecole Polytechnique Fédérale de Lausanne (EPFL),Switzerland)

Mo5-2 **09:00-09:30**

Laser Nanoprinting of Nanocrystals: from 3D Printing to Single-Emitter Integration (Invited Paper)
Linhan Lin(Tsinghua Univ.,China)

Mo5-3 **09:30-09:45**

High-efficiency micro-hole array processing using hybrid Galvo-AOD scanning
Haoran Wang,Shuqi Zhang,Chen Pu,Zunnan Huang,Yihan Le and Guangzhi Zhu(Huazhong Univ. of Science and Technology,China)

Mo5-4 **09:45-10:00**

Customized fabrication of large and precise 3D glass microstructures via ultrafast laser-assisted etching
Xu Jian and Cheng Ya(East China Normal Univ.,China)

Mo5-5 **10:00-10:15**

Fiber grating fabrication and sensing application based on femtosecond laser processing
Xiang LI,Mingjing He,Mao Si,Junhao Li,Yufeng Ma,Haipeng Liu,Cunliang Yang,Zhiheng Yu and Jijun Feng(Univ. of Shanghai for Science and Technology,China)

Coffee Break

Session Title	Laser Processing of Transparent Materials
Session Time	10:45-12:15
Session Chair(s)	Yves Bellouard (EPFL, Switzerland)

Mo5-6 **10:45-11:15**

Selective etching of femtosecond-laser-inscribed structures in lithium niobate for micro-optofluidics (Invited Paper)
Kore Hasse,Daniel Nwatu,Sergiy Suntsov and Detlef Kip(Helmut Schmidt Univ., Germany)

Mo5-7 **11:15-11:30**

Low-Loss Periodically Poled Lithium Niobate on Insulator Waveguides fabricated by photolithography assisted chemo-mechanical etching
Yixuan Yang,Guanghui Zhao,Saisai Sun and Jintian Lin(Shanghai Institute of Optics and Fine Mechanics, CAS,China); Ya Cheng(East China Normal Univ.,China)

Mo5-8 **11:30-11:45**

Fabrication of YAG hollow channel "double-line" waveguides based on femtosecond laser enhanced wet etching
Jie Wu,Yusha Xia,Yawen Hua,Hao Xu,Shutong Wang,Guoliang Deng and Shouhuan Zhou(Sichuan Univ.,China)

Mo5-9 **11:45-12:00**

Extreme Nanoscale Processing of Transparent Materials with Ultrafast Lasers
Guodong Zhang and Guanghua Cheng(Northwestern Polytechnical Univ., China)

Mo5-10 **12:00-12:15**

Femtosecond laser three-dimensional isotropic inscription in glass enabled by high-speed rotating slit beam shaping
Yuanxin Tan (Shandong Normal Univ.,China); Jian Xu (East China Normal Univ. ,China); Yangjian Cai (Shandong Normal Univ. ,China); Ya Cheng (East China Normal Univ.,China)

Lunch

Session Title	Novel Applications Enabled with Ultrashort Laser Pulses
Session Time	13:45-15:30
Session Chair(s)	Han Ku Nam (Chungnam National Univ.,Korea)

Mo5-11 **13:45-14:15**

Ultrafast laser-induced modulation of structures and photonic functionalities in glass (Invited Paper)
Dezhi Tan(Zhejiang Univ.,China)

Mo5-12 **14:15-14:45**

Overview of the state-of-the-art 50 fs micromachining of transparent materials (Invited Paper)
Oleg Pronin, Cheriyan Varghese(Helmut Schmidt Univ.,Germany); Mario Ochoa(Univ. of Cantabria, Spain); Kilian Fritsch(Helmut Schmidt Univ., Germany); Beat Neuenschwander(Berner Fachhochschule,Switzerland)

Mo5-13 **14:45-15:00**

On-Demand Multimode Chiral Conversion Based on Dynamically Encircling Exceptional Lines
Ruiqi Wang and Yuliang Tang(Peking Univ.,China); Tianyang Zhang and Yang Chen(Univ. of Science and Technology of China,China); Xifeng Ren(Univ. of Science and Technology of China,China);Yan Li(Peking Univ.,China)

Mo5-14 **15:00-15:15**

Micromachining of Silicon Carbide with 50 fs Pulses at 1 μm Wavelength
Nicolay Labanda,Cheriyan Varghese and Oleg Pronin(Helmut Schmidt Univ.,Germany)

Mo5-15 **15:15-15:30**

Research into the frequency trimming properties of on-chip lasers utilizing Limaçon microcavities on Z-cut and X-cut lithium niobate thin films
Yao Taiyu,Xu Yuxuan and Deng Li(East China Normal Univ.,China)

C06

Optical and Photonic Metrology

Conference Room: ROOM 305B

Conference Date: Aug.2 (Sun.)-Aug.4 (Tue.)

Co-chairs

Sen Han (Univ. of Shanghai for Science and Technology, China)
Toyohiko Yatagai (Utsunomiya Univ. ,Former SPIE President, Japan)

Members

Qian Kemao (Nanyang Technological Univ., Singapore)
Quanying Wu (Suzhou Univ. of Science and Technology, China)
Daewook Kim (Univ. of Arizona, USA)
Wei Wang (Heriot-Watt Univ.,UK)
Yinghui Wang (Zhejiang Institute of Metrology, China)
Bin Mao (Shanxi Institute of Metrology, China)
Jariya Buajarern (National Institute of Metrology, Thailand)
Chao-Wen Liang (Tacoptics,Inc, Taiwan, China)

August 2 (Sunday)

Session Title	Optical Metrology Methods I
Session Time	13:30-15:15
Session Chair(s)	Sen Han (Univ. of Shanghai for Science and Technology, China)

Su6-1 **13:30-14:00**

Optical metrology for X-ray free electron-laser optics in Shanghai (Invited Paper)
Xiaohao Dong(Shanghai Advanced Research Institute,CAS, China)

Su6-2 **14:00-14:15**

Controllable, High-Power Single Comb Using Spectral Peaking and Fabry-Perot Filter for CRDS at l = 1.65 um
Norihiko Nishizawa,Ningwu Liu,Shotaro Kitajima and Ryohei Terabayashi(Nagoya Univ.,Japan);Hisashi Abe(AIST,Japan);Hideki Tomita(Nagoya Univ.,Japan);

Su6-3 **14:15-14:30**

Timing Jitter Measurement with Zeptosecond/√Hz Resolution Using Ultra-Stable Optical References
Churan Zhang(Tianjin Univ.,China);Tangyin Liao and Bingkun Lu(National Institute of Metrology, China); Jianing Tao and Youjian Song(Tianjin Univ.,China);Yige Lin(National Institute of Metrology,China); Minglie Hu(Tianjin Univ.,China);Haochen Tian(National Institute of Metrology,China)

Su6-4 **14:30-14:45**

Phase Noise Suppression of An Optical Fiber-Based Interferometer Using An External-Miniature-Cavity Ultralow Noise Laser
Tsubasa Kashimura,Yohei Sugiyama,Yuto Shitaka,Akito Ozawa and Koya Takehi(Yokohama National Univ.,Japan); Wataru Kokuyama(National Institute of Advanced Industrial Science and Technology , Japan); Kanta Asakawa,Daisuke Akamatsu,Feng-Lei Hong and Tsubasa Kashimura(Yokohama National Univ.,Japan)

Su6-5 **14:45-15:00**

Ultra-Stable Laser with Hollow-Core Fibers
Zitong Feng(Univ. of Southampton,UK)

Su6-6 **15:00-15:15**

An Overview of NPL's Comb-Based Optical Frequency Synthesisers for Precision Metrology
Xi Zhang,Risaro Matias and Tunesi Jacob(National Physical Laboratory,UK)

Coffee Break

Session Title	Optical Metrology Methods II
Session Time	15:45-17:45
Session Chair(s)	Toyohiko Yatagai (Utsunomiya Univ. ,Former SPIE President, Japan)

Su6-7 **15:45-16:15**

Study on Abbe Error and Its Reduction Method in Length Measuring Instrument Calibration via Laser Interferometry (Invited Paper)
Shengbo Yu,Ji Ye,Qiaoying Gu,Bojie Chen,Xin Xia and Tianhao Xia(Ningbo Institute of Measurement and Testing,China)

Su6-8 **16:15-16:30**

Vernier-Effect-Based FMCW LiDAR with Extended Unambiguous Range Using Multiple Chirp Periods
Zhiyao Wang,Xianyi Cao,Yifan Xia,Qinyuan Chen,Yuyao Guo,Linjie Zhou,Jianping Chen and Kan Wu(Shanghai Jiao Tong Univ.,China)

Su6-9 **16:30-16:45**

Analysis for the Impact of Carrier-wave Phase Noise on Dual-comb Ranging
Yuetang Yang,Jiayang Chen,Guanhao Wu,Chen Lin(Tsinghua Univ.,China); Shikui Shen(China Unicom Research Institute,China); Guanhao Wu(Tsinghua Univ.,China)

Su6-10 **16:45-17:00**

Active-pulse-tracking dual-comb ranging based on a balanced optical cross-correlator
Yanqing Shi(Tianjin Univ.,China);Ziye Wang(Jiangsu Univ. of Science and Technology,China);Kai Wang(Tianjin Univ.,China);Haochen Tian(National Institute of Metrology,China);Minglie Hu and Youjian Song(Tianjin Univ.,China)

Su6-11 **17:00-17:15**

FMCW Lidar Stitching Algorithm with Compensation for Phase Errors
Qinyuan Chen,Xianyi Cao,Xiaozhou Ma,Runze Gao,Zhiyao Wang,Jianping Chen and Kan Wu(Shanghai Jiao Tong Univ.,China)

Su6-12 **17:15-17:30**

High-Precision Delay-Doppler Estimation in Comb-Based Dynamic Time-Frequency Transfer Using Cross-Ambiguity Function and Nelder-Mead Refinement
Yameng Zhai,Fan Huang,Xinyi Chen,Hanxu Wu,Li Song,Shouming Cheng,Shengkang Zhang,Jun Ge and Honglei Yang(Beijing Institute of Radio Metrology and Measurement,China)

Su6-13 **17:30-17:45**

Two-Way Time and Frequency Transfer Based on Electro-Optically Modulated Frequency Combs
Fan Huang and Li Song(Beijing Institute of Radio Metrology and Measurement,China);Xiaoming Zhang(Tsinghua Univ.,China);Hanxu Wu,Yameng Zhai,Shouming Cheng,Shengkang Zhang,Jun Ge and Honglei Yang(Beijing Institute of Radio Metrology and Measurement,China)

August 3 (Monday)

Session Title	Optical Metrology Methods III
Session Time	08:30-10:00
Session Chair(s)	Daewook Kim (Univ. of Arizona, USA); Quanying Wu (Suzhou Univ. of Science and Technology, China)

Mo6-1 **08:30-09:00**

Hybrid Phase Demodulation of Closed Fringes in Metasurface-Based Radial Shearing Interferometry(Invited Paper)
Huixin Song,Bin Shen and Yingjie Yu(Shanghai Univ.,China)

Mo6-2 **09:00-09:15**

Spectral-Domain Interferometric Ranging Using a Metasurface Array Spectrometer
Huashun Sun(Huazhong Univ. of Science and Technology,China;Tsinghua Univ.,China);Xiaorui Lu and Jinxu Zhang(Tsinghua Univ., China);Xiaojun Liu(Huazhong Univ. of Science and Technology,China);Fei Xing and Jinxu Zhang(Tsinghua Univ.,China)

Mo6-3 **09:15-09:30**

Wavefront Reconstruction In Radial Shearing Interferometry Via Ray-Tracing-Based Iterative Reverse Optimization
Ba Son Nguyen(Seoul National Univ. of Science and Technology,Korea);Huy Vu(Hanoi Univ. of Science and Technology,Vietnam);Tri Nguyen(Seoul National Univ. of Science and Technology,Korea);Joohyung Lee(Seoul National Univ. of Science and Technology,Korea)

Mo6-4 **09:30-09:45**

Dynamic Precision Ranging and Velocimetry Using Dual-swept Lasers
Wei Du and Yujia Li(Chongqing Univ.,China);Bin Wang(PetroChina Tarim Oilfield Company,China);Jingsheng Huang(CNPC,China);Hao Wu,Yanchang Wu and Tao Zhu(Chongqing Univ.,China)

Mo6-5 **09:45-10:00**

Thermal-induced Path Length and Frequency Fluctuations of the Diffracted Beam of an Acousto-optic Frequency Shifter
Li Runmin(Institute of Microelectronics of the Chinese Academy of Sciences,China); Tian Haochen(National Institute of Metrology,China); Dong Dengfeng,Lin Yige and Zhou Weihu(Institute of Microelectronics of the Chinese Academy of Sciences,China)

Coffee Break

Session Title	Optical Metrology Methods IV
Session Time	10:30-11:45
Session Chair(s)	Wei Tao (Shanghai Jiao Tong Univ.,China) Bin Mao (Shanxi Institute of Metrology, China)

Mo6-6 **10:30-11:00**

Interference Testing Method for the Surface Shape of Cylindrical Ring (Invited Paper)
Sen Han,Liwei Zhang and Yuhang Shen(Univ. of Shanghai for Science and Technology,China;Suzhou H&L Instruments LLC,China);Ying Yang(Suzhou H&L Instruments LLC,China; Changchun Univ. of Science and Technology, China)

Mo6-7 **11:00-11:15**

Moiré-Based High-Sensitivity Periodic Sample Inspection Via Actively Controllable Third Harmonic Duv Structured Beam
Jungyoon Kim,Yungeun Oh,Seungjai Won,Jeongil Hwang,Seonho Son and Young-Jin Kim(KAIST-ME,Korea)

Mo6-8 **11:15-11:30**

Orientation Method for Distributed Laser Measurement System Based on Multi-Line Constrained Target
Jianlong Zhang and Rao Zhang(Tianjin Univ.,China)

Mo6-9 **11:30-11:45**

A Single-Modality Point-Cloud-Driven LiDAR Method for 3D Defect Inspection of Wind Turbine Blades
Haiying Zhao and Lei Jin(Harbin Engineering Univ.,China)

Lunch

Session Title	Optical Metrology Applications I
Session Time	13:30-15:15
Session Chair(s)	CHAO-WEN LIANG (Tacoptics,Inc, Taiwan,China) Tianhao Xia (Ningbo Institute of Measurement and Testing,China)

Mo6-10 **13:30-14:00**

Synchronous Measurement Method for Linear Guideways Parallelism Based on Non-polarizing Beam Splitting (Invited Paper)
Yinghui Wang and Zichen Zhao(Zhejiang Institute of Quality Science,China);Weibo Zhang and Wenqiang Ding(Lishui Institute for Quality Inspection and Testing,China);Yinbao Cheng(China Jiliang Univ., China); Xiaofeng Wu(Lishui Nancheng Xincheng Industrial Innovation Service co., ltd,China);Bin Shen(Hangzhou Optical-Ruler Tech Co., Ltd,China);Bin Guo and Huaichu Ye(Zhejiang Institute of Quality Science,China)

Mo6-11 **14:00-14:15**

In-Situ High-Precision Crosstalk Error Correction for Integrated Phase-Shift LiDAR System
Ruitao Yang, Jinxuan Wu, Hao Sun, Tuo Xu, Feifei Yan, Xiang Tian, Zhiyuan Bi, Xu Xing and Pengcheng Hu(Zhengzhou Research Institute,HIT,China)

Mo6-12 **14:15-14:30**

Six-Degree-of-Freedom Synchronous Measurement System Based on Optical Frequency Comb and Single Target Mirror
Chen Lin,Siyu Zhou,Liheng Shi,Yuetang Yang and Guanhao Wu(Tsinghua Univ.,China)

Mo6-13 **14:30-14:45**

Monocular Vision and Dual-Comb Ranging Fusion for High-Precision 6-DOF Measurement
ZHANG RUIXUE,Yuan Ding,Zhang Puzhen,Cong Qiang(Beijing Institute of Spacecraft System Engineering,China);Liu Peiyu,Liu Jiuli,Li Yan(China Academy of Space Technology,China);Zhang Ruixue(Beijing Institute of Spacecraft System Engineering,China)

Mo6-14 **14:45-15:00**

Time-gated active-imaging digital image correlation for ultra-high temperature deformation measurement
Ning Lu and Liping Yu (Beihang Univ.,China)

Mo6-15 **15:00-15:15**

Research on Self-Developed Underwater Attenuation Measurement and Unwater Transmission Characteristics
Hong Jiang and Yingying Yang(Institute of Semiconductors, CAS,China)

Coffee Break

Session Title	Optical Metrology Applications II
Session Time	15:45-17:45
Session Chair(s)	Wei Wang (Heriot-Watt Univ.,UK) Yinghui Wang (Zhejiang Institute of Metrology, China)

Mo6-16 **15:45-16:15**

Physics-Informed Diffusion for Stable Phase Recovery in High Dynamic Range Single-Shot Structured Light(Invited Paper)
Hongling Luo,Wei Tao(Shanghai Jiao Tong Univ.,China)

Mo6-17 **16:15-16:30**

An Optimized Compensation Structure for a Multi-layer Short Solenoid to Achieving High Uniformity of the Magnetic Filed
Zesong Li and Tianhao Xia(Ningbo Institute of Measurement and Testing,China)

Mo6-18 **16:30-16:45**

Deep Learning Empowered Hyperspectral Imaging with Electrically Tunable Liquid Crystals
Zhang Zu-shuai,Zheng Ze-huan and Chen Jin-hui(Xiamen Univ.,China)

Mo6-19 **16:45-17:00**

BPMNet: A Deep Learning Framework for Mapping Unstable Optical BCG to High-Fidelity PPG
Song Mengke and Ni Jinchao(Suzhou Univ. of Technology,China);Lin Xinxin(Air Force Medical Univ.,China);Xu Wei(Suzhou Univ. of Technology,China);Yu Changyuan and Wang Xiuyuan(The Hong Kong Polytechnic Univ.,Hong Kong,China)

Mo6-20 **17:00-17:15**

Chemically Robust Enhanced and Highly Sensitive Raman Measurements in Water and NaCl Solutions Enabled by Remote Plasmonic-Enhanced Raman Scattering
Shota Taguchi,Imura Takumi,Ryo Kato and Takeo Minamikawa(The Univ. of Osaka,Japan)

Mo6-21 **17:15-17:30**

Transfer-Function-Based Noise Analysis in a Laser-Sustained Xenon Plasma System
Hieu Tran,Tuan Nguyen and Joohyung Lee(Seoul National Univ. of Science and Technology ,Korea)

Mo6-22 **17:30-17:45**

Interference-Calibrated Second-Harmonic Metrology in Planar χ(2) Thin Films via Optical-Baseline Removal
Ardra Muriyankandathil,Parikshit Sahatiya,Nitish Kumar Gupta and Nitish Kumar Gupta(Birla Institute of Technology and Science (BITS) Pilani,India)

August 4 (Tuesday)

Session Title	Optical Metrology Applications III
Session Time	08:30-10:00
Session Chair(s)	Xiaohao Dong (Shanghai Advanced Research Institute,CAS, China) Jariya Buajarern (National Institute of Metrology, Thailand)

Tu6-1 **08:30-09:00**

Recent progress in Optical Transfer Matrix for polarization imaging system (Invited Paper)
Wei Wang(Heriot-Watt Univ.,UK; Xi'an Technological Univ.,China); Jianlin Nie(Xi'an Technological Univ.,China); Steen G. Hanson(Technical Univ. of Denmark,Denmark); Mitsuo Takeda(Utsunomiya Univ.,Japan; Xi'an Technological Univ.,China)

Tu6-2 **09:00-09:15**

Water vapor absorption sensing using a broadband-tunable narrow-linewidth continuous-wave Cr:YAG laser
Ji-Hoon Park(Korea Advanced Institute of Science and Technology,Korea);Seung-Kyu Park(Korea Atomic Energy Research Institute ,Korea);Deok-Woo Kim(Korea Advanced Institute of Science and Technology ,Korea);Kwang-Hoon Ko(Korea Atomic Energy Research Institute,Korea);Fabian Rotermund(Korea Advanced Institute of Science and Technology,Korea)

Tu6-3 **09:15-09:30**

Selective Molecular Detection of CH4 Using an Optical Frequency Comb Cavity Ring-down Spectrometer
Ningwu Liu,Ryohei Terabayashi,Daiki Hashimoto,Shotaro Kitajima,Norihiko Nishizawa,(Nagoya Univ.,Japan); Hisashi Abe(National Metrology Institute of Japan,Japan);Hideki Tomita and Ningwu Liu(Nagoya Univ.,Japan)

Tu6-4 **09:30-09:45**

Cavity-enhanced spectroscopy in the deep cryogenic regime for quantum sensing and precise metrology
Kamil Stankiewicz, Marcin Makowski, Michał Słowiński, Kamil Leon Sołtys, Bogdan Bednarski, Hubert Jóźwiak, Szymon Wójtewicz,Dariusz Kierski,Agata Cygan,Grzegorz Kowzan,Piotr Masłowski,Mariusz Piwiński,Daniel Lisak and Piotr Wcisło(Nicolaus Copernicus Univ. in Toruń, Poland)

Tu6-5 **09:45-10:00**

Broadband and High-Speed Dual-Comb Spectroscopy Using a Dynamic Bidirectional Mode-Locked fiber Laser
Mingjun Wang,Zhangru Shi,Anshaung Wang,Yanhong Guo,Baicheng Yao,Yunjiang Rao and Bowen Li(Univ. of Electronic Science and Technology of China,China)

Coffee Break

Session Title	Optical Metrology Applications IV
Session Time	10:30-12:15
Session Chair(s)	Yingjie Yu (Shanghai Univ.,China) Tianhao Xia (Ningbo Institute of Measurement and Testing,China)

Tu6-6 **10:30-11:00**

Reasoning the Precision of fringe projection profilometry (FPP): from a small "angle" to a big picture(Invited Paper)
Shenzhen Lv and Kemao Qian(Nanyang Technological Univ.,China)

Tu6-7 **11:00-11:15**

Roadmap for Remote Rydberg Quantum Thermometry: Detection Strategies and Fundamental Limits
Assaf Alassaf and Ramiz Hamid (Saudi Standards Metrology & Quality Organization,Saudi)

Tu6-8 **11:15-11:30**

Exploiting Stark Sublevels for Rare-earth-based Optical Nanothermometry at Cryogenic Temperature Ranges
Allison Pessoa(Universidade Federal de Pernambuco,Brazil); Thomas Possmayer (Ludwig-Maximilians-Universität, Germany);Jefferson Galindo(Universidade Federal de Pernambuco,Brazil); Luiz dos Santos and Rogéria Gonçalves (Univ. of São Paulo,Brazil); Leonardo Menezes(Ludwig-Maximilians-Universität,Germany)

Tu6-9 **11:30-11:45**

Absolute Optical Thermometry with Rare-Earth-Doped Nanoparticles
Allison Pessoa(Universidade Federal de Pernambuco,Brazil); Thomas Possmayer (Ludwig-Maximilians- Universität, Germany); Jefferson Galindo(Universidade Federal de Pernambuco, Brazil); Luiz dos Santos and Rogéria Gonçalves (Univ. of São Paulo,Brazil); Leonardo Menezes (Ludwig-Maximilians-Universität, Germany); Anderson Amaral (Universidade Federal de Pernambuco, Brazil)

Tu6-10 **11:45-12:00**

A new loss-engineering mechanism for surface-enhanced infrared absorption
Haiou Lu,Zhang Min and Qian Zhou(Tsinghua Univ.,China)

Tu6-11 **12:00-12:15**

Ultrafast Roll-Angle Measurement Technology Based on Optical Frequency Comb Polarization Modulation
Yuhan Li,Liheng Shi,Runkun Zhao and Guanhao Wu(Tsinghua Univ.,China)

Lunch

Poster Session (13:00-14:30)

C07
Quantum Photonics

Conference Room: ROOM 311A

Conference Date: Aug.2 (Sun.)-Aug.4 (Tue.)

Co-chairs

Jin Liu (Sun Yat-sen Univ., China)
Yasutomo Ota (Keio Univ., Japan)
Jehyung Kim (Ulsan National Institute of Science and Technology, Korea)
Chaoyang Lu (Univ. of Science and Technology of China, China)

Members

Liang Zhai (Univ. of Electronic Science and Technology of China, China)
Xiulai Xu (Peking Univ., China)
Shuntaro Takeda (The Univ. of Tokyo, Japan)
Nobuyuki Matsuda (Tohoku Univ., Japan)
Heedeuk Shin (Pohang Univ. of Science and Technology, Korea)
Hojoon Jung (Korea Institute of Science and Technology, Korea)
Di Zhu (National Univ. of Singapore, Singapore)
Igor Aharonovich (Univ. of Technology Sydney, Australia)

August 2 (Sunday)

Session Title	Single-photon, Entangled-photon, and Squeezed Light Sources I
Session Time	13:30-15:00
Session Chair(s)	Jianwei Tang (Huazhong Univ. of Science and Technology, China)

Su7-1 **13:30-14:00**

Waveguide-coupled Indistinguishable Single-molecule Single Photon Sources for On-chip Quantum Optics (Invited Paper)
Jianwei Tang(Huazhong Univ. of Science and Technology, China)

Su7-2 **14:00-14:30**

Preparation, Detection & Application of High-Quality Quantum Light Sources (Invited Paper)
Jietai Jing(East China Normal Univ., China)

Su7-3 **14:30-14:45**

Photon-Pair Generation Based on Spontaneous Four-wave Mixing in ZBLAN Fiber with Continuous-wave Pumping
Taeho Woo,Namwook Joe and Ju Han Lee(Univ. of Seoul, Korea)

Su7-4 **14:45-15:00**

Generation of a CW anti-bunched photon field from a thin-film PPLN waveguide by two-photon interference with a weak coherent state
Yue Li, Haochuan Li, Yuhang Lei, Xiaoting Li, Jianmin Wang, Xuan Tang, Mu Ku Chen, E. Y. B. Pun, Cheng Wang and ZheYu Ou (City University of Hong Kong,Hong Kong, China)

Coffee Break

Session Title	Single-photon, Entangled-photon, and Squeezed Light SourcesII
Session Time	15:45-17:00
Session Chair(s)	Ying Gu (Peking Univ., China)

Su7-5 **15:45-16:15**

Photon-exciton strong and weak coupling in hybrid micro-nano structures (Invited Paper)
Ying Gu(Peking Univ., China)

Su7-6 **16:15-16:30**

High-performance sources of multidimensionally engineered quantum light based on monolithic microcavity-metalens interfaces
Jiantao Ma and Jin Liu(Sun Yat-sen Univ., China)

Su7-7 **16:30-16:45**

Spatial mode entanglement generation by using a mode-maintaining few-mode fiber
Shengjie Zhu,Jian Guo,Liang Cui and Xiaoying Li(Tianjin Univ., China)

Su7-8 **16:45-17:00**

Improving Single-Photon Indistinguishability with Cavity Floquet Modulation
Jiawang Yu and Chaoyuan Jin(Zhejiang Univ., China)

August 3 (Monday)

Session Title	Cluster, Graph, and Hypergraph State Generation, Manipulation, and Characterization
Session Time	08:30-10:00
Session Chair(s)	Hidehiro Yonezawa (RIKEN Center for Quantum Computing, Japan)

Mo7-1 **08:30-09:00**

Development of a Continuous-variable Optical Quantum Computer with One Hundred Inputs (Invited Paper)
Hidehiro Yonezawa(RIKEN Center for Quantum Computing, Japan)

Mo7-2 **09:00-09:15**

Sequential Efficient Construction of GHZ-like States from Single Photons
Suren Fldzhyan(Russian Quantum Center, Russia);Stanislav Straupe and Mikhail Saygin(Sber-Quantum Technology Center, Russia)

Mo7-3 **09:15-09:30**

Generation of Multi-Mode Intensity Squeezing in Ultrashort Pulse Trains Using Unbalanced Nonlinear Interferometers
Wen Zhao,Xiao Liu,Yunxiao Zhang,Xueshi Guo and Xiaoying Li(Tianjin Univ., China)

Mo7-4 **09:30-09:45**

Monolithic Integration of Continuous-variable Cluster-state Generation, Manipulation and Measurement
You Chang,Jia Xinyu and Zhai Chonghao(Peking Univ., China);Zhu Xuezhi(Shanxi Univ., China);Zheng Yun,Dai Tianxiang and Fu Zhaorong(Peking Univ., China);Su Xiaolong(Shanxi Univ., China);Gong Qihuang and Wang Jianwei (Peking Univ., China)

Mo7-5 **09:45-10:00**

Distributed Quantum Operations via Entanglement in Quantum Measurements
Hu Chen(Southern Univ. of Science and Technology, China);Shan Ling(Univ. of Science and Technology of China, China);Ya-Li Mao(Nankai Univ., China);Jiyang Liu(International Quantum Academy, China);Qian-Xi Zhang(Southern Univ. of Science and Technology, China);Xiduo Dong and Zheng-Da Li(International Quantum Academy, China)

Coffee Break

Session Title	Quantum Frequency Combs
Session Time	10:30-12:00
Session Chair(s)	Min-Kyo Seo (Korea Advanced Institute of Science and Technology, Korea)

Mo7-6 **10:30-11:00**

Standing-Wave Photonic-Crystal Fabry–Pérot Micro-Resonators in Thin-Film Lithium Niobate for Nonlinear and Quantum Photonics (Invited Paper)
Hyeon Hwang,Mohamad Nurrahman,Seokjoo Go,Hansuek Lee and Min-Kyo Seo(Korea Advanced Institute of Science and Technology, Korea)

Mo7-7 **11:00-11:30**

Toward a wavelength-multiplexed quantum internet based on quantum frequency conversion (Invited Paper)
Rikizo Ikuta (The Univ. of Osaka, Japan)

Mo7-8 **11:30-11:45**

A fiber-cavity biphoton frequency comb beyond 10,000 dimensions
Tianyi Wu(Huazhong Univ. of Science and Technology, China); Yongwei Shi(Nanjing Univ., China); Kai Yang and Huadong Zhang(Huazhong Univ. of Science and Technology, China); Xinyi Chen,Yuzhe Zhang,Kunpeng Jia and Zhenda Xie(Nanjing Univ., China); Yu Yu,Xinliang Zhang and Xiang Cheng(Huazhong Univ. of Science and Technology, China)

Mo7-9 **11:45-12:00**

Intraresonance Kerr combs generation
Andrei Danilin, Timur Yunusov, Ekaterina Vakhnitskaya, Alexey Dushanin,Anatoly Masalov, Dmitry Chermoshentsev and Igor Bilenko (Russian Quantum Center, Russia)

Lunch

Session Title	Novel Photonic Qubit and Qudit CQoncepts
Session Time	13:30-15:15
Session Chair(s)	Yong-Su Kim (Korea Institute of Science and Technology, Korea)

Mo7-10 **13:30-14:00**

Distributed Photonic Variational Quantum Eigensolver via Parameterized Weak Measurements (Invited Paper)
Donghwa Lee(Korea Institute of Science and Technology, Korea);Bohdan Bilash,Jaehak Lee and Hyang-Tag Lim(Korea Univ. of Science and Technology, Korea);Yosep Kim,Seungwoo Lee and Yong-Su Kim(Korea Institute of Science and Technology, Korea)

Mo7-11 **14:00-14:15**

Experimental Realization of Photonic Octopus States
Alexander Palatnik(Technion – Israel Institute of Technology, Israel);Liat Nemirovsky-Levy(Univ. of Vienna, Austria);Eyal Kalman,Guy Bartal and Mordechai Segev (Technion – Israel Institute of Technology, Israel)

Mo7-12 **14:15-14:30**

Overcoming channel loss via high-dimensional time-bin encoding
Kai Yang,Tianyi Wu,Huadong Zhang,Yu Yu,Xiang Cheng and Xinliang Zhang(Huazhong Univ. of Science and Technology, China)

Mo7-13 **14:30-14:45**

Robust Photon State Preparation by Encircling an Exceptional Point
Eyal Kalman,Oded Schiller,Alexander Palatnik,Yonatan Plotnik,Nimrod Moiseyev and Mordechai Segev(Technion – Israel Institute of Technology, Israel)

Mo7-14 **14:45-15:00**

Experimental Demonstration of Ancilla-driven Blind Variational Quantum Eigensolver
Manatsugu Tagami, Utsunomiya Kenta,Hikaru Shimizu, Masaki Nagai, Junko Ishi-Hayase and Takahiko Satoh(Keio Univ., Japan);Masahiro Takeoka(National Institute of Information and Communications Technology, Japan)

Mo7-15 **15:00-15:15**

All-optical quantum cloning based on four-wave mixing process
Shengshuai Liu,Yanbo Lou and Jietai Jing(East China Normal Univ., China)

Coffee Break

Session Title	Quantum-enabled Measurements and Characterization of Nonclassical States
Session Time	15:45-17:15
Session Chair(s)	Lantian Feng (Univ. of Science and Technology of China, China)

Mo7-16 **15:45-16:15**

On-chip Quantum Information Processing (Invited Paper)
Lantian Feng (Univ. of Science and Technology of China, China)

Mo7-17 **16:15-16:30**

Quantum Optical Methodology for Number Resolution of Subwavelength Colloidal Quantum Dots
Zhibo Ni,Jiawang Yu,Jiongzhao Li,Xing Lin and Chaoyuan Jin(Zhejiang Univ., China)

Mo7-18 **16:30-16:45**

Observation of input-free quantum nonclassicality in a minimal causal network
Ya Xiao and Yan-Xin Rong(Ocean Univ. of China, China);Ran He(Hefei Unitary Quantum, Co. Ltd, China);Kai Sun and Yong-Jian Han(Univ. of Science and Technology of China, China);Zheng-Hao Liu(Technical Univ. of Denmark, Denmark); Yong-Jian Gu(Ocean Univ. of China, China)

Mo7-19 **16:45-17:00**

Fast Adaptive Measurement of Quantum Squeezing from PPLN Waveguides with Inhomogeneous Wavefronts
Zhu Wen-xin,Zhao Guo-liang,Deng Qiqi,Guo Xueshi,Xie Chen and Li Xiaoying(Tianjin Univ., China)

Mo7-20 **17:00-17:15**

Spatial Diagnostic of Polarization-Correlation Imaging Using CHSH Mapping
Mousume Samad and Yojiro Mori(Toyota Technological Institute, Japan)

August 4 (Tuesday)

Session Title	Novel Integrated Quantum Photonic Platforms I
Session Time	08:30-10:00
Session Chair(s)	Jiaxiang Zhang (Shanghai Institute of Microsystem and Information Science, CAS, China)

Tu7-1 **08:30-09:00**

Integrated quantum photonic devices on heterogeneous material platforms (Invited Paper)
Xudong Wang,Yifan Zhu,Xiuqi Zhang and Jiaxiang Zhang(Shanghai Institute of Microsystem and Information Science, CAS, China)

Tu7-2 **09:00-09:30**

Hybrid Integrated Quantum Photonic Chip (Invited Paper)
Ryota Katsumi (Toyohashi Univ. of Technology,Japan)

Tu7-3 **09:30-09:45**

Experimental Coexistence of 9.6 Tbps Data Communication and DV-QKD over 100 km Trench-assisted Multi-core Fiber
Weiwen Kong,Tianqi Dou,Zhenhua Li and Yuheng Xie (China Telecom Research Institute, China); Lei Shen and Jun Chu (Yangtze Optical Fibre and Cable Joint Stock Limited Company, China; Optical valley laboratory, China);Song Gao (QuantumCTek Corporation Limited, China);Nan Lu and Xuewei Kan (ZTE corporation, China); Shibiao Tang (QuantumCTek Corporation Limited, China); Jianjun Tang (China Telecom Research Institute, China)

Tu7-4 **09:45-10:00**

Loopback boson sampling
Yury Biriukov and Ivan Dyakonov(Moscow State Univ., Russia)

Coffee Break

Session Title	Novel Integrated Quantum Photonic Platforms II
Session Time	10:30-11:45
Session Chair(s)	Yanxiao Gong (Nanjing Univ., China)

Tu7-5 **10:30-11:00**

Quantum photonic frequency processor on thin-film lithium niobate (Invited Paper)
Yanxiao Gong(Nanjing Univ., China)

Tu7-6 **11:00-11:30**

Nonlinear Programmable Quantum Photonic Circuits for Quantum State Generation and Quantum Simulation (Invited Paper)
Kwon Hyounghan(Korea Institute of Science and Technology, Korea)

Tu7-7 **11:30-11:45**

Hybrid Integration of Quantum Dot Single-Photon Sources with Lithium Tantalate Photonics for On-Chip Routing
Kaili Xiong(National Univ. of Defense Technology, China); Defeng Shan(Zhejiang Univ., China); Yan Chen(National Univ. of Defense Technology, China)

Lunch

Poster Session (13:00-14:30)

C08

Quantum Science of Light and Matter

Conference Room: ROOM 311C

Conference Date: Aug.2 (Sun.)-Aug.4 (Tue.)

Co-chairs

Weiping Zhang (Shanghai Jiao Tong Univ., China)
Howard Wiseman (Griffith Univ., Australia)

Members

Barry M. Garraway (The Univ. of Sussex, UK)
Verònica Ahufinger (The Institute of Photonic Sciences , Spain)
Xi Chen (The Institute of Materials Science of Madrid-Spanish National Research Council, Spain)
Zidan Wang (The Univ. of Hong Kong,Hong Kong, China)
Yanhong Xiao (Fudan Univ.& Shanxi Univ., China)
Keye Zhang (East China Normal Univ., China)
Jinshi Xu (The Univ. of Science and Technology of China, China)
Han Pu (Rice Univ., USA)
Zhensheng Yuan (The Univ. of Science and Technology of China, China)
Hyunseok Jeong (Seoul National Univ., Korea)
Leong-Chuan Kwek (National Univ. of Singapore, Singapore)
Ping Koy Lam (A*STAR, Singapore)

August 2 (Sunday)

Session Title	Quantum Light-matter Interactions, including Nonclassical Light Generation and Light-matter Entanglement I
Session Time	13:30-15:30
Session Chair(s)	Jinshi Xu (The Univ. of Science and Technology of China, China)

Su8-1 **13:30-14:00**

Characterizing the Multipartite Entanglement Structure of Non-Gaussian Continuous-Variable States (Invited Paper)
Qiongyi He (Peking Univ., China)

Su8-2 **14:00-14:30**

Disorder-induced average topological phase in an atom array (Invited Paper)
Yong Xu (Tsinghua Univ., China)

Su8-3 **14:30-14:45**

Experimental Realization of Orthogonal State Encoding Quantum Cryptography with Quantum Memory
Mingshuo Sun and Qin Wang(Nanjing Univ. of Posts and Telecommunications,China)

Su8-4 **14:45-15:00**

Phase-Matching Tunable Wide-Field Quantum Correlation Imaging with Scalable Megapixel Reconstruction
Shruti Sundar(ETH Zurich, Switzerland);M.V. Jabir(National Institute of Standards and Technology,USA); Daniel Razansky(ETH Zurich, Switzerland)

Su8-5 **15:00-15:15**

Super-Heisenberg Scaling in a Triple-Point Criticality
Jia-Ming Cheng and Zheng-Wei Zhou(Hefei National Laboratory,China)

Su8-6 **15:15-15:30**

Generation and manipulation of photon pairs with nonlinear metasurfaces
Jinyong Ma(Shenzhen Univ.,China;Australian National Univ., Australia); Andrey Sukhorukov(Australian National Univ., Australia)

Coffee Break

Session Title	Quantum Light-matter Interactions, including Nonclassical Light Generation and Light-matter Entanglement II
Session Time	16:00-18:00
Session Chair(s)	Qiongyi He (Peking Univ., China)

Su8-7 **16:00-16:30**

Relative-Intensity Squeezing of High-Order Harmonic Twin Beams (Invited Paper)
Shicheng Jiang (East China Normal Univ., China);Konstantin Dorfman (East China Normal Univ.,China ; Hainan Univ.,China)

Su8-8 **16:30-17:00**

Structured light as a resource for versatile quantum communication networks (Invited Paper)
Adam Valles(Universitat Autònoma de Barcelona,Spain)

Su8-9 **17:00-17:15**

Upper bound for the quantum coupling between free electrons and photons
Zhexin Zhao(Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany)

Su8-10 **17:15-17:30**

Quantum Impedance Lorentz Oscillator (QILO) Model and its Optoelectronic Applications
Pei-De Zhao(Hebei Univ. of Technology,China)

Su8-11 **17:30-17:45**

Quantumness of gamma-ray and hard x-ray photon emission from 3D free-electron lattices
Leshi Zhao(Peking Univ.,China)

Su8-12 **17:45-18:00**

From chiral laser pulses to femto- & attosecond electronic chirality flips in achiral molecules
Chen Yunjiao,Wang Huihui and Yang Yonggang(Shanxi Univ.,China)

August 3 (Monday)

Session Title	Quantum Memories, Quantum Repeaters and Distributed Entanglement
Session Time	08:30-10:15
Session Chair(s)	Da-Wei Wang (Zhejiang Univ., China)

Mo8-1 **08:30-09:00**

Quantum network based on solid state quantum memory (Invited Paper)
Chuan-Feng Li(Univ. of Science and Technology of China,China)

Mo8-2 **09:00-09:30**

AI-control-enabled loss-tolerant quantum interferometry
Liqing Chen (East China Normal Univ, China)

Mo8-3 **09:30-09:45**

Near perfect Quantum memory for continuous-variable quantum states
Guo Jinxian(Shanghai Jiao Tong Univ.,China)

Mo8-4 **09:45-10:00**

Investigation of N-type four-level system for evaluating 167Er3+ quantum memory efficiency
Zentaro Matsuzaki and Taeko Hamazaki(Nihon Univ., Japan); Hiroo Omi(Yamato Univ., Japan); Shoichiro Yasui (Hokkaido Univ., Japan;NTT, Inc., Japan); Satoru Adachi(Hokkaido Univ., Japan); Tomihiro Inaba and Xuejun Xu(NTT, Inc., Japan); Takehiko Tawara(Nihon Univ., Japan)

Mo8-5 **10:00-10:15**

AI-assisted hyper-dimensional broadband quantum memory
Wu Zeliang and Chen L.Q.(East China Normal Univ.,China)

Coffee Break

Session Title	Novel Physics and Techniques in Laser Cooling and Trapping, Cold Molecules, Trapped Ions, Optical Lattices, Cold Collisions, Degenerate Quantum Gases and Atom Optics
Session Time	10:45-12:30
Session Chair(s)	Liqing Chen (East China Normal Univ., China)

Mo8-6 **10:45-11:15**

Exploring supersolid dynamics with spin-orbit-coupled quantum gases (Invited Paper)
Sarah Hirthe (ICFO, Spain)

Mo8-7 **11:15-11:45**

Bose-Einstein condensation of ultracold polar molecules (Invited Paper)
Dajun Wang (The Chinese Univ. of Hong Kong, Hong Kong, China)

Mo8-8 **11:45-12:00**

Four-modes continuous-variable quantum entanglement from cold atoms
Gabriel Borba(Universidade de São Paulo, Brazil; Universidade Federal de Pernambuco, Brazil); Raoni Moreira (Universidade Federal de Pernambuco, Brazil); Luciano Cruz(Universidade Federal do ABC, Brazil); Marcelo Martinelli(Universidade de São Paulo, Brazil); Jose Tabosa and Daniel Felinto(Universidade Federal de Pernambuco, Brazil)

Mo8-9 **12:00-12:15**

Experimental Research of Cavity QED with Neutral Atom in a Fiber Microcavity
Jian Wang(Univ. of Science and Technology of China,China)

Mo8-10 **12:15-12:30**

Ions-to-Photons Quantum Information Converter on a Fiber
Marcos D. Vozer Felisberto(Indiana Univ. Bloomington,USA);Thomas W. Burkle(Indiana Univ.,USA);Samuel C. Muesing,Thomas H. Moore and Jenna E. Chodkiewicz,Babak Seradjeh,Phillip Richerme and Alexander Gumennik (Indiana Univ. Bloomington,USA)

Lunch

Session Title	Quantum transduction and frequency conversion with atoms, molecules, quantum dots, superconducting qubits and optomechanical systems
Session Time	13:30-15:30
Session Chair(s)	Dajun Wang (The Chinese Univ. of Hong Kong, Hong Kong, China)

Mo8-11 **13:30-14:00**

Geometric Doppler Shift, Spin-orbit coupling and Optical Nonreciprocity in Thermal Atoms (Invited Paper)
Da-Wei Wang (Zhejiang Univ., China)

Mo8-12 **14:00-14:30**

Mechanical squeezing via continuous quantum measurement and control (Invited Paper)
Chao Meng (Univ. of Queensland, Australia)

Mo8-13 **14:30-14:45**

Enhanced Two-Phonon Interaction Drives Multicomponent Mechanical Cat States
Nuo Wang and Ying Gu(Peking Univ.,China)

Mo8-14 **14:45-15:00**

Microwave-to-Optical Conversion Using Rydberg Atoms for Terahertz Frequency Comb
Bartosz Kasza, Wiktor Krokosz,Jan Nowosielski, Sebastian Borówka,Mateusz Mazelanik,Wojciech Wasilewski and Michał Parniak(Univ. of Warsaw, Poland)

Mo8-15 **15:00-15:15**

Sensing Black Body Radiation via Rydberg Atom Microwave-to-Optical Conversion
Marcin Jastrzębski,Sebastian Borówka,Mateusz Mazelanik,Wojciech Wasilewski and Michał Parniak(Univ. of Warsaw, Poland)

Mo8-16 **15:15-15:30**

Long-Haul Multi-User Quantum Communication Network with Integrated Photonics
Hanyu Wang,Yun Zheng,Xinyu Jia and Jiahui Huang(Peking Univ.,China); Huihong Yuan(Beijing Academy of Quantum Information Sciences,China);Lin Chang and Jianwei Wang(Peking Univ.,China)

Coffee Break

Session Title	Quantum Simulation and Quantum Computing with Atomic/Ionic Arrays including Rydberg Atomic Arrays
Session Time	16:00-18:00
Session Chair(s)	Yong Xu (Tsinghua Univ., China)

Mo8-17 **16:00-16:30**

Advanced Optimal Controls for Error-Tolerant Quantum Logic Gates (Invited Paper)
Jing Qian (East China Normal Univ., China)

Mo8-18 **16:30-17:00**

Nonequilibrium Topological Phases on Programmable Quantum Processors (Invited Paper)
Feng Mei (Shanxi Univ.,China)

Mo8-19 **17:00-17:15**

Photonic simulation of Majorana-based Jones polynomials
Kai Sun(Univ. of Science and Technology of China,China)

Mo8-20 **17:15-17:30**

Optical Synthetic Dimensions with Frequency and OAM
Yang Mu(Univ. of Science and Technology of China,China)

Mo8-21 **17:30-17:45**

Implementation of multiparticle quantum speed limits on observables
Zhao-Di Liu and Chuan-Feng Li(Univ. of Science and Technology of China,China)

Mo8-22 **17:45-18:00**

Broadband population transfer based on suture adiabatic pulses
Jiaming Li and Zheng-Wei Zhou(Univ. of Science and Technology of China,China)

August 4 (Tuesday)

Session Title	Precision Measurements and Quantum Optical Metrology, including Matter-wave Interferometry, Quantum Optical Interferometry, Quantum Enhanced Metrology and Sensing I
Session Time	08:30-10:00
Session Chair(s)	Xiao-Song Ma (Nanjing Univ., China)

Tu8-1 **08:30-09:00**

Photonic Quantum Memory and Atomic Sensing with Cold Atomic Ensembles (Invited Paper)
Jiefei Chen and Xingchang Wang (Southern Univ. of Science and Technology ,China); Ying Zuo (International Shenzhen Quantum Academy,China); Liang Dong and Xinyun Liang (Southern Univ. of Science and Technology, China)

Tu8-2 **09:00-09:15**

Bridging the Gap Between Quantum Optics and Real-World Sensing
Guzhi Bao(Shanghai Jiao Tong Univ.,China;Hefei National Laboratory-Shanghai Branch,China);Wei Du(Beijing Univ. of post and telecommunications,China);Yiquan Yang and Shuhe Wu(Shanghai Jiao Tong Univ., China; Hefei National Laboratory-Shanghai Branch,China);Weiping Zhang(Shanghai Jiao Tong Univ.,China;Hefei National Laboratory- Shanghai Branch,China;Shanghai Research Center for Quantum Sciences ,China; Beijing Univ. of post and telecommunications,China)

Tu8-3 **09:15-09:30**

Engineering Random-Telegraph-Noise Spectroscopy in Optically Pumped Atomic Magnetometers
Xu-xing Geng and Gao-xiang Li(Central China Normal Univ.,China)

Tu8-4 **09:30-09:45**

Microwave-field quantum metrology with inherent robustness against detection losses enabled by Rydberg interactions
Stanisław Kurzyna,Bartosz Niewelt,Mateusz Mazelanik,Wojciech Wasilewski,Rafał Demkowicz-Dobrzański and Michał Parniak(Univ. of Warsaw, Poland)

Tu8-5 **09:45-10:00**

Fully optical Rydberg atomic radio frequency receiver
Sebastian Borówka,Mateusz Mazelanik,Wojciech Wasilewski,Michał Parniak(Univ. of Warsaw, Poland)

Coffee Break

Session Title	Precision Measurements and Quantum Optical Metrology, including Matter-wave Interferometry, Quantum Optical Interferometry, Quantum Enhanced Metrology and Sensing II
Session Time	10:30-12:15
Session Chair(s)	Jiefei Chen (Southern Univ. of Science and Technology ,China)

Tu8-6 **10:30-11:00**

Quantum memory at telecom wavelengths using Erbium-Ion Ensembles (Invited Paper)
Xiao-Song Ma(Nanjing Univ., China)

Tu8-7 **11:00-11:15**

Quantum Twin Interferometer
Du Wei(Beijing Univ. of Post and Telecommunications,China; Hanghai Jiao Tong Univ.,China); Wu Shuhe, Bao Guzhi and Zhang Weiping(Shanghai Jiao Tong Univ.,China)

Tu8-8 **11:15-11:30**

Phase-Independent Quantum Interferometer Based on Non-Gaussian Entangled States
Hongbin Song(The Chinese Univ. of Hong Kong, Shenzhen-General Education Division,China);Heyu Huang (Wuhan Univ. of Technology,China);Haohai Wu(The Chinese Univ. of Hong Kong, Shenzhen-General Education Division, China);Guofeng Zhang(The Hong Kong Polytechnic Univ.,Hong Kong,China);Hidehiro Yonezawa (RIKEN Center for Quantum Computing, Japan);Ai Zhou(Wuhan Univ. of Technology,China);Shitai Yang(Guilin Univ. of Electronic Science and Technology,China)

Tu8-9 **11:30-11:45**

Advanced quantum metrology with Hong-Ou-Mandel interferometers
Rui-Bo Jin and Hui Jing(Hunan Normal Univ.,China)

Tu8-10 **11:45-12:00**

Quantum Metrology in Non-Hermitian Systems
Chengjie Zhang(Ningbo Univ.,China)

Tu8-11 **12:00-12:15**

Quantum Metrology with Higher-order Exceptional Points via Hermitian Magnon-photon Interaction
Shi Minwei,Bao Guzhi,Guo Jinxian and Zhang Weiping(Shanghai Jiao Tong Univ.,China)

Lunch

Poster Session (13:00-14:30)

C09

Micro-, Nano-, and Low-Dimensional Photonics

Conference Room: ROOM 303

Conference Date: Aug.4 (Tue.)-Aug.6 (Thu.)

Co-chairs

Yidong Huang (Tsinghua Univ., China)
Fumio Koyama (Tokyo Institute of Technology, Japan)
Jean-Michel Gérard (PHELIQS, France)

Members

Dangyuan Lei (City Univ. of Hong Kong, Hong Kong, China)
Jesper Levinsen (Monash Univ., Australia)
Jin Liu (Sun Yat-Sen Univ., China)
Ling Lu (Institute of Physics, CAS, China)
Yasutomo Ota (Keio Univ., Japan)
Stephan Reitzenstein (Technical Univ. of Berlin, Germany)
Baile Zhang (Nanyang Technological Univ., Singapore)
Guoqiang Zhang (NTT Basic Research Labs, Japan)
Val Zwiller (KTH, Sweden)

August 4 (Tuesday)

Session Title	Metasurfaces
Session Time	08:30-10:00
Session Chair(s)	Hao Sun (Tsinghua Univ., China)

Tu9-1 **08:30-09:00**

Geometric Phase Controlled Nonlinear Optical Metasurfaces (Invited Paper)
Guixin Li (Southern Univ. of Science and Technology, China)

Tu9-2 **09:00-09:30**

Multi-functional Imaging and Displaying Empowered by Optical Metasurfaces (Invited Paper)
Cheng Zhang (Huazhong Univ. of Science and Technology, China)

Tu9-3 **09:30-09:45**

High-Q Resonances in Plasmonic Nanoparticle Lattices
Xianyu Ao(Shandong Normal Univ.-School of Physics and Optoelectronics, China)

Tu9-4 **09:45-10:00**

Modification of Spectral and Spatial Distributions of Hot Carriers in Plasmonic Nanoparticles
Tomasz Antosiewicz, Katarzyna Kluczyk-Korch and Rania Zaier(Univ. of Warsaw, Poland)

Coffee Break

Session Title	Micro/nano-photonic Active and Passive Devices
Session Time	10:15-12:15
Session Chair(s)	Guixin Li (Southern Univ. of Science and Technology, China)

Tu9-5 **10:15-10:45**

Supersymmetric Landau Levels in Subwavelength Type-I Dirac Metasurfaces (Invited Paper)
Shaojie Ma (Fudan Univ., China)

Tu9-6 **10:45-11:15**

Erbium Compound Nanomaterials for On-Chip Optoelectronics: Nanolasers and Photodetectors (Invited Paper)
Hao Sun and Shipeng Yao (Tsinghua Univ., China); Cun-Zheng Ning (Shenzhen Technology Univ., China)

Tu9-7 **11:15-11:45**

High-Quality Circularly Polarized Luminescence Generated from Chiral Nanohelices (Invited Paper)
Zhifeng Huang (The Chinese Univ. of Hong Kong, Hong Kong, China)

Tu9-8 **11:45-12:00**

Polarization-Resolved Analysis of LSPR Orientation Modes in a Planar Waveguide-Integrated Odor Sensor
Junhao Duo, Yuya Sakamoto, Haoze Du, Lingpu Ge, Fumihiro Sassa, Naoya Tate, Kenshi Hayashi and Yuji Oki (Kyushu Univ., Japan)

Tu9-9 **12:00-12:15**

Parity-Gated Nonlinear Quasi-Bound States in the Continuum in X(2) Thin Films
Ardra Muriyankandathil, Parikshit Sahatiya and Nitish Kumar Gupta (Birla Institute of Technology and Science, India)

Lunch

Poster Session (13:00-14:30)

Session Title	Light-matter Interactions in Nanostructures
Session Time	14:30-15:30
Session Chair(s)	Zheng Sun (East China Normal Univ., China)

Tu9-10 **14:30-15:00**

Interacting 2D Excitons with Chiral Plasmonic Nanocavities (Invited Paper)
Xiulai Xu(Peking Univ., China)

Tu9-11 **15:00-15:15**

Dynamic Tuning of MoTe2 Light-Emitting Transistor for Highly Efficient Silicon Waveguide Coupling
Chen Li, Yutong Zhong, Cun-Zheng Ning and Yongzhuo Li (Tsinghua Univ., China)

Tu9-12 **15:15-15:30**

Modified Weak Measurement Model of the Photonic Spin Hall Effect in Weyl semimetals under strain modulation
Mantong Chen, Qi Wang, Yang Li and Qinggang Liu (Tianjin Univ., China)

Coffee Break

Session Title	Low-dimensional Materials
Session Time	16:00-17:45
Session Chair(s)	Xiulai Xu (Peking Univ., China)

Tu9-13 **16:00-16:30**

Carbon Nanotube Plasmonics for Nanophotonic Circuits (Invited Paper)
Sheng Wang(Wuhan Univ.-Physics, China)

Tu9-14 **16:30-17:00**

Electrically Generated Polaron-polaritons in a Monolayer Mose2 Microcavity (Invited Paper)
Yuanjun Guan, Mengyao Xu, Zhe-Yu Shi and Zheng Sun (East China Normal Univ., China)

Tu9-15 **17:00-17:15**

Strain-modulated photonic spin Hall effect in WTe_2 thin films
Qi Wang and Qinggang Liu(Tianjin Univ., China)

Tu9-16 **17:15-17:30**

Ultrafast Optical Switcher Based on MXene-SA Hybrid Mode-Locked Fiber Laser
Qing Wu and Siqian Lv (Harbin Univ. of Science and Technology, China)

Tu9-17 **17:30-17:45**

A Low-threshold Trion Lasing Device from monolayer MoTe2
Chenxin Yu (Tsinghua University ; Shenzhen Technology University, China); Yongzhuo Li (Tsinghua University, China); Cun-Zheng Ning (Shenzhen Technology University, China)

August 5 (Wednesday)

Session Title	Quantum Dots and Nanowires
Session Time	08:30-10:00
Session Chair(s)	Lin Zhou (Nanjing Univ., China)

We9-1 **08:30-09:00**

Unique Properties and Photonic Application Potential of Zincblende InAsP/InP Quantum Dots in Nanowires (Invited Paper)
T. Gzyl, A. Musiał, W. Rudno-Rudziński, G. Sęk and Grzegorz Sęk (Wrocław Univ. of Science and Technology, Poland); G. Bucci, V. Zannier, F. Beltram and L. Sorba (NEST Scuola Normale Superiore and Istituto Nanoscienze CNR, Italy); K. Gawarecki (Wrocław Univ. of Science and Technology, Poland); P. Klenovsky (Masaryk Univ., Czech Republic); E. García-Tabarés and B. Galiana (Universidad Carlos III, Spain)

We9-2 **09:00-09:30**

Fractal Superconducting Nanowire Single-Photon Detectors and Their Applications (Invited Paper)
Xiaolong Hu, Song Li, Shi Yin and Hongsheng Chen (Zhejiang Univ., China); Val Zwiller (Research Institutes of Sweden, Sweden)

We9-3 **09:30-09:45**

Temperature-Insensitive Wavelength Emission in Nanowire-Well Quantum Systems
Yuhong Wang and Chunqing Gao (Beijing Institute of Technology, China)

We9-4 **09:45-10:00**

Band-Edge Assisted Nonlinear Optical Limiting in VS2 Quantum Dots-Embedded TiO2/Cellulose Acetate Photonic Crystal
Hasana Jahan Elamkulavan, Amrutha Shivappanayaka, Dhanusmith A V and Chandrasekharan Keloth (National Institute of Technology Calicut, India)

Coffee Break

Session Title	Light Manipulation and Applications
Session Time	10:30-12:00
Session Chair(s)	Xiaolong Hu (Zhejiang Univ., China)

We9-5 **10:30-11:00**

Free-Space Optical Transmission from Visible to LWIR in Controlled Fog (Invited Paper)
Frédéric Grillot(Laval Univ., Canada)

We9-6 **11:00-11:30**

Full Color Fast Optical Modulation for Adaptive Camouflage (Invited Paper)
Jie Liang, Min Xiong and Lin Zhou (Nanjing Univ., China)

We9-7 **11:30-11:45**

Snapshot Spectral Imaging Chips for Non-Destructive Rapid Detection of Food Spoilage
Ran Li and Kaiyu Cui (Tsinghua Univ., China)

We9-8 **11:45-12:00**

Polarization-Independent Phase Modulator Based on Optically Controlled Liquid Crystal Alignment
Junhao Lu, Jiaqi Li, Zijie Zhou, Junwei Peng, Yuanhui Wen and Yujie Chen(Sun Yat-sen Univ., China)

Lunch

Session Title	Complex Nano-photonic Devices
Session Time	13:30-15:30
Session Chair(s)	Bo Chen (Sun Yat-sen Univ., China)

We9-9 **13:30-14:00**

Continuous-wave Operation of Bottom-up Telecom-band Nanowire Lasers (Invited Paper)
Guoqiang Zhang, Masato Takiguchi, Xuejun Xu and Haruki Sanada (NTT Basic Research Laboratories, Japan); Hideki Gotoh (Hiroshima Univ., Japan)

We9-10 **14:00-14:30**

Hybrid Integrated Photonic Quantum Computing and Quantum Simulation (Invited Paper)
Jun Gao (Huazhong Univ. of Science and Technology, China)

We9-11 **14:30-14:45**

Fabrication and Modeling of Plasmonic-Enhanced 2D Semiconductor Photodetectors
Andrey Guskov and Sergey Lavrov (RTU MIREA - Nanoelectronics, Russia)

We9-12 **14:45-15:00**

Intrinsic IMT-Driven Optical Modulation in a VO2-Integrated Nanophotonic Platform
Namhoon Kim (KIST, Korea); Heonjin Choi (Yonsei Univ., Korea); Donghee Park (KIST, Korea)

We9-13 **15:00-15:15**

Double-Heterostructure for Monolayer Semiconductors with Record Efficiency
Yutong Zhong, Chen Li, Chenxin Yu, Cun-Zheng Ning, Yongzhuo Li and Jiabin Feng (Tsinghua Univ., China)

We9-14 **15:15-15:30**

Asymmetric Heterostructure Nanocavity with a Q Factor of 400 Million
Kanemaru Yuta (Osaka Metropolitan Univ., Japan); Asano Takashi (Kyoto Univ., Japan); Takahashi Yasushi (Osaka Metropolitan Univ., Japan)

Coffee Break

Session Title	Light Manipulation based on Nanostructures
Session Time	16:00-17:30
Session Chair(s)	Jun Gao (Huazhong Univ. of Science and Technology, China)

We9-15 **16:00-16:30**

Structured Light Generated by an Integrated Microring Resonator (Invited Paper)
Bo Chen, Jin Liu and Xuehua Wang (Sun Yat-sen Univ., China)

We9-16 **16:30-17:00**

Beam Splitting for Quantum Light and its Applications on Metasurfaces (Invited Paper)
Ying Gu(Peking Univ., China)

We9-17 **17:00-17:15**

Twisted Nano-Optics: steering the flow of electromagnetic energy at will at the nanoscale
Jiahua Duan (Beijing Institute of Technology, China)

We9-18 **17:15-17:30**

Topologically protected spinning of the synthetic Janus particle in the nanohole localized near field
Yuxuan Ren and Cihang Kong (Jinshan Hospital, China); Johannes Frueh and Sven Rutkowski (National Research Tomsk Polytechnic Univ., Russia); Kenneth K. Y. Wong (Hong Kong Univ., Hong Kong, China)

August 6 (Thursday)

Session Title	High-performance Nanoscale Active Devices
Session Time	08:30-10:00
Session Chair(s)	Fang LIU (Tsinghua Univ., China)

Th9-1 **08:30-09:00**

High-Speed 1060nm Coupled-Cavity VCSEL Arrays for Next-Generation CPO and AI Interconnects (Invited Paper)
Fumio KOYAMA (Institute of Science Tokyo, Japan)

Th9-2 **09:00-09:30**

Nonlocal Phase-Gradient Metasurfaces Based on van der Waals Materials (Invited Paper)
Tao Wang, Yuefeng Wang and Xingwang Zhang (Suzhou Institute of Nano-tech and Nano-bionics, CAS, China)

Th9-3	09:30-09:45

Integration of Erbium Oxychloride Nanosheets via Silicon Slot Waveguides with Enhanced Light-Matter Interaction
Zexu Yin, Hao Sun, Yidong Huang and Wei Zhang (Tsinghua Univ., China)

Th9-4	09:45-10:00

All-TMDC microdisk heterostructure lasers
Prokhor Alekseev, Mikhail Popov, Kseniya Gasnikova, Ilya Eliseyev and Valery Davydov (Ioffe Institute, Russia)

Coffee Break

Session Title	Interaction Between Electrons and Nanostructures
Session Time	10:30-12:15
Session Chair(s)	Xingwang Zhang (Suzhou Institute of Nano-tech and Nano-bionics, CAS, China)

Th9-5	10:30-11:00

Deterministic generation of a large-scale multi-photon GHZ state (Invited Paper)
David Gershoni (Technion - Israel Institute of Technology, Israel)

Th9-6	11:00-11:30

Free-Electron Radiation and Electron Wave-Function Shaping with Micro- and Nanostructures (Invited Paper)
Fang LIU(Tsinghua Univ., China)

Th9-7	11:30-11:45

Nanophotonic Chip-space Interfaces for Multidimensional Optics Enabled by Nonlinear Cerenkov Radiation
Dunzhao Wei(Sun Yat-sen Univ., China)

Th9-8	11:45-12:00

Parity-based geometric quasi-phase matching for electron longitudinal and transverse selective modulation
Chenyi Yang, Ziyang Liu and Qianqian Wang (Beijing Institute of Technology, China)

Th9-9	12:00-12:15

Dyakonov Surface Waveguide Modes in Asymmetric Interfacial Waveguide
Olga Borovkova, Ivan Stepanov and Dmitry Chermoshentsev (Russian Quantum Center, Russia)

Lunch

C10
Optical Communication Systems and Networks

Conference Room: ROOM 305D
Conference Date: Aug.4 (Tue.)-Aug.6 (Thu.)

Co-chairs

Jie Zhang (Beijing Univ. of Posts and Telecommunications, China)
Takeshi Hoshida (1Finity Inc.,Japan)
Qiang Chen (Tohoku Univ., Japan)

Members

Keisuke Kasai (Tohoku Univ., Japan)
Massimo Tornatore (Politecnico di Milano, Italy)
Chao Lu (The Hong Kong Polytechnic Univ., Hong Kong, China)
Sugang Xu (National Institute of Information and Communications, Japan)
Hoon Kim (Korea Advanced Institute of Science and Technology, Korea)
Xiangjun Xin (Beijing Institute of Technology, China)
Gangxiang Shen (Soochow Univ., China)
Ming Tang (Huazhong Univ. of Science and Technology, China)
Qunbi Zhuge (Shanghai Jiao Tong Univ., China)
Yixin Wang (Beijing Univ. of Posts and Telecommunications,China)

August 4 (Tuesday)

Session Title	Fiber-optic communication systems
Session Time	08:30-10:00
Session Chair(s)	Jie Zhang (Beijing Univ. of Posts and Telecommunications, China)

Tu10-1	08:30-09:00

A Review of 200G-PON Direct Detection Technologies: Requirements, Candidates and Coexistence (Invited Paper)
Huang Luyao,Zhang Dezhi and Jiang Ming(China Telecom Research Institute, China)

Tu10-2	09:00-09:15

Lightning-Strike-Resistant OPGW Cable Integrating Hollow-Core Anti-Resonant Fiber for Grid Communications
Hongguang Sun,Ming Luo and Cheng Liu(China Information Communication Technologies Group Corporation, China); Li Yuan(China Univ. of Geosciences, China);Zhongmiao Kang (Guangdong Power Grid Power Dispatch Control Center, China);Ying Qiu (China Information Communication Technologies Group Corporation, China);Xiang Li(China Univ. of Geosciences, China);Yunlong Bai,Hanbin Li,Liang Mei,Yinqiu Gui,QingQing Qi,Yan Wu and Yi Chen(China Information Communication Technologies Group Corporation, China)

Tu10-3 **09:15-09:30**

A novel hybrid method for EPON/10G-EPON/50G-PON triple-generation coexistence
Dezhi Zhang and Jialiang Jin(China Telecom Research Institute, China);Tao Dong(China Telecom Corporation Limited, China);Xiangjun Xin(Beijing Institute of Technology, China);Fanglong Hu and Ming Jiang(China Telecom Research Institute, China);Peng Zhang(Anhui Telecom Planning and Designing CO. LTD, China);Rui Li and Jie Liu(Fiberhome Telecommunication Technologies Co.,LTD, China);Zhe Du(China Telecom Research Institute, China);Ze Dong(Beijing Institute of Technology, China);Qinghua Tian(Beijing Univ. of Posts and Telecommunications, China)

Tu10-4 **09:30-09:45**

High-sensitivity Auxiliary Management and Control Channel Detection for Very High Speed PON Based on Frequency Domain Separation of Native Devices
Zhiwen Fan,Pengzhuo Sun,Yang Zou,Zipeng Liang,Xiaoxiao Dai,Qi Yang,Deming Liu and Shenmao Zhang(Huazhong Univ. of Science and Technology, China)

Tu10-5 **09:45-10:00**

Two-Tier Game-Theoretic Resource Allocation for NOMA-Enabled HCF-PON
Feiyu Jiao and Rui Jiang(Pengcheng Laboratory, China);Yuting Zhou and Yansong Du(Tsinghua Univ., China);Zhaopeng Xu(Pengcheng Laboratory, China);Jian Song and Xun Guan(Tsinghua Univ., China);Rui Jiang(Pengcheng Laboratory, China)

Coffee Break

Session Title	Fiber-optic communication systems
Session Time	10:20-11:50
Session Chair(s)	Jie Zhang (Beijing Univ. of Posts and Telecommunications, China)

Tu10-6 **10:20-10:50**

Ultra-Large-Capacity Transmission System Based on Bridge-Reinforced Anti-Resonant Hollow-Core Fiber (Invited Paper)
Ran Gao (Beijing Institute of Technology,China)

Tu10-7 **10:50-11:05**

Low-Cost Transmitter-side Calibration of IQ Skew for Coherent Optical Systems
Zhuo Wang,Haolei Gao,Jun Dong,Yifan Gou,Zhongwei Tan,Yi Dong and Tianwai Bo(Beijing Institute of Technology, China)

Tu10-8 **11:05-11:20**

Eye-Skew Compensation for In-vehicle Optical Fiber Communication Systems under Wide-Temperature Environments
Hang Xiao,Yuyang Gao,Jiaxin Han,Leilei Liu,Jing Sun,Youle Ni,Kuohai Zhang and Xian Zhou(Univ. of Science and Technology Beijing, China)

Tu10-9 **11:20-11:35**

Low-Complexity Dynamic Probabilistic Amplitude Shaping with Incremental Trellis for Elastic Optical Networks
Changfeng Wang(Tsinghua Univ., China); Rui Jiang and Xinke Tang(Pengcheng Laboratory, China); Jian Song and Yuhan Dong(Tsinghua Univ., China)

Tu10-10 **11:35-11:50**

Experimental validation of the closed-form GN model in a 140GBd C+L long-haul transmission system
Junwen Guo,Yifeng Gao,Yanqin Wang,Yicheng Jin and Ning Liu(Soochow Univ., China)

Lunch

Poster Session (13:00-14:30)

Session Title	Network elements and subsystems for routing and switching
Session Time	14:20-15:35
Session Chair(s)	Jie Zhang (Beijing Univ. of Posts and Telecommunications, China)

Tu10-11 **14:20-14:50**

High-Speed Optical Modulation Chips and Modules (Invited Paper)
Yang Yue (Xi'an Jiaotong Univ., China)

Tu10-12 **14:50-15:20**

Multi-dimensional Photonic Integration, Interconnection and Signal Processing (Invited Paper)
Junwen Zhang (Fudan Univ.,China)

Tu10-13 **15:20-15:35**

Advanced Multi-Mode Optical Interconnects via Multi-algorithm Design and Phase-change Materials
Mingyu LUO and Chao LU(The Hong Kong Polytechnic Univ., Hong Kong, China)

Coffee Break

Session Title	Network elements and subsystems for routing and switching
Session Time	15:55-17:25
Session Chair(s)	Jie Zhang (Beijing Univ. of Posts and Telecommunications, China)

Tu10-14 **15:55-16:25**

Programmable Photonic Integrated Chips (Invited Paper)
Zhaohui Li (Sun Yat-sen Univ., China)

Tu10-15 **16:25-16:55**

Research on Key Technologies of Optoelectronic Integrated Reservoir Channel Equalization Chip (Invited Paper)
Pei Li (Key Lab of All Optical Network & Advanced Telecommunication Network, Ministry of Education, China)

Tu10-16 **16:55-17:10**

Dispersion Pre-Compensated Non-Orthogonal Digital-Analog Hybrid Optical Transmission in Multi-Distance Optical Access Network
Park Jinwoo,Lee Joungmoon and Han Sang-Kook(Yonsei Univ., Korea)

Tu10-17 **17:10-17:25**

Experimental Evaluation of OFDM and UFMC in Measurement-Driven Photonic Terahertz Links
Safa Alghadi and Shuo Li(Royal Melbourne Institute of Technology, Australia); Mariam Abdullah and withawat withayachumnankul(Adelaide Univ., Australia); Ke Wang and Safa Alghadi(Royal Melbourne Institute of Technology , Australia)

August 5 (Wednesday)

Session Title	Digital signal processing and error correction techniques for optical systems
Session Time	08:30-10:00
Session Chair(s)	Jie Zhang (Beijing Univ. of Posts and Telecommunications, China)

We10-1 **08:30-09:00**

Advanced DSP for 400G PAM-4 IMDD Receivers (Invited Paper)
Nebojsa Stojanovic,Tom Jonas Wettlin,Maxim Kuschnerov,Tianyuan Kong,Stefano Calabro,Xianbo Dai,Ben Yacoub Emna and Xhemrishi Marvin(Huawei, China)

We10-2 **09:00-09:15**

300 Gb/s/λ OOK Transmission over 1-km SSMF Enabled by Spectrum Compression Filter at C-band
Chao Yang,Jin Tao,Yuhan Gong and Tingyi Zhou(China Information Communication Technologies Group Corporation, China);Chao Li and He Zhixue(Peng Cheng Laboratory, China);Hanbin Li and Ming Luo(China Information Communication Technologies Group Corporation, China)

We10-3 **09:15-09:30**

224-Gb/s PAM4 Transmission over 25-km SSMF Using Gerchberg-Saxton Iteration-Aided VDFE at C-Band
Zhang Zhixin,Du Zhuorong,Lin Hong,Zhou Jiahao,Hu Shaohua,Qin Yujie and Zhang Jing(Univ. of Electronic Science and Technology of China, China);Xu Zhaopeng(Peng Cheng Laboratory, China);Xu Bo,Yu Peijun,Qiu Kun and Hu Shaohua(Univ. of Electronic Science and Technology of China, China)

We10-4 **09:30-09:45**

Residual Phase Noise in FPT-Based CPE: Mechanism Analysis and ML-Based Compensation
Quhao Zhuo,Huiyang Yu,Bang Yang,Yanfu Yang and Yanfu Yang(Harbin Institute of Technology, China)

We10-5 **09:45-10:00**

Analysis and Compensation of Crosstalk-Induced Errors in Multi-Tone-Based Frequency-Response Monitoring of Coherent Optical Transceivers
Wenyang Wang,Tianyi Li,Quhao Zhuo and Bang Yang(Harbin Institute of Technology, China); Qian Xiang,Yinghui Wang,Tianjian Zuo and Sen Zhang(Huawei Technology Co.Ltd, China); Yanfu Yang(Harbin Institute of Technology, China)

Coffee Break

Session Title	Digital signal processing and error correction techniques for optical systems
Session Time	10:15-11:45
Session Chair(s)	Jie Zhang (Beijing Univ. of Posts and Telecommunications, China)

We10-6 **10:15-10:45**

Volterra Nonlinear Equalizers for High-Speed IM/DD Transmission Systems (Invited Paper)
Jaeyoon Kim and Hoon Kim(Korea Advanced Institute of Science and Technology, Korea)

We10-7 **10:45-11:00**

End-to-End Learning Enabled Optimization of FEC Decoder for Very High Speed PON
Xinran Huang,Yujia Mu,Ze Dong,Ming Jiang and Dezhi Zhang(China Telecom Research Institute, China)

We10-8 **11:00-11:15**

An Accelerated Search Method for Deep-Depth Probability-Maintained Notch Sequence Generation
Jingnan Li(Nagoya Univ., Japan); Tong Ye and Xiaofei Su(Fujitsu Research & Development Center Co., Ltd., Japan); Hisao Nakashima,Takeshi Hoshida and Yasuhiko Aoki(1Finity Inc., Japan); Zhenning Tao(Fujitsu Research & Development Center Co., Ltd., Japan); Yojiro Mori and Hiroshi Hasegawa(Nagoya Univ., Japan)

We10-9 **11:15-11:30**

Detection of Burst Errors for Pluggable Optical Transceivers through Symbol Error Distribution
Yuxiang Huang(Xi'an Jiaotong Univ., China);David Kaibo Wang(Carlmont School, USA); Zhongqi Pan(Univ. of Louisiana at Lafayette, USA); Yang Yue(Xi'an Jiaotong Univ., China)

We10-10 **11:30-11:45**

Separation and Characterization of Transceiver Frequency Responses in IM/DD Systems
Tianyi Li,Wenyang Wang,Quhao Zhuo,Yongchao Jin and Yanfu Yang(Harbin Institute of Technology, China)

Lunch

Session Title	Free-space and underwater optical communication links and the mitigation of channel effects
Session Time	13:15-15:15
Session Chair(s)	Jie Zhang(Beijing Univ. of Posts and Telecommunications, China)

We10-11 **13:15-13:45**

Fully Coherent Optical and Wireless Transmission Using Injection-Locked Carrier Frequency Conversion technique (Invited Paper)
Keisuke Kasai,Masato Yoshida,Toshihiko Hirooka and Masataka Nakazawa (Tohoku Univ., Japan)

We10-12 **13:45-14:00**

Microclimate-Driven Characterization of a Short-Range Indoor FSO System
Frederico Campos,Renan Matheus Soares Silva and Arismar Sodré Júnior(National Institute of Telecommunications, Brazil);Evandro Conforti(Univ. of Campinas, Brazil);Paulo Kiohara and Felipe Pinto(National Institute of Telecommunications, Brazil)

We10-13 **14:00-14:15**

Receiver-Oriented Characterization of Doppler Dynamics in Coherent LEO Inter-Satellite Optical Links
Yiliang Zhang and Nan Cui(Beijing Univ. of Posts and Telecommunications, China)

We10-14 **14:15-14:30**

Doppler Tracking for LEO Inter-Satellite Laser Links under Orbital Constraints with EKF-Based Compensation
Honglu Xu,Yuan Jiang,Shuying Ao,Yiliang Zhang,Yumeng Wang and Nan Cui(Beijing Univ. of Posts and Telecommunications, China)

We10-15 **14:30-14:45**

Turbulence-Resilient Free-Space Optical Receiver with Multi-Mode Fiber and Adaptive Photonic Circuit
Mengyuan Jiang,Takahiro Suganuma and Yusuke Tsubai(The Univ. of Tokyo, Japan); Takahiro Suzuki,Hitomi Ono and Hikari Mochizuki(Mitsubishi Electric, Japan); Takuo Tanemura(The Univ. of Tokyo, Japan)

We10-16 **14:45-15:00**

High-Speed Indoor Optical Wireless Communication with Fast Visual Tracking and Alignment for Dynamic Scenarios
Bohao Chen and Jian Song(Tsinghua Univ., China)

We10-17 **15:00-15:15**

Atmospheric Turbulence as Wavefront Heating
Gabrielle Vaz(Instituto Superior Técnico, Portugal); Marcio H. G. de Miranda,Ernesto P. Raposo and Anderson Amaral(Universidade Federal de Pernambuco, Brazil)

Coffee Break

Session Title	Free-space and underwater optical communication links and the mitigation of channel effects
Session Time	15:30-17:30
Session Chair(s)	Jie Zhang (Beijing Univ. of Posts and Telecommunications, China)

We10-18 **15:30-16:00**

High-Sensitivity Bio-inspired Optical Fiber Sensing Technology and its Applications (Invited Paper)
Qizhen Sun(Huazhong Univ. of Science and Technology ,China)

We10-19 **16:00-16:30**

Integrated optical fiber communication and distributed sensing systems (Invited Paper)
Chao LU (The Hong Kong Polytechnic Univ., Hong Kong, China)

We10-20 **16:30-16:45**

Low-cost and Ultra-Fast SOP-Based Lightning Sensing Integrated Into IM/DD Communication Systems
Huiyang Yu,Quhao Zhuo,Yang Bang,Jianwei Tang,Shuang Gao and Yanfu Yang(Harbin Institute of Technology, China)

We10-21 **16:45-17:00**

Forward-Transmission Multi-Source Vibration Sensing Using DUET
Xiaolai Fu,Xinke Tang,Xu Zhang and Zhixue He(Pengcheng Laboratory, China);Jian Song and Jintao Wang(Tsinghua Univ., China)

We10-22 **17:00-17:15**

Optical-Injection-Locking-Based Power Boosting of 2-Gbit/s QPSK Signals toward Coherent Underwater Optical Wireless Communications
Yasuhiro Okamura and Masanori Hanawa(Univ. of Yamanashi, Japan)

We10-23 **17:15-17:30**

Average intensity and spreading properties of partially coherent four-petal elliptic Gaussian vortex beams in oceanic turbulence
Yuhui Kong,Jiadi Qu and Ernan Ju(Dalian Neusoft Univ. of Information, China)

August 6 (Thursday)

Session Title	Architecture, networking, control and management technologies for optical networks
Session Time	08:30-10:00
Session Chair(s)	Jie Zhang (Beijing Univ. of Posts and Telecommunications, China)

Th10-1 **08:30-09:00**

Optical network standardization latest progress in ITU-T SG15 (Invited Paper)
Shikui Shen (China Unicom Research Institute,China)

Th10-2	09:00-09:30

NxN wavelength cross connects for scaling up ROADM degress (Invited Paper)
Yunfei Wu and Zeshan Chang (Huawei Technologies Co., Ltd. ,China)

Th10-3	09:30-09:45

Optimal Deployment of Limited Hollow-Core Fiber Resources Using Amplifier Spans as Upgrade Units in Elastic Optical Networks
Huichao Xu,Mingyu Weng and Yongcheng Li(Soochow Univ., China)

Th10-4	09:45-10:00

First Field Demonstration of Data-driven QoT Estimation for Multi-vendor in 400G/800G C+L-band ROADM Networks
Xin Qin,Zheqing Lv,Xiaotian Jiang,Jie Liu,Guoyong Zhao,Yadong Gong,Xiaoli Huo and Junjie Li(Chinatelecom, China)

Coffee Break

Session Title	Architecture, networking, control and management technologies for optical networks
Session Time	10:30-12:00
Session Chair(s)	Jie Zhang (Beijing Univ. of Posts and Telecommunications, China)

Th10-5	10:30-11:00

Requirement and Progress of AI Data Center (aiDC)-Oriented Optical Network Technology (Invited Paper)
Dechao Zhang(China Mobile Research Institute, China)

Th10-6	11:00-11:15

Cross-Topology Few-Shot QoT Estimation via Latent MMD Weighting
Haojie Wang,Jie Zhang and Yixin Wang(Beijing Univ. of Posts and Telecommunications, China)

Th10-7	11:15-11:30

Recent Progress on Technologies and Applications of AI-Enhanced Broadband Network
Huang Luyao,Zhang Dezhi and Jiang Ming(China Telecom Research Institute, China)

Th10-8	11:30-11:45

Cascaded Learning-based Framework for QoT Estimation in Large Scale Field-deployed Networks
Xiaotian Jiang(China Telecom Research Institute, China);Xiaofeng Wu(China Telecom Corporation Limited Intelligent Cloud-Network Operation Center, China);Xin Qin(China Telecom Research Institute, China);Yi Li(China Telecom Corporation Limited Intelligent Cloud-Network Operation Center, China);Yuqing Han(China Telecom Research Institute, China);Boya Sun(China Telecom Corporation Limited Intelligent Cloud-Network Operation Center, China);Zheqing Lv,Guoyong Zhao,Xinyi Zhou,Kai Lv,Yadong Gong,Anxu Zhang and Xiaoli Huo(China Telecom Research Institute, China)

Th10-9	11:45-12:00

Signaling-Topology Pruning Against Random Inter-Satellite Laser Link Failure in Optical Satellite Network
Tianyi Cheng,Yi An,Zijun Li,Yibo Wang,Yongli Zhao and Wei Wang(Beijing Univ. of Posts and Telecommunications, China)

Lunch

C11

Optical Fiber and Waveguide Technologie

Conference Room: ROOM 302

Conference Date: Aug.2 (Sun.)-Aug.4 (Tue.)

Co-chairs

Zuyuan He (Shanghai Jiao Tong Univ., China)
Gang-Ding Peng (New South Wales Univ., Australia)
Shinji Yamashita (The Univ. of Tokyo, Japan)

Members

Wei Ding (Jinan Univ., China)
Xinyu Fan (Shanghai Jiao Tong Univ., China)
Tetsuya Hayashi (Sumitomo Electric Industries, Ltd., Japan)
Min Yong Jeon (Chungnam National Univ., Korea)
Yosuke Mizuno (Yokohama National Univ., Japan)
Kwang Yong Song (Chung-Ang Univ., Korea)
Marcelo A. Soto (Universidad Tecnica Federico Santa Maria, Chile)
Yiping Wang (Shenzhen Univ., China)
Liangming Xiong (Yangtze Optical Fibre and Cable, Ltd., China)
Minghong Yang (Wuhan Univ. of Technology)
Hiroshi Takahashi (NTT Access Network Service Systems Laboratories, Japan)

August 2 (Sunday)

Session Title	Optical Fiber Sensing I
Session Time	13:30-15:15
Session Chair(s)	Kwanil Lee (Korean Institute of Science and Technology ,Korea)

Su11-1 **13:30-14:00**

Advances of Optical Fiber Distributed Acoustic Sensors (Invited Paper)
Zuyuan He (Shanghai Jiao Tong Univ., China)

Su11-2 **14:00-14:30**

Anti-Resonant Hollow-Core Infrared Glass Fibers and Mid-Infrared Ultrafast Laser Delivery Applications (Invited Paper)
Haitao Guo(Xi'an Institute of Optics and Precision Mechanics, CAS, China)

Su11-3 **14:30-14:45**

Nanofiber-based Surface Acoustic Wave Forward Brillouin Optomechanical Multiparameter Sensing
Donghe Sheng and Yunlong Chang (Beijing Univ. of Posts and Telecommunications,China); Fujun Sun(Chinese Academy of Sciences ,China); Mingzhen Chen ,Jiaxin Zhe and Huiping Tian (Beijing Univ. of Posts and Telecommunications,China)

Su11-4 **14:45-15:00**

Comparative Analysis of Different Wavelength Calibration Methods in a Simplified Optical Frequency Domain Reflectometry based on Fiber-optic Partial Reflector
Dan Li and Fei Liu(Univ. of Science and Technology Beijing ,China);Yi Zhang(Chinese Academy of Geological Sciences,China);Zhi Wang,Ziyi Xu and Xian Zhou(Univ. of Science and Technology Beijing,China)

Su11-5 **15:00-15:15**

Alignment-free all-fiber optical vortex interferometer based on extended azimuthal complex spectrum analysis
Letian Gu,Qingwen Zhou,Jiaqing Chen,Huiyi Guo,Zhi Wang and Yange Liu(Nankai Univ., China)

Coffee Break

Session Title	Optical Fiber Sensing II
Session Time	16:00-17:15
Session Chair(s)	Haitao Guo (Xi'an Institute of Optics and Precision Mechanics, CAS, China)

Su11-6 **16:00-16:30**

Toward Practical Long-Range BOCDA Sensing: Overcoming Range, Stability, and Loss Limitations(Invited Paper)
Kwanil Lee and Radomyr Diachenko(Korean Institute of Science and Technology ,Korea)

Su11-7 **16:30-16:45**

Optomechanically enhanced fiber-optic sensing technologies
Shiwei Yang and Qiang Zhang (Shanxi Univ., China)

Su11-8 **16:45-17:00**

Dual Dispersion Turning Points in Tri-Core Fiber for High-Sensitivity Directional Curvature Sensing
Fei Pan,Yunhe Zhao,Ya-nan Zhang and Tianjun Zhou(Shanghai Maritime Univ.,China);Siyu Chen and Yunqi Liu(Shanghai Univ.,China)

Su11-9 **17:00-17:15**

Magnetic Fluid-Coated Elliptical-Core Fiber Helical Long- Period Grating Vector Magnetic Field Sensor
Ya-nan Zhang,Yunhe Zhao,Fei Pan and Tianjun Zhou(Shanghai Maritime Univ., China);Li-ao Zuo,Siyu Chen and Yunqi Liu(Shanghai Univ., China);Yunhe Zhao(Shanghai Maritime Univ., China)

August 3 (Monday)

Session Title	Advanced Functional Fiber
Session Time	08:30-10:00
Session Chair(s)	Wei Ding (Jinan Univ., China)

Mo11-1 **08:30-9:00**

Advanced functional fibers by scalable thermal drawing (Invited Paper)
Lei Wei(Nanyang Technological Univ., Singapore)

Mo11-2 **09:00-9:15**

Light-Shaping Fibers from 3D Printed Glass Preforms
Jancich Maxwell,Andrey Machnev,Sohrabpoor Hamed and Alexander Gumennik(Indiana Univ. Bloomington, USA)

Mo11-3 **09:15-9:30**

125-μm Hybrid-Window 5T-DNANF with Dual Transmission Bands at 1.3 μm and 0.8 μm
Jianbin Yang,Qiang Fu,Yuhong Song,Xingyi Liang and Jingchong Wang(Shenzhen Univ., China);Ye Wang and Zhende Zhai(Shenzhen Sublime Photonics Company Ltd., China);Ping Zheng(China Electronics Corporation,China);Chunyu Guo,Peiguang Yan and Junle Qu(Shenzhen Univ., China)

Mo11-4 **09:30-9:45**

Thermally Controlled All-PM Sagnac Filter for Wavelength-Tunable Mode-Locked Fiber Lasers
Yanhua Sha,Maolin Dai,Yuanjun Zhu,Yifan Ma,Shinji Yamashita and Sze Yun Set(The Univ. of Tokyo, Japan)

Mo11-5 **09:45-10:00**

Interconnection Between Solid-Core and Hollow-Core Fibers for High Peak-Power Pulse Delivery
Yaxuan Zhou,Zhangxian Dai,Jiajie Chen,Lin Yu and Cong Zhang(Guangdong Univ. of Technology,China); Xin Zhang(Beijing Univ. of Technology,China);Di Lin and Songnian Fu(Guangdong Univ. of Technology, China);Pu Wang(Beijing Univ.of Technology, China);Yuwen Qin(Guangdong Univ. of Technology,China)

Coffee Break

Session Title	Multimode & Multicore Fiber
Session Time	10:30-11:45
Session Chair(s)	Lei Wei (Nanyang Technological Univ., Singapore)

Mo11-6 **10:30-11:00**

Recent progress in weakly-coupled multicore fiber amplifier technologies (Invited Paper)
Masaki Wada (NTT, Japan)

Mo11-7 **11:00-11:15**

Nonlinear power equipartition of sub-nanosecond pulses in a weakly-coupled 7-core fiber
Nikita Bochkarev,Mikhail Gervaziev,Denis Kharenko,Alena Kolesnikova,Evgeniy Podivilov and Sergey Babin(Institute of Automation and Electrometry SB RAS;Novosibirsk State Univ.,Russia)

Mo11-8 **11:15-11:30**

Converting and filtering higher-order modes using a binary phase plate and a single-mode fiber
Stamatina Georgiou,Rasmus Hvidberg,Jesper Lægsgaard and Lars Rishøj(Technical Univ. of Denmark,Denmark)

Mo11-9 **11:30-11:45**

Beating of Higher-Order Pump Modes in Erbium-Doped Fiber Amplifiers
Robert Petersen(Technical Univ. of Denmark,Denmark); Lars Grüner-Nielsen (Danish Optical Fiber Innovation,Denmark); Poul Kristensen(Lightera Denmark ApS, Denmark);Karsten Rottwitt(Technical Univ. of Denmark,Denmark)

Lunch

Session Title	Characterization Techniques
Session Time	13:30-15:15
Session Chair(s)	Hideaki Murayama (The Univ. of Tokyo, Japan)

Mo11-10 **13:30-14:00**

Classical and quantum nonlinear optics in 2D materials-integrated optical fiber devices (Invited Paper)
Dong-Il Yeom(Ajou Univ., Korea)

Mo11-11 **14:00-14:30**

Advanced distributed and non-destructive characterization of anti-resonant hollow-core fibers (Invited Paper)
Wei Ding(Jinan Univ., China)

Mo11-12 **14:30-14:45**

Towards accurate characterization of low-loss two-mode AR-HCFs by combining OSLR and S2 imaging techniques
Junjie Tao,Zijie Yang,Yizhi Sun,Yinghui Zhang,Min Yu,Shoufei Ga,Yingying Wang and Wei Ding(Jinan Univ.,China)

Mo11-13 **14:45-15:00**

Experimental investigation on broadband polarization principal axis in ARFs based on a cascade model
Rui He,Yizhi Sun,Qingqing chen,Shoufei Gao,Yingying Wang and Wei Ding(Jinan Univ.,China)

Mo11-14 **15:00-15:15**

Polarization Dynamics in Vehicular Optical Links Under Severe Vibrations and Shocks
Qin Liang,Ziheng Liu,An He and Gordon Ning Liu(Soochow Univ.,China)

Coffee Break

Session Title	Optical Fiber Sensing III
Session Time	16:00-17:15
Session Chair(s)	Dong-Il Yeom (Ajou Univ., Korea)

Mo11-15 **16:00-16:30**

Digital Twin Using Fiber-Optic Distributed Sensors for Structural Integrity Assessment (Invited Paper)
Hideaki Murayama (The Univ. of Tokyo, Japan)

Mo11-16 **16:30-16:45**

Mid-infrared comb generation in dispersion-engineered silica nanowire
Seth Mathew V,Neha Ahlawat and Ravi Pant(IISER Thiruvananthapuram,India)

Mo11-17 **16:45-17:00**

Ultra-Broadband Sensing System in Fiber Ring Resonators Based on Dual-Carrier PDH Decoupling
Shuang Zhang(Wuhan Univ. of Science and Technology, China);Shihao Zhou(Shenyang Aerospace Univ., China);Li Xiong(Wuhan Univ. of Science and Technology, China);Kun Xiao,Rui Min and Zhuo Wang(Beijing Normal Univ., China)

Mo11-18 **17:00-17:15**

Fast and high-resolution spectroscopy with dispersion-tuned wavelength-swept fiber laser
Hongxu Chen,Maolin Dai,Yifan Ma,Naoki Yamaguchi,Szeyun Set and Shinji Yamashita(The Univ. of Tokyo, Japan)

August 4 (Tuesday)

Session Title	Design and Fabrication
Session Time	08:30-09:45
Session Chair(s)	Shaobo Fang (Institute of Physics, CAS, China)

Tu11-1 **08:30-09:00**

Interstitial-Tube assisted Hollow-core Fiber for future network (Invited Paper)
Yingying Wang(Jinan Univ.,China)

Tu11-2 **09:00-09:15**

High-Contrast Resonances in Dielectric-Coated W-Type Fiber Fabry–Perot Cavities via Diffraction Control
Lu Wang,Siyan Wang,Zhexu Huang,Suwan Sun,Yanhua Luo and Hairun Guo(Shanghai Univ., China)

Tu11-3 **09:15-09:30**

Intermodal Brillouin-enhanced multiple-wave mixing in few-mode nano-bore photonic crystal fiber
Jiuming Zhao,Ruochen Yin,Wenbin He,Jiapeng Huang,Zhiyuan Huang and Xinglin Zeng(Shanghai Institute of Optics and Fine Mechanics,CAS,China)

Tu11-4 **09:30-09:45**

Theoretical and Numerical Investigation of Ellipicity-Driven Adiabatic Mode Evolution in High-Index-Contrast Optical Fibers
Tao Zhang,Lixin Xiang and Tomohiro Amemiya(Institute of Science Tokyo,Japan);Katsunori Nishiura,Takuo Shikama and Kensuke Otsuka(Mitsui Chemicals, Inc.,Japan)

Coffee Break

Session Title	Nonlinear Effects
Session Time	10:30-12:00
Session Chair(s)	Yingying Wang (Jinan Univ.,China)

Tu11-5 **10:30-11:00**

High-power High-repetition-rate Single-cycle Pulses (Invited Paper)
Shaobo Fang(Institute of Physics, CAS, China)

Tu11-6 **11:00-11:15**

Polarization-Purified Raman Conversion in a N2-Filled Polarization-Maintaining Hollow-Core Fiber
Qi Xianhao(Jinan Univ.,China); Arcos Pau(Univ. of the Basque Country,Spain); Sun Yizhi,Gao Shoufei and Ding Wei(Jinan Univ.,China); Novoa David(Univ. of the Basque Country,Spain);Wang Yingying(Jinan Univ.,China)

Tu11-7 **11:15-11:30**

Strong forward Brillouin scattering of cylindrical vector modes in nano-bore photonic crystal fiber
Jiuming Zhao,Yufan Ning,Ruochen Yin,Wenbin He,Jiapeng Huang,Zhiyuan Huang,Jinxin Zhan,Xin Jiang,Meng Pang,Long Zhang and Xinglin Zeng(Shanghai Institute of Optics and Fine Mechanics,CAS,China)

Tu11-8 **11:30-11:45**

Toward Compact In-Fiber Nonlinear Devices via Efficient Frequency Conversion in GaN Hole-type Circular Bragg Nanocavity
Mahsa Haddadi Moghaddam,Kirlie Iulius Figuera Michal and Je Hyung Kim(Ulsan National Institute of Science and Technology,Korea)

Tu11-9 **11:45-12:00**

Polarization Control of Brillouin-Kerr Frequency Combs
Kanad Pathak (IISER Thiruvananthapuram, India); Akhileshwar Mishra (Univ. of Twente, Netherlands); Ravi Pant (IISER Thiruvananthapuram, India)

Lunch
Poster Session (13:00-14:30)

C12

Semiconductor Lasers and Optoelectronic Devices

Conference Room: ROOM 305C

Conference Date: Aug.2 (Sun.)-Aug.5 (Wed.)

Co-chairs

Yong-Zhen Huang (Chinese Academy of Sciences, China)
Di Liang (Univ. of Michigan-Ann Arbor, United States)
Boon S. Ooi (Abdullah Univ. of Science and Technology, Saudi Arabia)
Xingjun Wang (Peking Univ., China)

Members

Qing Gu (North Carolina State Univ., United States)
Weihua Guo (Huazhong Univ. of Science and Technology, China)
Daehwan Jung (Korea Institute of Science and Technology, Korea)
Fumio Koyama (Institute of Science Tokyo, Japan)
Hamza Kurt (Korea Advanced Institute of Science and Technology,Korea)
Sang-Shin Lee (Kwangwoon Univ., Korea)
Huiyun Liu (Univ. College London, United Kingdom)
Songtao Liu (Intel Labs, United States)
Ren-Min Ma (Peking Univ.,China)
Takasumi Tanabe (Keio Univ., Japan)
Lai Wang (Tsinghua Univ., China)
Yuede Yang (Institute of Semiconductors CAS, China)
Bao-Ping Zhang (Southern Univ. of Science and Technology, China)

August 2 (Sunday)

Session Title	GaN Based Lasers
Session Time	14:30-15:30
Session Chair(s)	C C Yang (Taiwan Univ., Taiwan, China)

Su12-1 **14:30-15:00**

GaN-based edge- and surface-emitting lasers (Invited Paper)
Qian Sun (Suzhou Institute of Nano-Tech & Nano-Bionics, CAS, China)

Su12-2 **15:00-15:15**

Fabrication of visible and ultraviolet GaN based VCSELs
Mei Yang, Yang Tao, Ma Li-Long, Zou Zhi-Jie, Xia Yu-Bing, Ying Lei-Ying and Zhang Bao-Ping (Xiamen Univ., China)

Su12-3 **15:15-15:30**

Strain Effects and Optical Confinement in GaN-Based Microdisk Lasers with Different Underlying Structures
Quan Peng, Lilong Ma, Hongkun Zhong, Leiying Ying and Yang Mei (Xiamen Univ., China); Baoping Zhang (Southern Univ. of Science and Technology, China)

Coffee Break

Session Title	Wide-gap Semiconductor Lasers and LEDs
Session Time	16:00-17:15
Session Chair(s)	Qian Sun (Suzhou Institute of Nano-Tech & Nano-Bionics, CAS, China)

Su12-4 **16:00-16:30**

Light-Emitting Devices Based on Near-Field Optics: Surface Plasmon and Förster Resonance Energy Transfer (Invited Paper)
Shaobo Yang, Yang Kuo and C. C. (Chih-Chung) Yang (Taiwan Univ., Taiwan, China)

Su12-5 **16:30-17:00**

Optimization of Remote Phosphor Converters for High-Power Laser-Driven White-Light Generation in Searchlight Applications (Invited Paper)
Seung-Min Lee (Goodi-Tech Co., Ltd., Korea); Sang-Shin Lee (Kwangwoon Univ., Korea); Jae-Hyoung Ryu and Hong-Shik Lee (KIEL Institute, Korea)

Su12-6 **17:00-17:15**

Characterizing and manipulation of the modes of a blue laser diode with a double-grating external cavity
Yaodan Hu (National Univ. of Defense Technology, China); Xiahui Tang (Huazhong Univ. of Science and Technology, China)

August 3 (Monday)

Session Title	On-chip integrated semiconductor lasers
Session Time	08:30-09:30
Session Chair(s)	Yue-De Yang (Institute of Semiconductors, CAS, China)

Mo12-1 **08:30-09:00**

Resonator-enhanced distributed Bragg reflector lasers (Invited Paper)
Chao Xiang (The Univ. of Hong Kong, Hong Kong, China)

Mo12-2 **09:00-09:15**

A Practical Design Baseline for O Band CW DFB Lasers Based on a Simple BH Structure
K-H Huang, Jian Fang, Ming Yu, Xiaoli Ge, Chen Gao, Zhongbao Wu, Cedric Gao, Jiaheng Jing and Kaifeng Yang (Zetta Semiconductor Co., Ltd., China)

Mo12-3 **09:15-09:30**

High-performance topological bulk lasers and magic-angle nanolasers
Zengkai Shao and Renmin Ma(Peking Univ., China)

Coffee Break

Session Title	Quantum Dot Lasers and Optical Comb
Session Time	10:30-11:30
Session Chair(s)	Chao Xiang (The Univ. of Hong Kong, Hong Kong, China)

Mo12-4 **10:30-11:00**

III-V Quantum Dot Frequency Combs: Enabling Next-Generation CPO and OIO (Invited Paper)
Shujie Pan (Institute of Semiconductors, CAS, China); Junjie Yang (HS Photonics Co., Ltd., China); Siming Chen (Institute of Semiconductors, CAS, China)

Mo12-5 **11:00-11:15**

1550nm quantum dot ultrafast pulse mode-locked laser
WenHao Wu, Xin Song, YuXin Lei, Jun Zhang, Jiayu Zhao, yongyi Chen, Lei Liang, Jia Peng, Yubing Wang, Cheng Qiu, Yue Song, Li Qin and Lijun Wang (Changchun Institute of Optics, Fine Mechanics and Physics, CAS, China)

Mo12-6 **11:15-11:30**

High conversion efficiency integrated soliton microcombs
Wenqi Shi, Yuede Yang, Jinlong Xiao, Youling Chen and Yongzhen Huang (Institute of Semiconductors, CAS, China)

Lunch

Session Title	Information Security and Chaotic Lasers
Session Time	14:30-15:30
Session Chair(s)	Anjin Liu (Institute of Semiconductors, CAS, China)

Mo12-7 **14:30-15:00**

Secure optical links using micro-LEDs generated quantum random numbers and PUFs (Invited Paper)
Boon Ooi (Rensselaer Polytechnic Institute, USA)

Mo12-8 **15:00-15:15**

Entropy Estimation of Self-chaotic Microlasers for High-speed Physical Random Number Generation
Binjuan Lei, Yongzhen Huang, Yongshi Luo, Jinlong Xiao, Youling Chen and Yuede Yang (Institute of Semiconductors, CAS, China)

Mo12-9 **15:15-15:30**

Self-Chaotic Lasers with Bandwidth Broadening Based on PPR
yongshi luo and yuede yang (Institute of Semiconductors, CAS, China)

Coffee Break

Session Title	VCSELs
Session Time	16:00-17:00
Session Chair(s)	Boon Ooi (Abdullah Univ. of Science and Technology, Saudi Arabia)

Mo12-10 **16:00-16:30**

Ultrafast modulation of VCSELs through couplings (Invited Paper)
Chuyu Zhong and Cun-Zheng Ning (Shenzhen Technology Univ., China)

Mo12-11 **16:30-16:45**

High-speed 850-nm oxide-confined VCSEL with a power-bandwidth product of 315.3 mW·GHz
Tianci Yu, Chenxi Hao, Peng Chen, Yiming Wang, Minglu Wang, Bo Yang and Liang Xie (Institute of Semiconductors, CAS, China); Wanhua Zheng (Univ. of Chinese Academy of Sciences, China); Anjin Liu (Institute of Semiconductors, CAS, China)

Mo12-12 **16:45-17:00**

Single Mode Surface-Grating Surface Emitting Lasers with Horizontal Cavity
Nanguo Li, Xiangxi Zeng, Zhang Zhang, Guojiong Li, Yuting Ma, Weihua Guo and Qiaoyin Lu (Huazhong Univ. of Science and Technology, China); Can Liu (Ningbo Ori-Chip Optoelectronics Technology Co. Ltd, China); Xiang Ma (Ningbo Univ., China); Hui Li (Shenzhen Technology Univ., China); Qiang Kan (Institute of Semiconductors, CAS, China)

August 4 (Tuesday)

Session Title	Photonic-electronic-integration
Session Time	08:30-10:00
Session Chair(s)	Haiyan Ou (Technical Univ. of Denmark, Denmark)

Tu12-1 **08:30-09:00**

Integrated Photonics enabling ultra-wideband fibre-wireless communication (Invited Paper)
Xingjun Wang and Yunhao Zhang(Peking Univ., China)

Tu12-2 **09:00-09:15**

Direct Hydrophilic Bonding for III–V/Si Heterogeneous Photonic Integration
Zhimin Yu (Peking Univ., China); Haodong Sun (Institute of Semiconductors, CAS, China); Haowen Shu (Peking Univ., China); Mingjin Wang (Institute of Semiconductors, CAS, China); Xingjun Wang (Peking Univ., China)

Tu12-3 **09:15-09:30**

Analysis of Carrier Transport in GaAs-Based MUTC Photodetectors Using Multiphysics-Coupled Simulation
Qian Yu, Zixuan Cheng, Jian Wang, Zhibiao Hao, Bing Xiong, Changzheng Sun, Lai Wang, Yanjun Han, Hongtao Li, Lin Gan and Yi Luo (Tsinghua Univ., China)

Tu12-4 **09:30-09:45**

A 100-mA Capless Low-Dropout Regulator for Optical Receiver Front-Ends With Enhanced Power-Supply Rejection in 28-nm CMOS
Yan Peng and Wang Xingjun (Peking Univ.; Peng Cheng Laboratory, China); Wu Shenghui (Peng Cheng Laboratory, China)

Tu12-5 **09:45-10:00**

Optical modulation of THz radiation in WSe2/Si structures.
Elizaveta Bulavintseva, Ekaterina Lebedeva, Maryia Lapteva, Sergey Lavrov and Elena Mishina (Russian Technological Univ., Russia)

Coffee Break

Session Title	Photonic Integrated Circuits
Session Time	10:30-11:30
Session Chair(s)	Xingjun Wang (Peking Univ., China)

Tu12-6 **10:30-11:00**

Silicon carbide: an emerging material platform for photonic integrated circuits (Invited Paper)
Haiyan Ou(Technical Univ. of Denmark, Denmark)

Tu12-7 **11:00-11:15**

An On-Chip 4th-Order FIR Optical Pre-Equalization Filter Enabling Transmitter Bandwidth Extension
Huanlu Zhang, Yumeng Liu, Pei Wang, Xinyi Lv, Jingzhi Wang, Dongdong Han, Zhanqiang Hui, Huimin Du and Tiantian Li (Xi'an Univ. of Posts and Telecommunications, China); Zhangfeng Ge (Peking Univ. Yangtze Delta Institute of Optoelectronics, China)

Tu12-8 **11:15-11:30**

Momentum-Space Engineered Asymmetric Meta-Structures for Multi-Channel Mode Converters Toward Cyclic Mode Routing and All-Optical Matrix Computing
Zhenzhao Guo, Yunfeng Lai and Shuying Cheng (Fuzhou Univ., China); Shengbao Wu (Hebei Univ., China)

Lunch

Poster Session (13:00-14:30)

Session Title	Nanolasers
Session Time	14:30-15:30
Session Chair(s)	Bing Xiong (Tsinghua Univ., China)

Tu12-9 **14:30-15:00**

Narwhal Wavefunctions and Nanolasers at the Atomic Scale (Invited Paper)
Ren-Min Ma(Peking Univ., China)

Tu12-10 **15:00-15:15**

Singular dielectric nanolaser with atomic-scale field localization
Yunhao Ouyang, Hongyi Luan, Ziwei Zhao, Wenzhi Mao and Renmin Ma (Peking Univ., China)

Tu12-11 **15:15-15:30**

Reconfigurable moiré nanolaser arrays with phase synchronization
Luan Hongyi, OuYang Yunhao, Zhao Ziwei, Mao Wenzhi and Ma Renmin (Institute of Condensed Matter and Material Physics, China)

Coffee Break

Session Title	Photodetectors
Session Time	16:00-17:30
Session Chair(s)	Haiyan Ou (Technical Univ. of Denmark, Denmark)

Tu12-12 **16:00-16:30**

Thz wave photomixers for 6G wireless communication applications (Invited Paper)
Bing Xiong(Tsinghua Univ., China)

Tu12-13 **16:30-16:45**

Bendable Avalanche Photodiodes for Short-Wave Infrared Detection
Xinru Li (Xidian Univ., China); Jing Yang (Hong Kong Univ. of Science and Technology, Hong Kong, China); Xinrong Wen, Zhenrong Tang, Shuo Ma, Cizhe Fang, Linpeng Gu, Jishen Zhang, Yan Liu and Genquan Han (Xidian Univ., China)

Tu12-14 **16:45-17:00**

Moiré Superlattices-Based Artificial Optoelectronic Neuro-Synapses for Long-Term Information Retention
Chang Xu, Jiajing He, Yan Wang, Zhouyuan Yan, Hongbo Chen, Ningning Dong and Jun Wang (Shanghai Institute of Optics and Fine Mechanics, CAS, China)

Tu12-15 **17:00-17:15**

Suppressing Bit Error Rate of Ge-on-Si Optical Receiver by 8 Orders of Magnitude via Operating Photodiode under Avalanche Photodiode Mode
Beichen Liu, Yinjie Liu, Lai Wang, Zhibiao Hao, Hongtao Li, Yanjun Han, Jian Wang, Bing Xiong, Changzheng Sun, Lin Gan, Yi Luo and Jiyuan Zheng (Tsinghua Univ., China)

Tu12-16 **17:15-17:30**

Wafer-Scale Room-Temperature Deposition of Lead-Free Perovskites for High-Performance Photodetectors
Hoi Tung Lam, Ioannis Leontis, Mohammed Ali Saleh Alshehri and Saverio Russo (Univ. of Exeter, UK); Rosanna Mastria (CNR Nanotec, Italy); Sara Bonomi (Univ. of Pavia, Italy)

August 5 (Wednesday)

Session Title	Modulators and Switches
Session Time	08:30-10:00
Session Chair(s)	Yue-De Yang (Institute of Semiconductors ,CAS, China)

We12-1 **08:30-08:45**

Axis-dependent Magneto-Optical Effects in Al-Doped 4H-SiC revealed via Polarization-Controlled Optoelectronic Annealing
Haoze Du, Naoya Tate, Yuji Oki and Kenshi Hayashi (Kyushu Univ., Japan); Takuya Kadowaki (Nichia Corporation, Japan); Motoichi Ohtsu (Research Origin for Dressed Photon, Japan)

We12-2 **08:45-09:00**

Non-volatile Resonance Control in Sb2Se3-Si Integrated Micro-rings via Programmable Phase-Tuning
Yinjie Liu, Jiyuan Zheng, Zhibiao Hao, Jian Wang, Bing Xiong, Changzheng Sun, Lin Gan, Yi Luo, Lai Wang, Hongtao Li and Yanjun Han (Tsinghua Univ., China)

We12-3 **09:00-09:15**

Integrated Photonic Real-time Spectrum Sensing for 6G ISAC Network
Tao Yuansheng (City Univ. of Hong Kong, Hong Kong, China)

We12-4 **09:15-09:30**

Gain-Enabled Direct Modulation of a Quantum-Dot Semiconductor Optical Amplifier for O-Band Communication
Victoria Cao, Jingsen Lu and Zhaodong Li (Shenzhen Technology Univ., China); Dingyi Wu and Xi Xiao (National Information Optoelectronics Innovation Center, China); Shujie Pan (HS Photonics Co., Ltd., China); Siming Chen (Institute of Semiconductors, CAS, China)

We12-5 **09:30-09:45**

320 Gbps G-Band All-Optical Terahertz Wireless Transmission Based-on Thin-Film Lithium Niobate Platform
Linshan Yang, Yijun Guo, Weiwei Hu and Haowen Shu (Peking Univ., China); Yunhao Zhang and Lei Wang (Peng Cheng Laboratory, China); Yu Sun and Jun Qin (Beijing Information Science and Technology Univ., China); Xingjun Wang (Peking Univ., China)

We12-6 **09:45-10:00**

Low VπL TFLN Modulator Using IHO/Au Hybrid Electrodes
Guojiong Li, Hao Huang, Yongqian Tang, Nanguo Li, Yuanhao Zhang, Bin Hu, Qiaoyin Lu and Weihua Guo (Huazhong Univ. of Science and Technology, China)

Coffee Break

Session Title	Tunable and Narrow-linewidth Lasers
Session Time	10:30-11:45
Session Chair(s)	Yong-Zhen Huang (Chinese Academy of Sciences, China)

We12-7 **10:30-11:00**

Silicon-Based Hybrid Integrated Narrow Linewidth Lasers and Optical Frequency Combs (Invited Paper)
Yuede Yang, Zunhao Hu, Wenqi Shi, Jinlong Xiao, Youling Chen and Yongzhen Huang (Institute of Semiconductors, CAS, China)

We12-8 **11:00-11:15**

S-Band Multi-Channel Interference Widely Tunable Laser
Zhida Wang, Jiajun Lou, Qiaoyin Lu and Weihua Guo (Huazhong Univ. of Science and Technology, China); Zifeng Chen (Central China Normal Univ., China); Quanan Chen and Chun Jiang (Ningbo Ori-Chip Optoelectronics Technology Co. Ltd, China)

We12-9 **11:15-11:30**

A high-power, low-α-factor RSOA for narrow-linewidth lasers
Jingjing Sun, Jianwei Zhang, Yongqiang Ning and Chao Chen (Changchun Institute of Optics, Fine Mechanics and Physics, CAS, China)

We12-10 **11:30-11:45**

Low-noise narrow-linewidth 1064-nm quantum dot laser with external quasi-random distributed feedback
Da Wei, Leilei Shi, Yujia Li, Huan Tian, Minzhi Xu, Xianming Huang, Jianxian Yu and Tao Zhu (Chongqing Univ., China)

C13
Integrated Photonics

Conference Room: ROOM 305E
Conference Date: Aug.2 (Sun.)-Aug.5 (Wed.)

Co-chairs

Daoxin Dai (Zhejiang Univ., China)
Yikai Su (Shanghai Jiao Tong Univ., China)
Kyoungsik Yu (Korea Advanced Institute of Science and Technology , Korea)

Members

Gong Zhang (Zhejiang Univ.,China)
Jianjun Zhang (Institute of Physics,CAS, China)
Xuetao Gan (Northwestern Polytechnical Univ., China)
Xianshu Luo (Institute of Microelectronics, A*STAR, Singapore)
Qijie Wang (Nanyang Technological Univ., Singapore)
Xiankai Sun (Chinese Univ. of Hong Kong, Hong Kong, China)
Ke Xu (Harbin Institute of Technology, China)
Ke Wang (RMIT Univ., Australia)
Youngik Sohn (Korea Advanced Institute of Science and Technology, Korea)
Ciyuan Qiu (Shanghai Jiao Tong Univ., China)

August 2 (Sunday)

Session Title	Active Integrated Photonic Devices
Session Time	13:30-15:15
Session Chair(s)	Kyoungsik Yu (Korea Advanced Institute of Science and Technology , Korea)

Su13-1 **13:30-14:00**

Simultaneous 2G–6G Wireless Communications with 1024-QAM Enabled by Integrated Photonics and Metasurfaces (Invited paper)
Yujun Chen,Jiahao Gao and Xuguang Zhang(Peking Univ.,China);Ke Zhang(City Univ. of Hong Kong,Hong Kong, China); Zixuan Zhou,Xiangpeng Zhang,Xiaoyu Zhang(Peking Univ.,China);Zheng Li(Beijing Jiaotong Univ.,China); Jiafan Gao(ShanghaiTech Univ.,China);Lei Zhang(Peking Univ.,China);Yikun Chen, Chengfei Shang and Cheng Wang (City Univ. of Hong Kong,Hong Kong,China);Lingyang Song,Boya Di and Lin Chang(Peking Univ.,China)

Su13-2 **14:00-14:15**

Plasmonic-organic hybrid modulator with large bandwidth
Yang Feng and Yang Du(Harbin Institute of Technology, China);Zhen Zhen(Peng Cheng Laboratory, China); Yanmei Li(Harbin Institute of Technology, China);Lei Wang(Peng Cheng Laboratory, China); Jingdong Luo (City Univ. of Hong Kong,Hong Kong, China);Xiaochuan Xu(Harbin Institute of Technology, China)

Su13-3 **14:15-14:30**

Mode-Engineered Monolithically Integrated Silicon Photodetectors for Submicrometer NIR Integrated Photonics
Engjell Bebeti(Max Planck Institute of Microstructure Physics;Martin-Luther-Univ. Halle-Wittenberg, Germany); Alperen Govdeli and Tianyi Liu(Max Planck Institute of Microstructure Physics, Germany); Hongyao Chua and Guo-Qiang Lo(Advanced Micro Foundry Pte Ltd, Singapore);Wesley Sacher(Max Planck Institute of Microstructure Physics, Germany)

Su13-4 **14:30-14:45**

Quantum dot distributed feedback laser with laterally coupled gratings directly grown on silicon
Bo Yang(Institute of Physics, CAS,China);Wenqi Wei(Songshan Lake Materials Laboratory,China);Dong Han,Ting Wang,Zihao Wang and Jianjun Zhang(Institute of Physics, CAS,China)

Su13-5 **14:45-15:00**

Suspended silicon nitride erbium-doped waveguide amplifier with 36 dB net gain and >100 mW output power
Chen Zhou,Yihang Pan,Yichen He,Hao Zhang,Shengyun Zhu,Lin Zhang and Xiaoyan Zhou(Tianjin Univ., China)

Su13-6 **15:00-15:15**

51.2 GHz L Band Germanium Photodetector with 3D Circulating Waveguide Loop
Yihang Li(Peng Cheng Laboratory, China);Kaihang Lu(The Hong Kong Univ. of Science and Technology (Guangzhou),China);Jianing Wang and Bingyan Zhang(Harbin Institute of Technology Shenzhen, China); Lei Wang (Peng Cheng Laboratory, China);Yeyu Tong(The Hong Kong Univ. of Science and Technology (Guangzhou), China);Ke Xu(Peng Cheng Laboratory, China)

Coffee Break

Session Title	Hybrid Integrated Platforms
Session Time	15:45-17:45
Session Chair(s)	Lin Chang (Peking Univ.,China)

Su13-7 **15:45-16:15**

Silicon photonic MEMS-based integrated photonic elements for ultra-low-power programmability (Invited Paper)
Kyoungsik Yu (KAIST,Korea)

Su13-8 **16:15-16:45**

Heterogeneously integrated transciever chip based on thin film lithium niobate (Invited Paper)
Liu Liu(Zhejiang Univ.,China)

Su13-9 **16:45-17:00**

Hybrid Thin-Film Lithium Niobate/SiN-on-SOI Photonic Circuits for Submicrometer Near-Infrared Light
Tianyi Liu,Engjell Bebeti and John Straguzzi(Max Planck Institute of Microstructure Physics, Germany); Hongyao Chua and Guo-Qiang Lo(Advanced Micro Foundry Pte Ltd, Singapore);Joyce Poon(Univ. of Toronto, Canada); Wesley Sacher(Max Planck Institute of Microstructure Physics, Germany)

Su13-10 **17:00-17:15**

Suspended Si3N4-Er3+:Al2O3 Waveguide Lasers based on High-Order Bragg Grating
Yichen He,chen Zhou,Yihang Pan,Hao Zhang,Shengyun Zhu,Lin Zhang and Xiaoyan Zhou(Tianjin Univ., China)

Su13-11 **17:15-17:30**

Single-λ 112 Gb/s Modulation via a 67 GHz Silicon Photonic Microdisk Modulato
Jian Li,Yunhao Zhang,Bowen Zhang and Lei Wang(Peng Cheng Laboratory,China);Haowen Shu(Peking Univ., China); Ke Xu(Peng Cheng Laboratory,China)

Su13-12 **17:30-17:45**

Thin-film lithium tantalate photonics and 3D couplers
Xinyu Ma,Erik Jung,Jan Brandes,Caghan Ünlüer and Wolfram Pernice(Heidelberg Univ., Germany)

August 3 (Monday)

Session Title	Hybrid Integrated Platforms
Session Time	08:30-10:00
Session Chair(s)	Liu Liu (Zhejiang Univ.,China)

Mo13-1 **08:30-09:00**

Silicon Photonics Heterogeneous Integration (Si-PHI) - Breaking Performance Limits Through Multi-Material Integration (Invited Paper)
Xianshu Luo(Institute of Microelectronics, A*STAR, Singapore)

Mo13-2 **09:00-09:30**

Thin-Film PZT Programmable Photonics (Invited Paper)
Chenlei Li and Daoxin Dai(Zhejiang Univ.,China)

Mo13-3 **09:30-09:45**

Heterogeneously Integrated Silicon Photonic Chip for Robust Industrial Optical Coherence Tomography
Hang Su,Shuo Wang,Jianing Mao,Chunxue Wang,Mengyuan Wang and Congyu Hu(Shanghai Jiao Tong Univ., China);Yuye Ling(The Univ. of Oklahoma,USA);Yikai Su and Xingchen Ji(Shanghai Jiao Tong Univ.,China)

Mo13-4 **09:45-10:00**

Ultrafast and Widely-tunable Hybrid External-cavity Laser based on Lead Zirconate Titanate photonics
Yueyang Zhang,Chenlei Li and Tao Shu(Zhejiang Univ., China); Feng Qiu(Univ. of Chinese Academy of Sciences, China); Hon-Ki Tsang(The Chinese Univ. of Hong Kong, Hong Kong , China); Daoxin Dai(Zhejiang Univ., China)

Coffee Break

Session Title	Passive Photonics and fabrication
Session Time	10:30-11:45
Session Chair(s)	Xianshu Luo (Institute of Microelectronics, A*STAR, Singapore)

Mo13-5 **10:30-11:00**

Ultra-compact, low-crosstalk silicon waveguide array (Invited Paper)
Ciyuan Qiu(Shanghai Jiao Tong Univ.,China)

Mo13-6 **11:00-11:15**

Preparation and Performance of Plasticized Chitosan Films as Bioplastic Diffraction Gratings
Efren Gumayan,Ian Ken Dimzon,Joel Maquiling and Raphael Guerrero(Ateneo de Manila Univ., Philippines)

Mo13-7 **11:15-11:30**

Post-fabrication Non-volatile and Reversible FSR Tuning of SiN MZI by Electric Field Poling of Electro-Optic Polymers
Zefan Duan,Tianyang Fu,Kaixin Chen and Jieyun Wu(Univ. of Electronic Science and Technology of China, China)

Mo13-8 **11:30-11:45**

Low-loss trimming of photonic circuits with focused ion beam–based techniques
Rongyang Xu,Shabnam Taheriniya,Zhongyu Tang,Liam McRae and Wolfram Pernice(Heidelberg Univ., Germany)

Lunch

Session Title	Passive and Nonlinear Components
Session Time	13:30-15:15
Session Chair(s)	Haitao Chen (National Univ. of Defense Technology,China)

Mo13-9 **13:30-14:00**

Photonic components for large-scale passive circuits (Invited Paper)
Young-Ik Sohn(Korea Advanced Institute of Science and Technology,Korea)

Mo13-10 **14:00-14:15**

Periodically tapered lithium niobate nanophotonic waveguides for on-chip f-2f self-referencing
Xinyan Chi,Tuo Liu,Haoxuan Zhang,Biyan Zhan and Xianwen Liu(Beijing Institute of Technology, China)

Mo13-11 **14:15-14:30**

Semi-analytical soliton existence and spontaneous formation in photonic-crystal ring resonator
Sota Sakaue and Naoya Kuse(Tokushima Univ., Japan)

Mo13-12 **14:30-14:45**

Generation of microcombs from photonic crystal ring resonators under thermal effects
Tomoki Hirata,Sota Sakaue and Naoya Kuse(Tokushima Univ., Japan)

Mo13-13 **14:45-15:00**

Dissipative Kerr Solitons with Enhanced Thermal Stability Using a Single Polarization-Diverse Pump
Seungwon Kim,Yongbeom Kim,Yoonhyuk Rah,Rizki Arif Pradono and Kyoungsik Yu(Korea Advanced Institute of Science and Technology,Korea)

Mo13-14 **15:00-15:15**

Robust Fine-Tuning of Kerr Soliton Repetition Rate via Spectral Recoil in a Dual-Ring Microresonator
Jie Xu,Huanjie Cheng,Helin Jiang,Feng Li,Dongmei Huang and Dongmei Huang(The Hong Kong Polytechnic Univ.,China)

Coffee Break

Session Title	Nonlinear Integrated Photonic Devices
Session Time	15:45-17:30
Session Chair(s)	Young-Ik Sohn (Korea Advanced Institute of Science and Technology,Korea)

Mo13-15 **15:45-16:15**

Ultrathin silicon waveguide-integrated 2D materials for efficient and ultrafast all-optical modulation (Invited Paper)
Haitao Chen(National Univ. of Defense Technology,China)

Mo13-16 **16:15-16:30**

Suppression of Laser Noise via On-Chip Coherent Supercontinuum Generation
Qiankun Li,Kai Wang, Xueying Sun, Suwan Sun, Chaoqian Wei, Yongyuan Chu, Zhiming Shi, Chengbo Mou and Hairun Guo(Shanghai Univ.,China)

Mo13-17 **16:30-16:45**

Broadband Soliton Microcombs using Narrowband Couplers
Yuanlei Wang,Xinrui Luo,Binbin Nie,Zhenchao Mei,Yanwu Liu,Qihuang Gong and Qi-Fan Yang(Peking Univ., China)

Mo13-18 **16:45-17:00**

Two Coupled DOPOs on a Photonic Chip as an Elementary Cell for All-Optical Integrated Coherent Ising Machine
Alexander Vorobyev(Russian Quantum Center;Moscow Institute of Physics and Technology,Russia)

Mo13-19 **17:00-17:15**

Accessing the UV via Fourth-Harmonic Generation in Integrated Silicon Nitride Rings
Alekhya Ghosh,Arghadeep Pal,Qixuan Zhou,Haochen Yan,Toby Bi and Luca O. Trinchão(Max Planck Institute for the Science of Light, Germany;Univ. of Campinas-Gleb Wataghin Physics Institute, Brazil); Gustavo S. Wiederhecker(Univ. of Campinas-Gleb Wataghin Physics Institute, Brazil);Shuangyou Zhang (Technical Univ. of Denmark,Denmark);Pascal Del'Haye(Max Planck Institute for the Science of Light, Germany;Univ. of Campinas-Gleb Wataghin Physics Institute, Brazil)

Mo13-20 **17:15-17:30**

Pulse Signal Generation and Switching in Photonic-Crystal Microresonator with Normal GVD
Valery Lobanov,Olga Borovkova,Dmitry Chermoshentsev and Igor Bilenko(Russian Quantum center-Quantum optics, Russia)

August 4 (Tuesday)

Session Title	Reconfigurable and Nonlinear Photonics
Session Time	08:30-10:00
Session Chair(s)	Ciyuan Qiu (Shanghai Jiao Tong Univ., China)

Tu13-1 **08:30-09:00**

Versatile functionalities of on-chip metasurfaces (Invited paper)
Ke Xu(Harbin Institute of Technology,China)

Tu13-2 **09:00-09:15**

Large-dispersion integrated chirped Bragg gratings for high-dimensional time-frequency entanglement manipulation
Qiaomian Chen and Xiang Cheng(Huazhong Univ. of Science and Technology,China)

Tu13-3 **09:15-09:30**

Flat Optical Frequency Comb Based on Near Self-similar Amplification in Erbium-doped Silicon Nitride Waveguide Amplifier
Liu Yue and Han Yunan(Beijing Jiaotong Univ.,China);Wang Haiyan(Jilin Univ.,China);Wei Huai,Feng Suchun and Yan Fengping(Beijing Jiaotong Univ.,China)

Tu13-4 **09:30-09:45**

O-band Integrated Optical Frequency Comb Based on Normal Dispersion Silicon Nitride Grating Micro-resonator
Yunan Han,Yue Liu,Jiaqiang Wang,Zixiao Wang and Suchun Feng(Beijing Jiaotong Univ.,China);Wei Li(Beijing Changcheng Institute of Metrology & Measurement,China);Fengping Yan(Beijing Jiaotong Univ.,China)

Tu13-5 **09:45-10:00**

Gallium Phosphide Slot Waveguides Designed for Power-efficient Soliton Microcombs
Qiwei Zheng,Weiren Cheng,Ning Ding,Ziming Zhang,Zhenyu Liu,Mingjian You,Jiaxin Hou,Zhengqi Li,Xingyu Tang,Junke Zhou and Shengjie Liu(Southern Univ. of Science and Technology,China);Ruikang Zhang and Dan Lu(Institute of Semiconductors, CAS;Univ. of Chinese Academy of Sciences, China);Qiancheng Zhao(Southern Univ. of Science and Technology,China)

Coffee Break

Session Title	Photonic Communication
Session Time	10:30-11:45
Session Chair(s)	Ke Xu (Harbin Institute of Technology,China)

Tu13-6 **10:30-11:00**

High-performance calibration-free Mach-Zehnder interferometer networks (Invited paper)
Lijia Song,Huan Li and Daoxin Dai(Zhejiang Univ.,China)

Tu13-7 **11:00-11:15**

Physical-Layer Key Generation in an Integrated Chaotic Kerr Microcomb
Jiarong Liu,Sha Zhu,Kunpeng Zhai and Ninghua Zhu(Nankai Univ.,China)

Tu13-8 **11:15-11:30**

Visible phase-locked microcombs generation in integrated micro-ring resonators
Yuan Yao and Zehao Li(Zhejiang Sci-Tech Univ.,China);Xiaotian Zhu(City Univ. of Hong Kong,Hong Kong, China);Xiang Wang,Roy R. Davidson and Brent E. Little(QXP Technologies Inc.,China);Sai T. Chu(City Univ. of Hong Kong,Hong Kong,China);Zhe Kang(Nanjing Univ. of Aeronautics and Astronautics,China);Yuhua Li (Zhejiang Sci-Tech Univ.,China)

Tu13-9 **11:30-11:45**

High-Energy Ultrashort-Pulse Generation in Si3N4 Micro-resonators
Zhenhua Guo,Sushant Kumar,Xue Dong,Yi Zhang,Jiewei Xiang,Arunima Nauriyal,Junchi Zhang,Elias Veilleux,Jaime Cardenas and William Renninger(Univ. of Rochester-Institute of Optics,USA)

Lunch

Poster Session (13:00-14:30)

Session Title	Photonic Communication
Session Time	14:30-15:45
Session Chair(s)	Gong Zhang (Zhejiang Univ.,China)

Tu13-10 **14:30-15:00**

Cascaded nonlinear down-conversion in a thin-film lithium niobate waveguide for mid-infrared light emission (Invited Paper)
Qijie Wang(Nanyang Technological Univ., Singapore)

Tu13-11 **15:00-15:15**

Silicon Photonics MEMS 2×2 Optical Switch
Zijun Yao,Binggen Chen,Ji Shen,Bowen Cui,Haifeng Zhang and Jian Zhou(East China Institute of Optoelectronic Integrated Device,China);Chen Wang(Nanjing Univ. of Science and Technology,China); Ziheng Wang(East China Institute of Optoelectronic Integrated Device,China);Weiji He(Nanjing Univ. of Science and Technology,China); Yuanjin Chen(Hangzhou Zhiyuan Research Institute Co., Ltd., China)

Tu13-12 **15:15-15:30**

Experimental Study of Single-Laser Dual-Comb Regime using a Dual-Microring Integrated Chip
Veronika Beliaeva and Alina Golodukhina(Russian Quantum Center,Lomonosov Moscow State Univ., Russia); Dmitry Chermoshentsev(Russian Quantum Center,Moscow Institute of Physics and Technology, Russia);Nikita Dmitriev(Russian Quantum Center, Russia);Igor Bilenko(Lomonosov Moscow State Univ.,Russian Quantum Center, Russia);Artem Shitikov(Russian Quantum Center, Russia)

Tu13-13 **15:30-15:45**

Comparative Study of Low-Phase-Noise Microwave Generation Using an Integrated Microring Resonator
Nadezhda Tatarinova(Russian Quantum Center,Moscow Institute of Physics and Technology, Russia); Artem Shitikov and Valery Lobanov(Russian Quantum Center, Russia);Igor Bilenko(Russian Quantum Center,Lomonosov Moscow State Univ.-Faculty of Physics, Russia);Dmitry Chermoshentsev(Russian Quantum Center,Moscow Institute of Physics and Technology, Russia)

Coffee Break

Session Title	Spectrometers and Sensors
Session Time	16:15-17:15
Session Chair(s)	Qijie Wang (Nanyang Technological Univ., Singapore)

Tu13-14 **16:15-16:45**

High-Performance Multi-Dimensional Functional On-Chip Spectrometer in Silicon Photonics (Invited Paper)
Long Zhang(Zhejiang Univ.,China)

Tu13-15 **16:45-17:00**

Broadband Integrated Soliton Microcombs in the Biological Window with Resonant Coupler
Xinrui Luo,Du Qian,Kaixuan Zhu,Yuanlei Wang,Yiwen Yang,Yinke Cheng,Junqi Wang,Haoyang Luo and Qi-Fan Yang (Peking Univ.,China)

Tu13-16 **17:00-17:15**

Integrated Random-Sampling Computational Spectrometer
Jiale Li,Zeng Chen and Jianji Dong(Huazhong Univ. of Science and Technology,China)

August 5 (Wednesday)

Session Title	Quantum and reconfigurable photonics
Session Time	09:00-10:00
Session Chair(s)	Ke Wang(RMIT Univ., Australia)

We13-1 **09:00-09:30**

Integrated-photonic quantum computing and networking (Invited Paper)
Jianwei Wang (Peking Univ., China)

We13-2 **09:30-09:45**

Multilevel Nonvolatile Sb_2Se_3-on-Silicon Photonic Switches Enabled by Low-Resistance ITO Microheaters
Yue Song(Shanghai Institute of Microsystem and Information Technology, CAS, China);Lei Niu,Run Yu,Yegang Lu and Wei Zhang(Ningbo Univ., China;Key Laboratory of Photoelectric Detection Materials and Devices of Zhejiang Province,China);Peipeng Xu(Shanghai Institute of Microsystem and Information Technology, CAS , China; Ningbo Univ.,China);Yingxuan Zhao,Zhen Sheng and Fuwan Gan(Shanghai Institute of Microsystem and Information Technology, CAS, China); Peipeng Xu(Shanghai Institute of Microsystem and Information Technology, CAS, China ; Ningbo Univ.,China)

We13-3 **09:45-10:00**

Continuously Tunable Zero-Static-Power On-Chip Optical Router Based on Sb_2S_3 Phase Shifters
Qing Wu,Jingzhe Pang,Tun Cao and Jingyuan Jia(Dalian Univ. of Technology,China)

Coffee Break

Session Title	Reconfigurable Photonic Integrated Circuits
Session Time	10:30-11:30
Session Chair(s)	Jianwei Wang (Peking Univ.,China)

We13-4 **10:30-11:00**

Integrated Beam Steering for Optical Wireless Communications (Invited Paper)
Ke Wang,Chengwei Fang,Md Osman Ali,Rajiv Gupta and Nadira Pervin(RMIT Univ., Australia);Jianghao Li(Shandong Normal Univ.,China);Cuiwei He(Japan Advanced Institute of Science and Technology,Japan); Akram Hourani and Sithamparanathan Kandeepan(RMIT Univ., Australia)

We13-5 **11:00-11:15**

Single-Photon-Boosted Type-I Fusion Gates with up to 3/4 Success Probability for Scalable Photonic Quantum Computing
Aleksandr Melkozerov(Russian Quantum Center,Russia; M.V. Lomonosov Moscow State Univ.,Russia);Mikhail Saygin and Stanislav Straupe(Sber Quantum Technology Center,Russia; Russian Quantum Center,Russia;M.V. Lomonosov Moscow State Univ.,Russia)

We13-6 **11:15-11:30**

Programmable 4x4 WDM MZI-Based Photonic Crossbar Array for Real-Valued Matrix Operations
Jose Roberto Rausell-Campo and Jose Capmany Francoy(Universitat Politècnica de València-Photonics Research Lab, iTEAM, Spain)

C14

Biophotonics and Applications

Conference Room: ROOM 311C

Conference Date: Aug.4 (Tue.)-Aug.6 (Thu.)

Co-chairs

Xunbin Wei (Peking Univ., China)
Sergio Fantin (Tufts Univ., USA)

Members

Dayong Jin (Univ. of Technology Sydney, Australia)
Zhen Yuan (Univ. of Macau, Macao, China)
Chulhong Kim (Pohang Univ. of Science and Technology ,Korea)
Shih-chi Chen (The Chinese Univ. of Hong Kong, Hong Kong, China)
Tongsheng Chen (South China Normal Univ., China)
Yu Chen (Fujian Normal Univ., China)
Ming Lei (Xi'an Jiaotong Univ., China)
Hongen Liao (Shanghai Jiao Tong Univ., China)
Liwei Liu (Shenzhen Univ., China)
Xiaolong Liu (Fujian Medical Univ., China)
Xiaoquan Yang (Hainan Univ.,China)
Changfeng Wu (Southern Univ. of Science and Technology, China)
Jing Yuan (Huazhong Univ. of Science and Technology, China)
Peng Xi (Peking Univ., China)
Haixia Qiu (PLA General Hospital, China)

August 4 (Tuesday)

Session Title	Optical Microscopy
Session Time	14:30-15:45
Session Chair(s)	Xunbin Wei (Peking Univ., China) Peng Xi (Peking Univ., China)

Tu14-1 **14:30-15:00**

High precision laser vision correction surgery (Invited Paper)
Zimeng Zhou,Honghao Wang and Shaoqun Zeng(Huazhong Univ. of Science and Technology, China)

Tu14-2 **15:00-15:30**

Computational volumetric Raman imaging (Invited Paper)
Xueli Chen and Wang Nan(Xidian Univ.,China)

Tu14-3 **15:30-15:45**

Excitation-spectral single-objective light-sheet microscopy for three-dimensional cellular multiplexed imaging
Jinhong Yan and Kun Chen(Univ. of Electronic Science and Technology of China,China)

Coffee Break

Session Title	Optical Microscopy
Session Time	16:15-17:45
Session Chair(s)	Shaoqun Zeng (Huazhong Univ. of Science and Technology, China) Xueli Chen (Xidian Univ.,China)

Tu14-4 **16:15-16:45**

Deep super-resolution microscopy based on multi-confocal imaging (Invited Paper)
Peng Xi and Wei Ren(Peking Univ.,China)

Tu14-5 **16:45-17:15**

Developing Single-Shot Phase Microscopy with Band-Limited Image and Its Fourier Transformed (BIFT) constraints(Invited Paper)
Zhongyang Wang(Eastern Institute of Technology, Ningbo,China)

Tu14-6 **17:15-17:30**

Physics-Guided weakly-supervised Learning for Reduced-Channel Spectral Unmixing in Multiplexed Cellular Imaging
Xia Jiankai and Chen Kun(Univ. of Electronic Science and Technology of China,China)

Tu14-7 **17:30-17:45**

Accelerated Brain Optical Simulation with Fourier Neural Operators on MRI-Derived Optical Atlases
Junyu Zhou and Yuting Fu(Peking Univ.,China);Tongxiao Hu(Beihang Univ.,China); Xunbin Wei(Peking Univ.,China)

August 5 (Wednesday)

Session Title	Optical Microscopy
Session Time	08:30-10:00
Session Chair(s)	Donghyun Kim (Yonsei Univ.,Korea) Qiangzhou Rong (Xi'an Jiaotong Univ.,China)

We14-1 **08:30-09:00**

Ultrafast Active Multi-target Optical Sensing (Invited Paper)
Shih-Chi Chen(The Chinese Univ. of Hong Kong,Hong Kong,China)

We14-2 **09:00-09:30**

PanoMito: mapping mitochondrial heterogeneity from morphofunctional profiling to single-mitochondrion spatial transcriptomics (Invited Paper)
Hao Zhang(Eastern Institute of Technology, China)

We14-3 **09:30-09:45**

High-throughput two-photon microscope for multiparameter and quantitative brain function imaging
Shiwei Ye and Wei Zheng(Shenzhen Institute of Advanced Technology, CAS ,China)

We14-4 **09:45-10:00**

Mesoscopic SCAPE Microscopy via Super-Oblique Illumination and Self-Conjugating Rescanning
Zixian Cao(Univ. of Science and Technology of China, China);Jiapeng Zhu(Univ. of Science and Technology of China, China); Cheng Zhang and Yankan Huang(Suzhou Institute for Advanced Research, Univ. of Science and Technology of China, China); Wenxuan Liang(Univ. of Science and Technology of China,China)

Coffee Break

Session Title	Optical Microscopy
Session Time	10:30-12:00
Session Chair(s)	Shih-Chi Chen (The Chinese Univ. of Hong Kong, Hong Kong, China) Karl Zhanghao (Eastern Institute of Technology, Ningbo,China)

We14-5 **10:30-11:00**

Photoacoustic Imaging and Ultrasound Bioprinting (Invited Paper)
Qiangzhou Rong(Xi'an Jiaotong Univ.,China)

We14-6 **11:00-11:30**

Simultaneous Multiplane Fluorescence and Quantitative Phase Microscopy Using a Z-Splitter Prism for Rapid Live-Cell Imaging (Invited Paper)
Minghao Wang,Hajun Yoo,Kwanhwi Ko,Sukhyeon Ka,Seungwoo Lee and Donghyun Kim(Yonsei Univ.,Korea)

We14-7 **11:30-11:45**

Raman Spectroscopic Analysis of Teeth from Patients with Hypophosphatasia
Shogo Kawashima,Ryo Kato,Yuto Suehiro,Rena Okawa,Kazuhiko Nakano and Takeo Minamikawa(The Univ. of Osaka,Japan)

We14-8 **11:45-12:00**

Simultaneous IR–Raman–fluorescence microscopy for tracking metabolic dynamics
Delong Zhang(Zhejiang Univ.-School of Physics,China)

Lunch

Session Title	Optical Tomography and Diffused Optics
Session Time	14:30-15:30
Session Chair(s)	Yanyu Zhao (Beihang Univ.,China)

We14-9 **14:30-15:00**

Quantitative Dynamic OCT for High Throughput Drug Screening (Invited Paper)
Jianbo Tang(Southern Univ. of Science and Technology,China)

We14-10 **15:00-15:15**

Development of 2 μm OCT using all-polarization-maintaining Tm-doped SWCNT fiber laser
Rongjie Zhang,Shotaro Kitajima and Norihiko Nishizawa(Nagoya Univ.,Japan)

We14-11 **15:15-15:30**

Integrated IVOCT and Laser Ablation for Atherosclerotic Plaque Treatment: Feasibility in Phantoms and Porcine Heart
Hongming Liu,Ruizhe Yang and Site Luo(Shenzhen Technology Univ.,China)

Coffee Break

Session Title	Optical Tomography and Diffused Optics
Session Time	16:00-16:45
Session Chair(s)	Jianbo Tang (Southern Univ. of Science and Technology,China)

We14-12 **16:00-16:15**

Label-free Quantitative Mapping of Biological Tissues with Spatial Frequency Domain Imaging
Yanyu ZHAO(Beihang Univ.,China)

We14-13 **16:15-16:30**

Assessment of Vascular Stent Deployment Using Intravascular Optical Coherence Tomography
Ruizhe Yang,Hongming Liu and Site Luo(Shenzhen Technology Univ.,China)

We14-14 **16:30-16:45**

Early Detection of Sweet Potato Foot Rot Based on Phytoalexin Autofluorescence Analysis
Ziyu Wang and Ota Uchiyama(Kyushu Univ.,Japan);Risa Shimooki(Miyazaki Univ.,Japan);Hiroaki Yoshioka(Kyushu Univ.,Japan);Minoru Takeshita(Miyazaki Univ.,Japan);Yuji Oki(Kyushu Univ.,Japan)

August 6 (Thursday)

Session Title	Nanobiophotonics
Session Time	09:00-10:00
Session Chair(s)	Xun Chen (Beihang Univ.,China)

Th14-1 **09:00-09:15**

Development of Multifunctional Nanoprobes in the Second Near-Infrared Region and Their Application in Biomedical Optical Diagnosis and Therapy
Nuernisha Alifu Alifu(Xinjiang Medical Univ.,China)

Th14-2 **09:15-09:30**

Acoustic Microstreaming-Enhanced SERS Platform for Rapid and Sensitive Exosome-Based Cancer Diagnosis
Lei Wu(Southeast Univ.,China)

Th14-3 **09:30-09:45**

Development and Application of Biophoton Field Infrared Robot (BFIR) for Treatment of Diabetic Foot Ulcer (DFU)
Ruijian QIU(Torsion Field MediTech Development (Shenzhen) Co., Ltd.,China)

Th14-4 **09:45-10:00**

Non-contact Fiber-Optic Ballistocardiogram for Direct Cardiac Ejection Monitoring
Weimin Lyu and Tianyu Chen(The Hong Kong Polytechnic Univ.,Hong Kong,China);Xiang Wang(Guangdong Provincial People's Hospital and Southern Medical Univ.,China);Yulin Qiu(The Hong Kong Polytechnic Univ.,Hong Kong,China);Zijian Lin and Yunfei Chai(Guangdong Provincial People's Hospital and Southern Medical Univ.,China);Changyuan Yu(The Hong Kong Polytechnic Univ.,Hong Kong,China)

Coffee Break

Session Title	Clinical & Translational Biophotonics
Session Time	10:30-12:00
Session Chair(s)	Xunbin Wei (Beijing Univ, China)

Th14-5 **10:30-10:45**

Development of New Raman Endoscopic Diagnostic Methods for Precision Medicine
Chen XUN(Beihang Univ.,China)

Th14-6 **10:45-11:00**

Improved measurement accuracy of cerebrospinal fluid flow in a hydrocephalus shunt tube using indocyanine green fluorescence
Kimura Keigo, Shimizu Yuto and Miyanabe Isaya(Chuo Univ.,Japan); Aihara Yasuo(Tokyo Woman's Medical Univ.,Japan); Shoji Ichiro(Chuo Univ.-Electrical,Japan)

Th14-7 **11:00-11:15**

Physics-Informed Self-Supervised Learning for Label-Free Molecular Mapping via Hyperspectral Stimulated Raman Scattering
Jianlin Liu,Yuhui Li,Hao Jia,Xun Chen and Shuhua Yue(Beihang Univ.,China)

Th14-8 **11:15-11:30**

Enabling High-Sensitivity Tissue Diagnostics: A Universal Deep Learning Preprocessor for Fiber-Optic Raman Spectra
jinrui Li,Xun Chen and Shuhua Yue(Beihang Univ.,China)

Th14-9 **11:30-11:45**

Quantitative Phase Imaging and Raman Spectroscopy Integrated with Detecting Progestin Sensitivity in Endometrial Cancer
Yeqiu Zhan,Pu Wang and Shuhua Yue(Beihang Univ.,China)

Th14-10 **11:45-12:00**

High-Speed Multibeam Scanning: A Breakthrough for Femtosecond Vision Correction
Zihang Qing,Huaming Li,Xiaohua Lv and Shaoqun Zeng(Huazhong Univ. of Science and Technology,China)

C15

Metamaterials and Metasurfaces

Conference Room: ROOM 310

Conference Date: Aug.5 (Wed.)-Aug.6 (Thu.)

Co-chairs

Lei Zhou (Fudan Univ., China)
Dinping Tsai (City Univ. of Hong Kong, Hong Kong, China)
Junsuk Rho (Pohang Univ. of Science and Technology, Korea)

Members

Cheng-Wei Qiu (National Univ. of Singapore, Singapore)
Baohua Jia (Royal Melbourne Institute of Technology Univ., Australia)
Tao Li (Nanjing Univ., China)
Shumin Xiao (Harbin Institute of Technology, China)
Xinbin Cheng (TongJi Univ., China)
Na Liu (Univ. of Stuttgart, Germany)
Qiong He (Fudan Univ., China)
Takuo Tanaka (RIKEN Center for Advanced Photonics, Japan)

August 5 (Wednesday)

Session Title	Light Manipulation with Metamaterials and Metasurfaces
Session Time	08:30-10:00
Session Chair(s)	Jingcheng Zhang (Northwestern Polytechnical Univ., China)

We15-1 **08:30-09:00**

Pseudo-Parallel Spaces and Overlapping Optical Devices (Invited Paper)
Yun Lai(Nanjing Univ., China)

We15-2 **09:00-09:15**

Free-space optical visual processors
Jingtian Hu(Harbin Institute of Technology , China)

We15-3 **09:15-09:30**

Polarization-selective metalens for functional imaging system
Hyeonsu Heo and Junsuk Rho(Pohang Univ. of Science and Technology, Korea)

We15-4 **09:30-09:45**

Directional chiral emission at grazing angles enabled by light-cone-proximal quasi-BICs
Dmitrii Gromyko (Singapore Univ. of Technology and Design, Singapore); Cheng-Wei Qiu (National Univ. of Singapore, Singapore); Lin Wu (Singapore Univ. of Technology and Design, Singapore); Kirill Koshelev (Australian National Univ., Australia)

We15-5 **09:45-10:00**

Hybrid Metasurface Devices
Tianyue LI and C. T. Chan(The Hong Kong Univ. of Science and Technology, Hong Kong,China)

Coffee Break

Session Title	Light Manipulation with Metamaterials and Metasurfacs
Session Time	10:30-12:00
Session Chair(s)	Yun Lai (Nanjing Univ.-Physics, China)

We15-6 **10:30-11:00**

Non-local bound states in the continuum for nanoscale alignment (Invited Paper)
Jingcheng Zhang(Northwestern Polytechnical Univ., China)

We15-7 **11:00-11:15**

A 0.18 cubic centimeter 3D meta-holographic zoom micro-projector
Wang Di, Huang Qian and Zhao Rui-Yi (Beihang Univ., China)

We15-8 **11:15-11:30**

Singulonics: narwhal shaped wavefunctions for sub diffraction limited nanophotonics and imaging
Wenzhi Mao, Hongyi Luan and Renmin Ma(Institute of Condensed Matter and Material Physics, China)

We15-9 **11:30-11:45**

Fundamental and biosensing applications of hybrid meta-atoms and metasurfaces
Yali Sun (Huazhong Univ. of Science and Technology, China)

We15-10 **11:45-12:00**

Time-Reflected Guided Modes and Radiation Pulse Train in a Time-Varying Waveguide
Yundong Li, Oded Schiller, Yonatan Plotnik and Mordechai Segev (Technion-Israel Institute of Technology, Israel)

Lunch

Session Title	Ultrafast, Nonlinear, and Active Metamaterials and Metasurfaces
Session Time	13:30-15:15
Session Chair(s)	Dangyuan Lei (City Univ. of Hong Kong, Hong Kong, China)

We15-11 **13:30-14:00**

Topological charge lasing based on bound states in the continuum(Invited Paper)
Jiajun Wang (Fudan Univ.,China)

We15-12 **14:00-14:15**

A Magnetically Switchable Bifocal Metasurface
Alberto Santonocito, Barbara Patrizi and Guido Toci (National Council of Research, Italy); Alessio Gabbani and Francesco Pineider (Univ. of Pisa, Italy)

We15-13 **14:15-14:30**

Reversible metal electrodeposition-based dynamic visible-infrared regulator for adaptive camouflage
Junkai Wang, Shenghao Jin and Boxiang Wang (Shanghai Institute of Microsystem and Information Technology, CAS, China)

We15-14 **14:30-14:45**

High-Q Local Resonances for Near-Field Enhancement with Tight Focusing
Zhuo Wang and Sheng Lan (South China Normal Univ., China); Yao Liang and Din Ping Tsai (City Univ. of Hong Kong, Hong Kong, China)

We15-15 **14:45-15:00**

Compressed Sensing-Based Spectral Reconstruction with Metasurface in the Mid-to-Long Wave Infrared
YiYou Dong, Leidong Shi, Weiqiang Chen, Lidan Lu, Lianqing Zhu and Mingli Dong (Beijing Information Science and Technology Univ., China)

We15-16 **15:00-15:15**

Super-resolution Imaging of Plasmonic Quasiparticles with Subwavelength Features
Peng-Yi Feng and Benfeng Bai (Tsinghua Univ., China)

Coffee Break

Session Title	Quantum and Topological Metamaterials and Metasurfaces
Session Time	15:45-17:15
Session Chair(s)	Jiajun Wang (Fudan Univ.,China)

We15-17 **15:45-16:15**

Quantum Tunneling Induced Nonlinear Optics in Plasmonic Nanocavities (Invited Paper)
Dangyuan Lei (City Univ. of Hong Kong, Hong Kong, China)

We15-18 **16:15-16:30**

Supersymmetric Landau Levels in Subwavelength Type-I Dirac Metasurfaces
Yi Yuan, Yikai Xu and Liang Zhao (Fudan Univ., China)

We15-19 **16:30-16:45**

Metasurfaces for Scalable Quantum Communication Protocols
Lin Li(East China Normal Univ., China)

We15-20 **16:45-17:00**

Integrated Design of BB84 Quantum Communication Receiver Using a Metasurface
Yong Hui Li, XingYu Wang, JiaHao Li, Kefeng Yang, HuiCun Yu, Jiahua Wei, Jie Tang, Qian Li, Zhi Chen, Zhaoqi Lei, ZiTong Diao, Haoran Hu, YueXiang Cao, Ya Wang, Ying Liu, Heng Zhang and Lei Shi (Airforce Engineering Univ., China)

We15-21 **17:00-17:15**

Intrinsic Topological Hinge States Induced by Boundary Gauge Fields in Photonic Metamaterials
Changsheng He, Liang Zhao, Lei Zhou and Shaojie Ma (Fudan Univ., China); Shuang Zhang (Hong Kong Univ., Hong Kong, China)

August 6 (Thursday)

Session Title	Novel Physics for Plasmonics, Metamaterials and Metasurfaces, Such as Parity-Time Symmetric and Non-Hermitian Photonics
Session Time	13:30-15:00
Session Chair(s)	Shaojie Ma (Fudan Univ., China)

Th15-1 **13:30-14:00**

Active Phased Arrays Based on Nanolasers (Invited Paper)
Ren-Min Ma (Peking Univ., China)

Th15-1 **13:30-14:00**

Active Phased Arrays Based on Nanolasers (Invited Paper)
Ren-Min Ma (Peking Univ., China)

Th15-2 **14:00-14:15**

Flat-band quasi-BIC for robust and low-threshold optical nonreciprocity
Lu Peng and Zhang Tianyue (Beijing Univ. of Posts and Telecommunications, China)

Th15-3	14:15-14:30

Maximum optical responses in metasurfaces via local-nonlocal transition
Yao Liang, Din Ping Tsai and Borui Leng (City Univ. of Hong Kong, Hong Kong, China)

Th15-4	14:30-14:45

Nonlocal Meta-Lens Enabled Intensity Asymmetry in Nonlinear Wavefront Shaping
Zhihui WANG and Din Ping TSAI (City Univ. of Hong Kong, Hong Kong, China)

Th15-5	14:45-15:00

From Scalar to Vectorial Wavefront Imaging with Disordered Nanophotonics
Yunhui Gao and Liangcai Cao (Tsinghua Univ., China); Din Ping Tsai (City Univ. of Hong Kong, Hong Kong, China)

Coffee Break

C16
Optical Sensors, Display, and Imaging Systems

Conference Room: ROOM 305A

Conference Date: Aug.2 (Sun.)-Aug.4 (Tue.)

Co-chairs

Jianlin Zhao (Northwestern Polytechnical Univ., China)
Baohua Jia (Royal Melbourne Institute of Technology Univ., Australia)
Xinzhu Sang (Beijing Univ. of Posts and Telecommunications,China)

Members

Lin Zhang (Aston Univ., UK)
Qiang Wu (Northumbria Univ., UK)
Xianzhong Chen (Heriot-Watt Univ., UK)
Hongchao Liu (Univ. of Macau,Macao,China)
Christophe Caucheteur (Univ. of Mons, Belgium)
Hubert Jean-Ruel (Carleton Univ., Canada)
Baoli Yao (Xi'an Institute of Optics and Precision Mechanics CAS, China)
Liwei Liu (Shenzhen Univ., China)
Wei Peng (Dalian Univ. of Technology, China)
Biqiang Jiang (Northwestern Polytechnical Univ., China)
Jiawen Li (Adelaide Univ., Australia)

August 2 (Sunday)

Session Title	Multimodal Sensing and Imaging I
Session Time	13:30-15:15
Session Chair(s)	Shuming Wang (Nanjing Univ., China) Jinhui Shi (Harbin Engineering Univ., China)

Su16-1	13:30-14:00

Depth Sensing Using Integrated Alvarez Metalenses (Invited Paper)
Xiaoyu Che and Din Ping Tsai (City Univ. of Hong Kong, Hong Kong, China)

Su16-2	14:00-14:30

Addressing Fundamental Scaling Constraints in Imaging Systems via Nonlocal Optics (Invited Paper)
YUANMU YANG(Tsinghua Univ., China)

Su16-3 **14:30-14:45**

Mid-Infrared Lensless Upconversion Imaging via Nonlinear Pinhole Filtering
Yanan Li, Kun Huang, Jianan Fang, Zhuohang Wei and Heping Zeng (East China Normal Univ., China)

Su16-4 **14:45-15:00**

Accurate reconstruction of misregistration in push-broom imaging spectrometer
Tri Nguyen, Ba Son Nguyen, An Le and Joohyung Lee (Seoul National Univ. of Science and Technology, Korea); Huy Vu (Hanoi Univ. of Science and Technology, Vietnam)

Su16-5 **15:00-15:15**

QCL-based self-mixing platforms: from optical communication to spectroscopy sensing
Chenghong Zhang, Tecla Gabbrielli, Jacopo Pelini, Francesco Cappelli, Simone Borri and Paolo De Natale (CNR-INO, Italy); Paolo Vezio (LENS, Italy); Stefano Dello Russo and Mario Siciliani de Cumis (ASI, Italy)

Coffee Break

Session Title	Multimodal Sensing and Imaging II
Session Time	15:45-17:45
Session Chair(s)	Din Ping Tsai (City Univ. of Hong Kong, Hong Kong, China) Yuanmu Yang (Tsinghua Univ., China)

Su16-6 **15:45-16:15**

Optical imaging based on metasurfaces (Invited Paper)
Shuming Wang(Nanjing Univ., China)

Su16-7 **16:15-16:45**

Robust chirality in metasurfaces with quasi-bound states in the continuum (Invited Paper)
Jinhui Shi (Harbin Engineering Univ., China)

Su16-8 **16:45-17:00**

Mid-infrared motion deblurring via temporally structured optical gating
Min Peng, Ruiyang Qin, Jianan Fang, Kun Huang and Heping Zeng (East China Normal Univ., China)

Su16-9 **17:00-17:15**

An Aliasing-Free Scalable Diffraction Model Based on the Fractional Fourier Transform
Xu Chen, Yixiao Yang and Ran Tao (Beijing Institute of Technology, China)

Su16-10 **17:15-17:30**

Distance Analysis for Dynamic Velocity Characterization in FMCW LiDAR
Wan-Chun Lin, Cheng-Chi Hsiao and Shih-Hsiang Hsu (Taiwan Univ. of Science and Technology, Taiwan, China)

Su16-11 **17:30-17:45**

Multi-parameter sensing enabled by a two-dimensional periodic through-hole structure
Peng Dong (China Univ. of Petroleum, China); Chen Zhao and Hua Gao (China Univ. of Geosciences, China)

August 3 (Monday)

Session Title	Computational Optical Sensing and Imaging
Session Time	08:30-10:00
Session Chair(s)	Tong Peng (Xi'an Institute of Optics and Precision Mechanics, CAS, China)

Mo16-1 **08:30-09:00**

Integrated Intelligent Optical Sensing and Applications (Invited Paper)
Liwei Liu (Shenzhen Univ., China)

Mo16-2 **09:00-09:15**

Lensless Computational Holographic Lithography
Huang Kun (Univ. of Science and Technology of China, China)

Mo16-3 **09:15-09:30**

Super-resolution Microscopy of Limited-size Objects - Smaller Objects, Higher Resolution
Taeyong Chang, Eng Aik Chan and Adamo Giorgio (Nanyang Technological Univ., Singapore); Nikolay I. Zheludev (Univ. of Southampton, UK)

Mo16-4 **09:30-09:45**

Photon-efficient Single-photon Non-line-of-sight Imaging at 100 m via Temporal Binning and Self-calibration
Shan Qian, Jinxu Zhang and Guanhao Wu (Tsinghua Univ., China); Haoyang Yu (Central South Univ., China)

Mo16-5 **09:45-10:00**

Physical Multi-layer Model for Deterministic Image Reconstruction through Highly Scattering Media
Dinh Hoang Tran and Wonshik Choi (Korea Univ., South Korea)

Coffee Break

Session Title	Advances in Microscopy and Biomedical Imaging
Session Time	10:30-12:00
Session Chair(s)	Wen Chen (The Hong Kong Polytechnic Univ., Hong Kong, China)

Mo16-6 **10:30-11:00**

High Resolution Imaging through Scattering Media by Combination of Wavefront Shaping and Point Spread Function Compression (Invited Paper)
Tong Peng, Runze Li, Dan Dan, Chen Bai, Tengfei Wu, Meiling Zhou, Yanlong Yang, Ping Wang and Baoli Yao (Xi'an Institute of Optics and Precision Mechanics, CAS, China)

Mo16-7 **11:00-11:15**

Light-induced Halide Phase Separation-Engineered Yb3+:CsPbCl2Br QDs with Smart Photochromic Performance Toward Reversible Information Encryption
Xiaoyun Liu, Mingyu Pi and Dingke Zhang (Chongqing Normal Univ., China)

Mo16-8 **11:15-11:30**

Nonlinear-enabled Computational Imaging
ChitHun Mok and HongChao Liu (Univ. of Macau, Macao, China); Zhiyuan Ye (Applied Optics Beijing Area Major Laboratory, China)

Mo16-9 **11:30-11:45**

Video ghost imaging from mid-infrared to x-ray wavelengths
Ling-An Wu (Institute of Physics, CAS, China)

Mo16-10 **11:45-12:00**

Reflection matrix microscopy at 1.6 μm wavelength
Jeongwon Youm, Sungsam Kang, Jin-Hee Hong and Wonshik Choi(Korea Univ., Korea); Moonseok Kim(The Catholic Univ. of Korea, Korea)

Lunch

Session Title	Computational Optical Sensing and Imaging
Session Time	13:30-15:30
Session Chair(s)	Qiang Wu (Northumbria Univ., UK) Weirui Fang (Dalian Univ. of Technology, China)

Mo16-11 **13:30-14:00**

Imaging in Complex Media (Invited Paper)
Wen Chen (The Hong Kong Polytechnic Univ., Hong Kong, China)

Mo16-12 **14:00-14:30**

Subwavelength imaging using topological photonic crystals (Invited Paper)
Dong-Yang WANG (Univ. of Southampton, UK)

Mo16-13 **14:30-14:45**

Confocal reflectance endomicroscope through a flexible fiber bundle via adaptive phase correction
Tran Thinh Le, Anh Nguyen Thi Van, Taeil Yoon, Hoang Tran Dinh, Taeseok Daniel Yang, Youngwoon Choi and Wonshik Choi (Korea Univ., Korea)

Mo16-14 **14:45-15:00**

Iterative Dynamic Filtering-enhanced SD-OCT System for Low Noise Retinal Imaging
Zikun Jin, Weijie Sheng and Qian Li (Peking Univ., China); Peng Li (Shenzhen Certainn Technology Co., Ltd., China); Jie Xu (Guangdong Laboratory of Artificial Intelligence and Digital Economy, China)

Mo16-15 **15:15-15:30**

Multi-Parameter Modeling of High-Contrast Nulling Interferometry for Astronomical Exoplanet Imaging
Xin TAO(Beijing Institute of Space Mechanics & Electricity, China)

Coffee Break

Session Title	Optical Metrology and Topography
Session Time	15:45-17:15
Session Chair(s)	Dong-yang Wang (Univ. of Southampton, UK)

Mo16-16 **15:45-16:15**

Bent Optical Microfibres: Pushing the Limits of Biochemical and Nanonewton Force Sensing (Invited Paper)
Qiang Wu (Northumbria Univ., UK)

Mo16-17 **16:15-16:45**

σh-Broken Induced Robust topological q-BIC nanocavities (Invited Paper)
Weirui Fang, Yuzhang Liang and Wei Peng (Dalian Univ. of Technology, China)

Mo16-18 **16:45-17:00**

All-Fiber 2D Intelligent Tactile Sensing Enabled by Modal Fields Retrieved from Speckle
Qingbo Liu, Zhongyang Xu, Guangkui Tao and Shilong Pan (Nanjing Univ. of Aeronautics and Astronautics, China)

Mo16-19 **17:15-17:30**

Simultaneous Multi-frequency Upconversions in Quantum Dot-Assisted Microfibers
Yuxin Ma, Biqiang Jiang and Jianlin Zhao (Northwestern Polytechnical Univ., China)

Mo16-20 **17:00-17:15**

Distributed Circumferential Stress Sensing in Polarization-Maintaining Fiber Based on White Light Interferometry
Bozhi Zhang and Hongxia Zhang (Tianjin Univ., China)

August 4 (Tuesday)

Session Title	Multimodal Sensing and Imaging
Session Time	08:30-10:00
Session Chair(s)	Chika Kamezawa (Tohoku Univ., Japan)

Tu16-1 **08:30-09:00**

Imaging System for Edge Enhancement with Dynamic Orientation Selectivity (Invited Paper)
Xianzhong Chen, Hammad Ahmed and Chunmei Zhang (Heriot-Watt Univ., UK)

Tu16-2 **09:00-09:15**

Optically Tunable Perovskite Single-Pixel Detection for Color Image Encryption
Ai Fu, Jiahao Xiong, Xuan Zhang, Shuang-Peng Wang, Zhi-Hong Zhang and Hong-Chao Liu (Univ. of Macau, Macao, China); Zhiyuan Ye and Jun Xiong (Beijing Normal Univ., China); Zhi-Peng We (Changchun Univ. of Science and Technology, China); Shuang Zhang (Univ. of Hong Kong, Hong Kong, China)

Tu16-3 **09:15-09:30**

Cavity-Mode Analysis on a Ring Laser Gyro with Quantum Noise Suppression
Fan Zhenfang (National Univ. of Defense Technology, China)

Tu16-4 **09:30-09:45**

Efficient Medical Content Rendering for Glasses-free 3D Light-Field Interactive Display Based on Anti-aliased 3D Gaussian Splatting
Yulin Du, Haigang Ma and Peiren Wang (Tianjin Medical Univ., China); Liwei Zhao (The Second Hospital of Tianjin Medical Univ., China)

Tu16-5 **09:45-10:00**

Custom Reflectance–Fluorescence Hyperspectral System with Feature-Fusion Machine Learning for Bacterial Identification
Panuwat Pengphorm, Sukrit Thongrom, Chalongrat Daengngam, Sakkarin Lethongkam, Supayang Voravuthikunchai and Pawita Boonrat (Prince of Songkla Univ., Thailand); Chanisa Kanjanasakul (National Astronomical Research Institute of Thailand (Public Organization), Thailand); Nawapong Unsuree (Chulachomklao Royal Military Academy, Thailand)

Coffee Break

Session Title	3D Sensing and Imaging Technologies
Session Time	10:30-12:00
Session Chair(s)	Xianzhong Chen (Heriot-Watt Univ., UK)

Tu16-6 **10:30-11:00**

Three-dimensional dynamic x-ray elastography using white synchrotron radiation x-rays (Invited Paper)
Chika Kamezawa and Xiaoyu Liang (Tohoku Univ., Japan); Tetsuro Shirasawa (AIST - Research Institute of Measurement and Analysis Instrumentation, Japan); Kazuyuki Hyodo (Institute of Materials Structure Science / KEK - Photon Factory, Japan); Akio Yoneyama (SAGA Light Source, Japan); Wataru Yashiro (Tohoku Univ., Japan)

Tu16-7 **11:00-11:15**

High Dynamic Range 3D Measurement via Hybrid Fringe Projection and Phase-Guided Adaptive Line Scanning
Bin Sun, Fangzheng Lyu, Chao Zeng, Xinbei Zhang, Yingdong Li , Chunwei Zhang and Fuyang HE (Xi'an Jiaotong Univ., China)

Tu16-8 **11:15-11:30**

Quartz Enhanced Photoacoustic Spectroscopy Based Measurement of Breath Methane in 8 μm Band
Saran Kumar Krishnamoorthy and Nilesh J Vasa (Indian Institute of Technology Madras, India); Ramya Selvaraj (National Institute of Technology Raipur, India)

Tu16-9 **11:30-11:45**

Single microparticle mass measurement with modulated optical tweezers in aqueous environment
Zhendao Zhou, Shouzhuang Zhao and Shangran Xie (Beijing Institute of Technology, China)

Tu16-10 **11:45-12:00**

Self-Supervised Point Cloud Completion Via Knowledge base guided multimodal Contrastive Learning
Ming Lu and qin wang (Nanjing Univ. of Posts and Telecommunications, China)

Lunch
Poster Session (13:00-14:30)

C17

Microwave Photonics and Optical Signal Processing

Conference Room: ROOM 302

Conference Date: Aug.5 (Wed.)-Aug.5 (Wed.)

Co-chairs

Shilong Pan (Nanjing Univ. of Aeronautics and Astronautics, China)
Mable Fok (The Univ. of Georgia, USA)

Members

Cheng Wang (City Univ. of Hong Kong,Hong Kong, China)
David J. Moss (Swinburne Univ. of Technology, Australia)
Xiaoxiao Xue (Tsinghua Univ., China)
Yitang Dai (Beijing Univ. of Posts and Telecommunications, China)
Myeong Soo Kang (Korea Advanced Institute of Science and Technology, Korea)
Jianqi Hu (Univ. of Hong Kong, Hong Kong, China)
Xiaoke Yi (Univ. of Sydney, Australia)
Bing Xiong (Tsinghua Univ., China)

August 5 (Wednesday)

Session Title	Photonic THz Devices and Low-Noise Microwave Signal Generation
Session Time	08:30-10:15
Session Chair(s)	Shilong Pan (Nanjing Univ. of Aeronautics and Astronautics, China)

We17-1 **08:30-09:00**

Ultra-high-speed UTC photodetector for THz applications (Invited Paper)
Chen Baile(Shanghai Tech Univ.,China)

We17-2 **09:00-09:30**

Emerging Opportunities in Integrated Photonics with Lithium Tantalate (Invited Paper)
Chengli Wang (Shanghai Institute of Microsystem and Information Technology, CAS, China)

We17-3 **09:30-09:45**

Tunable Low-Noise Microwave Generator from Gain-Switched Self-Injection Locked DFB Laser Diode
Chengcong Li(Russian Quantum Center,Lomonosov Moscow State Univ., Russia)

We17-4 **09:45-10:00**

Terahertz Generator via Recurrent Optical Feedback Linewidth Compression in a Gain-switched Laser
Hekai Zhou,Houchen Li,Zhencan Yang,Hao Jiang,Feiliang Chen,Yang Liu,Mo Li,Jian Zhang and Fan Yang(Univ. of Electronic Science and Technology of Chin,China)

We17-5 **10:00-10:15**

Suppression of flicker noise in modulated DFB lasers
Shuai Tang and Chun Yang(Southeast Univ.,China)

Coffee Break

Session Title	Integrated Microwave Photonics and Photonic Integrated Circuit
Session Time	10:30-12:15
Session Chair(s)	Dan Zhu (Nanjing Univ. of Aeronautics and Astronautics,China)

We17-6 **10:30-11:00**

Stable microwave and mmWave using integrated optical frequency division (Invited Paper)
Xu Yi (Univ. of Virginia ,USA)

We17-7 **11:00-11:15**

Laser Linewidth Measurement Using Standard Φ-OTDR Under Phase-Noise-Dominating Conditions
Qian Zhang(China Telecom Research Institute,China;Beijing Univ. of Posts and Telecommunications, China); Xia Gao(China Telecom Research Institute,China);Zhisheng Yang and Xiaobin Hong(Beijing Univ. of Posts and Telecommunications,China);Yueqiu Mu,Xinyi Zhou and Xiaoli Huo(China Telecom Research Institute,China)

We17-8 **11:15-11:30**

Linewidth Optimization of Microcombs Based on Optical Self-Injection Locking
Yuhang Lu,Zhekai Zheng,Jijun He,Shilong Pan,Zhe Kang and Hao Zhang (Nanjing Univ. of Aeronautics and Astronautics, China)

We17-9 **11:30-11:45**

Multi-Band Chaotic Radio-Frequency Signal Generation via On-Chip Kerr Microcombs
Yanhan Pan,Ziliang Li,Zhe Kang,Shilong Pan and Jijun He(Nanjing Univ. of Aeronautics and Astronautics, China)

We17-10 **11:45-12:00**

Spatiotemporal-SSWF Image Enhancement of Fiber Optic Ultrasonic Imaging in Structural Health Monitoring
Yuhao Mei and Hao Li(Huazhong Univ. of Science and Technology,China)

We17-11 **12:00-12:15**

Multi-Dimensional Pulse Encoding Enabled by an Optoelectronic Parametric Oscillator
Ziwei Xu,Zhen Zeng,Zhiyao Zhang and Yong Liu(Univ. of Electronic Science and Technology of China, China)

Lunch

Session Title	Microwave Photonic and Opto-electronic Signal Processing
Session Time	13:30-15:15
Session Chair(s)	Xiaoxiao Xue (Tsinghua Univ., China)

We17-12 **13:30-14:00**

Microwave Photonic Signal Processing for Cognitive Radar System (Invited Paper)
Dan Zhu (Nanjing Univ. of Aeronautics and Astronautics,China)

We17-13 **14:00-14:15**

Enhanced Target Recognition for Microwave Photonic Radar via Multimodal Fusion of HRRP and ISAR image
Yang Sifei,Zhang Jiangtao,Feng Peidong,Shao Yi,Yang Zihan,Wang Lihan,Pan Shilong and Wang Xiangchuan (Nanjing Univ. of Aeronautics and Astronautics,China)

We17-14 **14:15-14:30**

FMCW LiDAR for Multi-Dimensional Vector Velocity Sensing
Yaxin Shang,Long Wang and Liang Hu(Shanghai Jiao Tong Univ.,China);Jianping Chen and Guiling Wu(Shanghai Jiao Tong Univ.,China; Shanghai Key Laboratory of Navigation and Location Based Services,China)

We17-15 **14:30-14:45**

Integrated Silicon Photonic Multichannel Optical Hybrid for Broadband Signal Image-reject
Yan Fan,Libo Teng and Wenyan Xiong(Southeast Univ.,China);Jiao Zhang and Junhao Zhang(Purple Mountain Laboratories, China);Zhengyu Guo,Zelong Chen,Haoran Wang,Hao Deng,Ziyang Xiong,Tong Lin,Junpeng Lu and Zhenhua Ni(Southeast Univ.,China)

We17-16 **14:45-15:00**

Multi-Channel Photonic Fractional Fourier Transformer with Independent Order Reconfigurability
Wang Yuxi,Zhao Xiaolong,Zhang Weifeng and Wang Bin(Beijing Institute of Technology,China)

We17-17 **15:00-15:15**

Random Photonic Microwave Pulse Generation in Mutually Coupled Lasers by Intermittent Dynamics
Shi-Ya Wang,Mu-Yang Li,Wen-Hao Jiang and Sze-Chun Chan(City Univ. of Hong Kong,Hong Kong,China)

Coffee Break

Session Title	Microwave Photonic Subsystems and Systems
Session Time	15:45-18:00
Session Chair(s)	Xiaoxiao Xue (Tsinghua Univ., China)

We17-18 **15:45-16:15**

Brillouin Laser-Enabled Photonic Stepped-Frequency Radar (Invited Paper)
Ziqian Zhang,Benjamin Eggleton,Ryan Russell,Choon Kong Lai(The Univ. of Sydney, Australia;ARC Centre of Excellence in Optical Microcombs for Breakthrough Science, Australia)

We17-19 **16:15-16:30**

Massive Reconfigurable Microwave Generation Based on Self-Synchronized Dual-Comb Technology
Yujun Chen and Xuguang Zhang(Peking Univ.,China);Ke Zhang(City Univ. of Hong Kong,Hong Kong, China);Xiangpeng Zhang and Lei Zhang(Peking Univ.,China);Yikun Chen,Chengfei Shang and Cheng Wang(City Univ. of Hong Kong,Hong Kong, China);Lin Chang(Peking Univ.,China)

We17-20 **16:30-16:45**

Absolute Frequency Stabilization of a Brillouin Fiber Laser via a Dual-Loop Phase-Locking
Siyi Feng and Wei Wei(Beijing Institute of Technology,China)

We17-21 **16:45-17:00**

Hybrid Integrated Microwave Photonic Radar System Based on Photonic Wire Bonding
Mengya Zong(Nanjing Univ. of Aeronautics and Astronautics, China);Jun Lu(Nanjing Univ., China);Jijun He,Simin Li and Shilong Pan(Nanjing Univ. of Aeronautics and Astronautics, China)

We17-22 **17:00-17:15**

Microwave Frequency Comb Generation Based on a Dual-loop Self-mode-locking Optoelectronic Oscillator
Tongtong Xie(Xiamen Univ.,China);Hao Chen(Zhejiang normal Univ.,China)

We17-23 **17:15-17:30**

Integrated Sensing and Communication System in Fiber Ring Resonators Utilizing Dual-Carrier Demodulation
Shihao Zhou(Shenyang Aerospace Univ., China);Shuang Zhang(Wuhan Univ. of Science and Technology, China);Shude Ji and Heng Wang(Shenyang Aerospace Univ.,China);Kun Xiao,Rui Min and Zhuo Wang (Beijing Normal Univ., China)

We17-24 **17:30-17:45**

Time-Freq Fusion for Accurate and Rapid TOA Estimation in Fiber-Optic Ultrasound Imaging
Zilei Gao and Hao Li (Huazhong Univ. of Science and Technology , China)

We17-25 **17:45-18:00**

Reconfigurable and Scalable Frequency-Domain Photonic Solver for NP-complete problems
Jiajun Wu,Zhiqiang Cheng and Yuan Yu(Huazhong Univ. of Science and Technology, China)

C18
AI in Optics and Photonics

Conference Room: ROOM 308
Conference Date: Aug.2 (Sun.)-Aug.5 (Wed.)

Co-chairs

Liangcai Cao (Tsinghua Univ., China)
Ryoichi Horisaki (The Univ. of Tokyo, Japan)

Members

Haejun Chung (Hanyang Univ., Korea)
Kaiyu Cui (Tsinghua Univ., China)
Hongwei Chen (Tsinghua Univ., China)
Jianji Dong (Huazhong Univ. of Science and Technology,China)
Chulmin Joo (Yonsei Univ., Korea)
Seieong Kim (The Univ. of Melbourne, Australia)
Hyounghan Kwon (Korea Institute of Science and Technology, Korea)
Junsuk Rho (Pohang Univ. of Science and Technology, Korea)
Xingjun Wang (Peking Univ., China)
Shuiying Xiang (Xidian Univ., China)
Masahiro Yamaguchi (Institute of Science Tokyo, Japan)
Qiming Zhang (Univ. of Shanghai for Science and Technology, China)

August 2 (Sunday)

Session Title	Optical Neural Network I
Session Time	13:30-15:15
Session Chair(s)	Liangcai Cao (Tsinghua Univ., China)

Su18-1 **13:30-14:00**

Disordered metasurface platform for spectral sensing and imaging (Invited Paper)
Gookho Song,Dong-gu Lee,Nahee Kim and Mooseok Jang (KAIST, Korea)

Su18-2 **14:00-14:15**

Photonic Parameter-Efficient Neural Linear Layers via Programmable Interferometric Meshes
Mikhail Saygin(Sber Quantum Technology Center,Russia;M.V. Lomonosov Moscow State Univ.,Russia); Artem Popov(M.V. Lomonosov Moscow State Univ.,Russia);Stanislav Straupe(Sber Quantum Technology Center,Russia;M.V. Lomonosov Moscow State Univ.,Russia)

Su18-3 **14:15-14:30**

Interpretable variable-neuron-density training framework for diffractive optical neural networks
Shengyao Xu,Weicong Liang,Feng Huang and Weijie Chang(Fuzhou Univ.,China)

Su18-4 **14:30-14:45**

Diffractive optical neural network for helico-conical beams recognition
Dongye Xu,Zehui Lu,Yifan Wang,Wei Lin,Hao Zhang and Bo Liu(Nankai Univ.,China)

Su18-5 **14:45-15:00**

Intelligent harmonic mode-locking fiber laser via deep learning-guided adaptive search algorithm
Chuhui Zhang,Wei Zhu,Shaokai Wang and Xueming Liu(Southeast Univ.,China)

Su18-6 **15:00-15:15**

Silicon Photonic Reservoir Networks Enabling Sub-Nyquist Sampling
Yuito Ito(Kanazawa Univ.,Japan);Anas Skalli(FEMTO-ST Institute,France);Satoshi Sunada(Kanazawa Univ.,Japan)

Coffee Break

Session Title	Optical Neural Network II
Session Time	16:15-17:30
Session Chair(s)	Seung Ah Lee (Seoul National Univ.,Korea)

Su18-7 **16:15-16:30**

Equilibrium Propagation-Based Neural Network Training on an Optoelectronic Feedback Ising Machine
Jiayi Gao,Jiakai Dong,Yibin Wan,Jiahong Lai,Junyi Liu,Siyuan Yu and Jie Liu(Sun Yat-sen Univ.,China)

Su18-8 **16:30-16:45**

Wavelength-division-multiplexed time-domain photonic extreme learning machines for dimensionality expansion via an electro-optic frequency comb
Daichi Hitotsumatsu and Naoya Kuse(Tokushima Univ., Japan)

Su18-9 **16:45-17:00**

Deep Photonic Reservoir Computer for Ghost Imaging Reconstruction
Hao-Tian Zhu,Fei Wang,Yi Song,Zheng-Can Sun,Hai-Fei Guo,Guohai Situ and Cheng Wang(ShanghaiTech Univ.,China)

Su18-10 **17:00-17:15**

Enhancing Generalization Performance of Metasurface-based Optical Neural Networks via Representation Learning
Deyu Cao,Chun Ren,Chiyun Li,André Röhm,Ryoichi Horisaki and Takuo Tanemura(The Univ. of Tokyo, Japan)

Su18-11 **17:15-17:30**

A Physics-Aware Platform for Low-Precision Deployment of Complex-Valued Optical Neural Networks
Yuxin Sun,Chun Gao,Hongyan Shi,Huan Li and Daoxin Dai(Zhejiang Univ.,China)

August 3 (Monday)

Session Title	Optical Neural Network III
Session Time	08:30-10:00
Session Chair(s)	Jingtian Hu (Harbin Institute of Technology,China)

Mo18-1 **08:30-09:00**

Diffractive processors for extraordinary optical denoising (Invited Paper)
Jingtian Hu(Harbin Institute of Technology,China)

Mo18-2 **09:00-09:15**

On the Creativity and Intuition of AI Based on the Complex-Domain Quantum Framework
Mingyu Zhao(Independent researcher,China)

Mo18-3 **09:15-09:30**

Microring Weightbank for Photonic Signed Multiplication
Minkyu Cho,Yongjin Ji and Woo-Young Choi(Yonsei Univ.,Korea)

Mo18-4 **09:30-09:45**

A knowledge-distillation-based metasurface hybrid optoelectronic neural network with spatial tiling optical convolution
Weijie Chang,Jintong Li,Feng Huang and Shengyao Xu(Fuzhou Univ.,China)

Mo18-5 **09:45-10:00**

An over 13 TOPS Complex-Valued Optoelectronic Neuromorphic Accelerator Achieved by Quadratic Scaling Using Optical Frequency Comb
Ying Zhu(National Information Optoelectronics Innovation Center,ChinaHubei Optical Fundamental Research Center,China);Yifan Liu,Xin Hua,Yanjing Zhao,Xinyu Yang and Kailai Liu(National Information Optoelectronics Innovation Center,China);Yuhan Gong and Chao Yang(State Key Laboratory of Optical Communication Technologies and Network,China);Ming Luo,Hongguang Zhang and Daigao Chen(State Key Laboratory of Optical Communication Technologies and Network,China);Xi Xiao(National Information Optoelectronics Innovation Center,China;Peng Cheng Laboratory,China;State Key Laboratory of Optical Communication Technologies and Network,China)

Coffee Break

Session Title	Optical Neural Network IV
Session Time	10:30-12:00
Session Chair(s)	Haoyi Yu (Univ. of Shanghai for Science and Technology,China)

Mo18-6 **10:30-11:00**

High dimensional optical neural computing via multimode propagation (Invited Paper)
Haoyi Yu ,Simone Lamon,Qiming Zhang and Min Gu(Univ. of Shanghai for Science and Technology,China)

Mo18-7 **11:00-11:15**

Deep Deterministic Policy Gradient-Controlled Cascaded Micro-Ring Modulator Array for High-Speed Optical Computing
Yifan Liu,Ying Zhu,Xinyu Yang,Xueyi Jiang,Jia Liu,Hongguang Zhang,Daigao Chen and Xi Xiao(National Information Optoelectronics Innovation Center, China)

Mo18-8 **11:15-11:30**

Single-view processing of LiDAR based on photonic neural network
Qi Chen(Beijing Univ. of Posts and Telecommunications,China);Junmin Lin(China Telecom Unmanned Technology Co., Ltd.,China);Zili Cai,Jubo Hao,Tian Zhang,Jian Dai and Kun Xu(Beijing Univ. of Posts and Telecommunications, China)

Mo18-9 **11:30-11:45**

Topology-Enhanced AI for Robust Topological Optical Communication
Benquan Wang and Yijie Shen(Nanyang Technological Univ.,Singapore)

Mo18-10 **11:45-12:00**

Photonic Compilation of MedGemma-4B: An SVD-Clements Pipeline for Medical AI Inference on Silicon Photonic Chips
Dalton Omondi(Kenyatta Univ.,Kenya)

Lunch

Session Title	Computational Optics and AI I
Session Time	13:30-15:15
Session Chair(s)	Kaiyu Cui (Tsinghua Univ., China)

Mo18-11 **13:30-14:00**

On-chip Spectral Imaging and Sensing (Invited Paper)
Kaiyu Cui and Chi Zhang (Tsinghua Univ., China)

Mo18-12 **14:00-14:15**

Video-Rate Lensless Microscopy via Deep Learning
Yunhui Gao and Liangcai Cao (Tsinghua Univ., China)

Mo18-13 **14:15-14:30**

Physics-informed Learning in Phase-Contrast Microscopy for Phase Retrieval and Optical Parameter Estimation
Rikimaru Kurata,Keiichiro Toda,Takuro Ideguchi and Ryoichi Horisaki(The Univ. of Tokyo,Japan)

Mo18-14 **14:30-14:45**

Neural pupil engineering for off-axis Fourier ptychography
Shuhe Zhang and Liangcai Cao (Tsinghua Univ.,China)

Mo18-15 **14:45-15:00**

Computational Achromatic Large-scale Diffractive Optics Element Imaging
Wei Jinwen and Liangcai Cao (Tsinghua Univ.,China)

Mo18-16 **15:00-15:15**

Hybrid CNN-Transformer network reconstruction for swept coded aperture real-time femtophotography
Han LU,Guohai SITU and Jingdan LIU(Shanghai Institute of Optics and Fine Mechanics, CAS; Univ. of Chinese Academy of Sciences,China)

Coffee Break

Session Title	Computational Optics and AI II
Session Time	16:15-17:30
Session Chair(s)	Jae-Sang Hyun (Yonsei Univ.,Korea)

Mo18-17 **16:15-16:30**

Computational microscopic imaging for spectral decoupling
Chen'ao Tu,Yixiang Qian and Bo Dai(Univ. of Shanghai for Science and Technology,China)

Mo18-18 **16:30-16:45**

Physics-Guided Deep Learning for Artifact-Free Lensless Fiber Imaging
Zewen Ma and Liangcai Cao(Tsinghua Univ.,China)

Mo18-19 **16:45-17:00**

Lensless Depth Sensing with Programmable Point Spread Functions
Yuting Li,Conghe Wang,Zheng Huang,Caihua Zhang,Sigang Yang and Hongwei Chen(Tsinghua Univ.,China)

Mo18-20 **17:00-17:15**

Learned Complex-valued Dataset Construction for Single-Shot Phase Retrieval
Long Chen and Yixiao Yang(Beijing Institute of Technology,China);Ziyang Li and Zhengjun Liu(Harbin Institute of Technology,China);Ran Tao(Beijing Institute of Technology,China)

Mo18-21 **17:15-17:30**

Optical Spatial-frequency Hybrid Computing for Remote Sensing
Conghe Wang,Caihua Zhang,Zheng Huang,Yuting Li,Junpeng Chen,Wencan Liu,Run Sun,Sigang Yang and Hongwei Chen(Tsinghua Univ.,China)

August 4 (Tuesday)

Session Title	AI for Imaging, Display,Sensing I
Session Time	09:00-09:45
Session Chair(s)	Chao Zuo (Nanjing Univ. of Science and Technology,China)

Tu18-1 **09:00-09:15**

Adaptive calibration in quantitative phase microscopy with a physics-informed cycle-consistent network
Danlin Xu,Yunhui Gao and Liangcai Cao(Tsinghua Univ.,China)

Tu18-2 **09:15-09:30**

Combination of Attention Induced Backbone and Residual Connected Neck for UAV Detection
Wei Wang,Jin Liu,Jianhua Shi,Yaxiu Zhang,Yan Zhang and Xingwei Yan(National Univ. of Defense Technology,China)

Tu18-3 **09:30-09:45**

Pipeline Flow Rate Monitoring Using Distributed Acoustic Sensing and Lightweight Neural Network
Ruiqing Tang,Fei Liu,Yichen Wang,Dan Li,Tong Zhou,Xian Zhou and Xin Huang(Univ. of Science and Technology,China)

Coffee Break

Session Title	AI for Imaging, Display,Sensing II
Session Time	11:00-12:00
Session Chair(s)	Xin Yuan (Westlake Univ.,China)

Tu18-4 **11:00-11:15**

Neural Phase Demodulation for Robust 3×3 Fiber-Optic Interferometric Displacement Sensing
Muhammad Awais,Muhammad Usman,;Minseo Cho and Byeong Ha Lee(Gwangju Institute of Science and Technology, Korea)

Tu18-5 **11:15-11:30**

Fusion of Deep Learning and Optical Metrics in Optical Coherence Tomography for Rice Grading
Yuantong Liu,Xinxu Duan and Lei Jin(Harbin Engineering Univ., China)

Tu18-6 **11:30-11:45**

Physics-Informed In-Sensor Spectral Learning with Temporal Transformers for Real-Time Industrial Endpoint Prediction
Chi Zhang,Tianhao Liu and Kaiyu Cui(Tsinghua Univ., China)

Tu18-7 **11:45-12:00**

Improving the optical throughput of grating and Fourier transform spectrometers with deep learning
Xujin Hu,Xu Liu,Linwei Shang,Jianhua Yin and Huijie Wang(Nanjing Univ. of Aeronautics and Astronautics, China)

Lunch

Poster Session (13:00-14:30)

Session Title	AI for Imaging, Display,Sensing III
Session Time	14:30-15:30
Session Chair(s)	Wen Chen (The Hong Kong Polytechnic Univ.,Hong Kong,China)

Tu18-8 **14:30-15:00**

Machine Learning-based Imaging through Scattering Media (Invited Paper)
Wen Chen(The Hong Kong Polytechnic Univ.,Hong Kong,China)

Tu18-9 **15:00-15:15**

Influence of spectral line importance in laser-induced breakdown spectroscopy on the classification of penicillin
Chundong Xu,Yinghui Qi,Kai Wei,Geer Teng,Keliu Long,Rui Liu and Songzhen Zhang(Jiangxi Univ. of Science and Technology,China)

Tu18-10 **15:15-15:30**

Deep Learning-Enabled Resolution of Free Spectral Range Ambiguity in High-Sensitivity Si3N4 MZI Sensors
Tianyang Fu,Zefan Duan,Kaixin Chen and Jieyun Wu(Univ. of Electronic Science and Technology of China,China)

Coffee Break

Session Title	AI for Metaoptics and Inverse Design
Session Time	16:00-17:30
Session Chair(s)	Changhyun Kim (Yonsei Univ.,Korea)

Tu18-11 **16:00-16:30**

Computational metasurface optics for compact imaging system and image sensors (Invited Paper)
Changhyun Kim(Yonsei Univ.,Korea)

Tu18-12 **16:30-16:45**

Nyquist-sampled time-domain adjoint optimization for efficient nanophotonics inverse design
Mingyu Park and Haejun Chung(Hanyang Univ.,Korea)

Tu18-13 **16:45-17:00**

Color2Struct: efficient and accurate deep-learning inverse design of structural color with controllable inference
Sichao Shan,Zhitong Li and Zhengmei Yang(Beijing Univ. of Posts and Telecommunications,China); Junpeng Hou(Pinterest Inc., USA)

Tu18-14 **17:00-17:15**

High-fidelity Optical Scattering Prediction in Perturbed Multimode Propagation via PCA-MLP Surrogate
Zhuocheng Li,Xiuzhi Chen,Ruilin Liao,Qiqi Chen,Ziyu Ying,Shaoyuan Guo,Yunping Bai,Xingyuan Xu,Kun Xu and Chao Wang(Beijing Univ. of Posts and Telecommunications,China)

Tu18-15 **17:15-17:30**

Superpixel Microscopy for Superresolution Imaging of Arbitrary Shape and Size Objects
Benquan Wang,Jin-Kyu So,Eng Aik Chan,Ruyi An,Yewen Li,Zexiang Shen,Bo An,Giorgio Adamo and Nikolay I Zheludev(Nanyang Technological Univ.,Singapore)

August 5 (Wednesday)

Session Title	AI for Photonic Optimization I
Session Time	08:30-10:00
Session Chair(s)	Minho Choi (UNIST-Ulsan National Institute of Science and Technology, Korea)

We18-1 **08:30-09:00**

Front-End Optical Processing: Meta-Optics for Next-Generation AI (Invited Paper)
Minho Choi(UNIST-Ulsan National Institute of Science and Technology,Korea)

We18-2 **09:00-09:15**

Multi-fidelity neural surrogates for efficient nonlocal optimization of high-NA metalenses
Shaoyan Li and Sang-Shin Lee(KwangWoon Univ.,Korea)

We18-3 **09:15-09:30**

Nested Learning for Meta-Optics and Nanophotonics Simulations
Chanik Kang,Hyewon Suk,Jiwoo Kim,Jaeyoung Soh,Minjin Kim,Kyungmin Kim,Jinseong Bae and Haejun Chung (Hanyang Univ.,Korea)

We18-4 **09:30-09:45**

Wavefront Correction Based on Deep Neural Networks in Structured Modal Beam Generation
Zizheng Wang,Gan Wang,Jingtao Wu,Yidi Feng,Mian Wu,Zhen Li and Jin Tao(China Information and Communication Technologies Group Corporation,China)

We18-5 **09:45-10:00**

Adaptive Neural Hologram Synthesis Across Pixel Pitches and Reproduction Distances
Otoya Shigematsu and Ryoichi Horisaki(The Univ. of Tokyo,Japan)

Coffee Break

Session Title	AI for Photonic Optimization II
Session Time	11:00-11:30
Session Chair(s)	Minho Choi (UNIST-Ulsan National Institute of Science and Technology, Korea)

We18-6 **11:00-11:15**

Fast Prediction of Soliton Dynamics in an NPI Mode- Locked All-PM Linear-Cavity Fiber Laser via Bi-LSTM
Linanna Qi,Ruifeng Chen and Qian Li(Peking Univ.,China)

We18-7 **11:15-11:30**

Graph Neural Networks for Adaptive Parameter Estimation in Coherent Ising Machine
Zhiguo Nie(Beijing Normal Univ.,China); Ruoxing Guo(Beijing Univ. of Posts and Telecommunications,China); Chuan Wang(Beijing Normal Univ.,China); Yongpan Gao(Beijing Univ. of Posts and Telecommunications,China)

Lunch

POSTER SESSION

Convention Hall 4 13:00-14:30

C-001

AIOps-driven Intelligent Alarm for Optical Modules in Data-center Networks
Jinkun Jiang, Chao Li, Wenzhi Wang, Weisong Guo, Pengchong Li and Xiang Chen(IEIT SYSTEMS Co., Ltd.,China)

C-002

LLM-Assisted Double DQN Training for Snapshot-Based Routing in LEO Satellite Networks
Fu Yansong, Wang Wei, Lian Meng, Ni Ruikang and Zhao Yongli(Beijing Univ. of Posts and Telecommunications, China)

C-003

Field Trial of an Opto-Electrical Coordinated Protection Scheme for Sub-50 ms Multi-Fault Recovery in Transmission Networks for AI Training
Yakun Hu, Shikui Shen, Chuangye Wang, Zelin Wang, He Zhang, Yanxia Tan and Xiangkun Man(China Unicom Research Institute,China); Chuanxi Zhang(China Information Technology Designing & Consulting Institute,China); Guangquan Wang and Xiongyan Tang(China Unicom Research Institute,China)

C-004

Deep Reinforcement Learning Based Routing, Wavelength and Time slot Assignment in WDM Networks
Ziyi Shen, Shifeng Ding and Chun-Kit Chan(Chinese Univ. of Hong Kong,Hong Kong,China)

C-005

ADTP-Based Multiparameter Optical Performance Monitoring for PAM Channels
Xiaoke Wu(Xi'an Jiaotong Univ.,China); Si-Ao Li(Nankai Univ.,China); Yuxiang Huang, Muhammad Fehzan Rashid and Qinru Peng(Xi'an Jiaotong Univ.,China); Huaizhi Hong(Jilin Univ.,China); Zhongqi Pan(Univ. of Louisiana at Lafayette,USA); Yang Yue(Xi'an Jiaotong Univ.,China)

C-006

Enhanced GLDPC Decoding Exploiting Non-Uniform a Priori Information for the PAS-Enabled HCF System
Changfeng Wang(Tsinghua Univ.,China; Pengcheng Laboratory,China); Rui Jiang and Xinke Tang (Pengcheng Laboratory,China); Jian Song and Yuhan Dong(Tsinghua Univ.,China)

C-007

Physical Layer Encryption Leveraging Polarization-Dependent Loss for Coherent Optical Systems
Yijia Liao and Nantao Xu(Beijing Univ. of Posts and Telecommunications,China); Yang Xiao(Hainan Power Grid Co., Ltd.,China); Zeyu Xu and Xianfeng Tang(Beijing Univ. of Posts and Telecommunications, China)

C-008

ExtBiMamba-Based Modeling for Optical Fiber Channel
Peijun Yu, Rui Wang, Jiaming Liu, Bo Xu and Jing Zhang(Univ. of Electronic Science and Technology of China,China)

C-009

Real-Time 17×2.4-Tb/s Full C-band 200-km Transmission with Super-Channel Signals
Mu Yueqiu, Zhang Anxu, Liu Yuyang, Zhou Xinyi, Zhang Qian and Huo Xiaoli(China Telecom Research Institute,China)

C-010

Guard-Band-Assisted Digital Pilot Tone for Online Crosstalk Monitoring in MCF Transmission Systems
Yifan Gou, Jun Dong, Wen Zhuang, Zhuo Wang, Tianwai Bo, Yi Dong and Zhongwei Tan(Beijing Institute of Technology,China)

C-011

Single-Wavelength 2.88 Tb/s PAM-8 Optical Interconnect over High Density 8-Core Fiber Enabled by Advanced Neural Network Equalization
Zhaopeng Xu, Honglin Ji, Yu Yang, Tonghui Ji, Lulu Liu, Shangcheng Wang, Linsheng Fan, Zhongliang Sun, Junpeng Liang, Jinlong Wei, Xinke Tang, Rui Jiang, Qibing Wang, Xu Zhang and Zhixue He (Pengcheng Laboratory,China)

C-012

Demonstration of SDN-Controlled Real-Time Multi-User OFDM-VLC System with Adaptive Resource Allocation
Yutong Luo, Jianhang Li, Chengju Hu and Jian Zhao(South China Univ. of Technology,China)

C-013

Chromatic Dispersion-Tolerant Wavelength-Reuse Bidirectional OFDM Optical Transmission for Mobile Fronthaul Networks
Joungmoon Lee, Jinwoo Park and Sang-Kook Han(Yonsei Univ.,Korea)

C-014

Phase Recovery for Tight Time-Packing FTN Transmissions via Delayed Poly-binary Transformation and MAP Directed Blind Phase Search
Xishuo Wang and Kai Lv(China Telecom Research Institute,China); Zhipei Li(Beijing Institute of Technology, China); Xia Sheng, Yuyang Liu and Hao Liu(China Telecom Research Institute,China); Xiaolong Pan(Beijing Institute of Technology,China); Lei Zhu(Beijing Univ. of Posts and Telecommunications,China); Ran Gao and Xiangjun Xin(Beijing Institute of Technology,China)

C-015

FEC Aided Mitigation of Multi-Path Interference for IMDD Very High-Speed PON
Xinran Huang(China Telecom Research Institute,China); Jun Ming and Ze Dong(Beijing Institute of Technology, China); Ming Jiang and Dezhi Zhang(China Telecom Research Institute,China)

C-016

Model-Driven Deep Unfolding Network for Low-Complexity GLDPC Decoding in High-Speed HCF Systems
Changfeng Wang(Tsinghua Univ.,China; Pengcheng Laboratory,China); Rui Jiang and Xinke Tang(Pengcheng Laboratory,China); Jian Song and Yuhan Dong(Tsinghua Univ.,China)

C-017

Nonlinear equalizer using a meta-learning-assisted bidirectional gated recurrent unit network for coherent optical communication systems
Di Zhang(East China Normal Univ.,China; Hefei National Laboratory and Shanghai Research Center for Quantum Sciences,China); Junyao Shi(East China Normal Univ.,China); Yan Ling Xue (East China Normal Univ.,China; Hefei National Laboratory and Shanghai Research Center for Quantum Sciences,China)

C-018

ZnF2 -AlF3 Modified Highly Stable Fluorozirconate Glasses and Fibers
Chanjun Xu(Northeast Normal Univ.,China)

C-019

An anti-resonant hollow-core waveguide-based high-sensitivity fluidic sensor for terahertz applications
GUOFU XU, MAOSHENG Yang and QILIN MA(West Anhui Univ.,China); YANG CAO(Hebei Univ. of Technology,China)

C-020

A Study on Sensitivity Enhancement Mechanism of Optical Waveguide SPR Sensor
Jianting Wang, Xingeng Guo, Jiayi Fang, Haolong Huang, Xuanlin Guo and Qingming Chen(Sun Yat-Sen Univ.,China)

C-021

Near-Infrared Strain Sensing Using Cholesteric Liquid Crystal Elastomer Actuators under Uniaxial Deformation
Na Hyeon Hwang, Soyeon Ahn, Min Su Kim, Ji Su Kim, Sung Yoon Cho, Minjun Kim and Min Yong Jeon (Chungnam National Univ.,Korea)

C-022

RAF-Solver: An Open-Source Mesh-Free Tool for Mode Analysis of Ring-Assisted Fibers
An Yi, Jiang Min, He Xiangyue, Li Chaolong, Shao Shuai, Gao Xianzhong and Li Jun(National Univ. of Defense Technology,China); Huang Liangjin(Han's Laser Technology Industry Group Co., Ltd.,China); Zhou Pu(National Univ. of Defense Technology,China)

C-023

Epsilon-Near-Zero Mode Excitation in D-Shaped Fiber for Refractive Index Sensing
Huang Yan, Le Yong, Zhang Shengdong and Li Qian(Peking Univ.,China)

C-024

Rapid-Response Humidity Sensing and Respiration Monitoring Using a Graphene-Oxide-Coated Long-Period Fiber Grating
Hanyue Wang, Qianwen Luo, Huaijin Zheng, Shengjie Li, Chenlin Du, Chunbo Li, Yufeng Zhang, Dezhi Liang, Shuangchen Ruan and Yongqin Yu(Shenzhen Technology Univ.,China)

C-025

Specific identification of butanol isomers via MOF-functionalized on-chip photonic waveguide sensor arrays
Xin Kang,Peng Qin and Xuetao Gan (Northwestern Polytechnical Univ.,China)

C-026

A Vector Vibration Sensor using a Four-Core Fiber with Helical Long-Period Gratings
Tianjun Zhou, Yunhe Zhao, Fei Pan and Ya-nan Zhang(Shanghai Maritime Univ.,China; Institute of Logistics Science and Engineering,Korea); Heming Wei and Yunqi Liu(Shanghai Univ.,China)

C-027

Portable Dye-Doped Polymer Optical Fiber Sensor for Wearable Finger Bending Detection
Xiaoshi Li, Jiayi Fang, Yikang Peng and Qingming Chen(Sun Yat-Sen Univ.,China)

C-028

Multi–energy-scale excited-state in fiber-integrated van der Waals materials
Kaifeng Lin, Hao Hong and Kaihui Liu(Peking Univ.,China)

C-029

1.6 dB/km Hollow-Core Fiber for 156-MW Femtosecond Pulse Flexible Delivery
Wei Gao(Beijing Jiaotong Univ.,China); Zhenggang Lian, Zhijun Luo, Qiujun Ruan and Weizhen Zhu (Yangtze Optical Electronic Co., Ltd.,China); Xin Wang and Shuqin Lou(Beijing Jiaotong Univ.,China)

C-030

Optically Driven Metal-Fiber Microheaters with Different Attenuations for Controlled Thermal Response
Young-min Ko, Yeon-gwan Kim, Jong-ju Moon, Jeong-won Park and Tae-Jung Ahn(Chosun Univ-Photonic Engineering,Korea)

C-031

Anti-Resonant Ring-Core Non-Zero Dispersion-Shifted Fiber for OAM Modes
Yankai Chao(Xi'an Jiaotong Univ.,China; Jilin Univ.,China); Yuxiang Huang(Xi'an Jiaotong Univ.,China); Zhongqi Pan(Univ. of Louisiana at Lafayette,USA); Yang Yue(Xi'an Jiaotong Univ.,China)

C-032

Amplification of Four-petal Gaussian Beam based on diode pumped alkali amplifier
Yuhui Kong, Yijun Zou and Ernan Ju(Dalian Neusoft Univ. of Information,China)

C-033

Ribbed Negative-Curvature Anti-resonant Hollow-Core Fiber
Yuhong Song and Qiang Fu(College of Physics and Optoelectronic Engineering & Key Laboratory of Optoelectronic Devices and Systems of Ministry of Education,China)

C-034

A dynamic transverse mode instability model considering the impact of heat load and bending in fiber amplifiers
Li Guanzhong, Xiao Qirong, Yan Ping and Li Dan(Tsinghua Univ.,China)

C-035

Efficient Fabrication of Tilted Fiber Bragg Gratings by Cylindrical-Lens Beam Shaping
Ma Yuehui(Anhui Univ.,China); Zhou Kaiming and Kamarudin Lukman(Aston Univ.,UK; Aston Institute of Photonic Technologies,UK); Jiang Chen(Nanjing Univ. of Posts and Telecommunications, China); Chen Siyu(Shanghai Univ.,China; Joint International Research Laboratory of Specialty Fiber Optics and Advanced Communication,China); Wang Zhiqiang(Anhui Univ.,China); Mou Chengbo and Liu Yunqi (Shanghai Univ.,China; Joint International Research Laboratory of Specialty Fiber Optics and Advanced Communication,China)

C-036

Synchronized Q-Switched Pulse Dynamics and Theoretical Modeling in a Single-Resonator Triangular Gain-Waveguide Array in Bulk Yb:YAG
Duyeon KIM, Seongsu KIM, Sejun OH, Jeongmo KIM and Hyun Su KIM(Chosun Univ.,Korea)

C-037

Over-1500th-order Hermite-Gaussian and Laguerre-Gaussian Mode Laser Based on off-axis Pumping
Jianing Li, Zhibo Zhao, Quan Sheng, Dechen Zhan, Tianchang Liu, Di Liu, Chunpeng Shi, Shijie Fu, Wei Shi and Jianquan Yao(Tianjin Univ.,China)

C-038

Mode dynamics during supercontinuum generation in graded-index multimode fiber
Mikhail Gervaziev(Novosibirsk State Univ.,Russia); Nikita Bochkarev, Denis Kharenko and Sergey Babin (Novosibirsk State Univ.,Russia; Institute of Automation and Electrometry SB RAS,Russia); Stefan Wabnitz(Novosibirsk State Univ.,Russia; Sapienza Univ. of Rome,Italy)

C-039

Heterogeneous 16-Ring-Core Non-Zero Dispersion-Shifted Fiber for OAM Modes
Yuxiang Huang and Wenqian Zhao(Xi'an Jiaotong Univ.,China); David Kaibo Wang(Carlmont School,USA); Yankai Chao(Jilin Univ.,China); Xulang Chen(Xi'an Jiaotong Univ.,China); Zhongqi Pan(Univ. of Louisiana at Lafayette,USA); Yang Yue(Xi'an Jiaotong Univ.,China)

C-040

Mid-infrared integrated light sources enabled by laser written photonic devices in tailored fluoride glasses
Tinghui An(ShanghaiTech Univ.,China; Shanghai Institute of Optics and Fine Mechanics, CAS,China); Wajahat Hussain(Macquarie Univ.,Australia); T. Toney Fernandez(Adelaide Univ.,Australia); Yuchen Wang and Yiguang Jiang(Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences,China); Benjamin Johnston(Macquarie Univ.,Australia); Solenn Cozic, Marcel Poulain and Thiphaine Rault(Le Verre Fluoré,France); Long Zhang(Shanghai Institute of Optics and Fine Mechanics, CAS,China); Alexander Fuerbach(Macquarie Univ.,Australia)

C-041

Ambient-Air, Room-Temperature High-Energy Thulium-Doped Regenerative Amplifier
Dai Shibo(Jinan Univ.,China)

C-042

Mitigation of Frequency-Selective Fading for Non-Circularly Symmetric LP Modes Using Modal Orthogonal Combining Reception
Kuohai Zhang, Yutong Han, Sihong Bao, Youle Ni, Hang Xiao, Xian Zhou and Yuyang Gao(Univ. of Science and Technology Beijing,China)

C-043

Development of a T-shaped Dual-wavelength Intracavity Frequency-doubled Nd:YVO4/KTP Green Laser
Sangmu Kim and Joohyung Lee(Seoul National Univ. of Science and Technology,Korea)

C-044

9.1-Watt, 1-kHz nanosecond gain-switched Ti:Sapphire laser
Chen Cui, Xinchong Fang, Kaihao Zhang, Xinchen Chen, Shuyi Mi, Weimin Wang and Shilie Pan(Xinjiang Technical Institute of Physics and Chemistry,Chinese Academy of Sciences,China)

C-045

Modal decomposition in anti-resonant hollow-core fibers using off-axis holography
Yuxin Dai and Shangran Xie(Beijing Institute of Technology,China)

C-046

Simulation Study on the Mixing Coefficient of Coupling Adhesive for Image Intensifiers Based on Silicon Photonic Sensing
Xianghu Wu, Junguo Li, Xueqin Zhao, Xiwen Ding, Jialiang Gao and Chi Qin(Kunming Institute of Physics, China; Science and Technology on Low-Light-Level Night Vision Laboratory,China); Xianghu Wu(Kunming Institute of Physics,China)

C-047

1.5 μm broadband ultrafast laser for mid-infrared light sources and saturable absorbers with nanostructures
Wanli Luo(Changchun Univ. of Science and Technology,China); Tianguo Zhang (Nanjing Univ. of Information Science and Technology,China); Xueming Liu(Southeast Univ.,China)

C-048

Switchable and Tunable Dual-Wavelength Erbium-Doped Fiber Laser Based on Nonlinear Polarization Rotation
Wang Zi(Chizhou Univ.,China); Zou Yang-En, Pamukti Brian, Pradipta Muhammad Fajar Faliasthiunus and Liaw Shien-Kuei(Taiwan Univ. of Science and Technology,Taiwan, China); Xu Ye-Jun(Chizhou Univ.,China)

C-049

Dual-wavelength broadband generation in a GHz fiber cascaded PCM-GMNA system
Rong Xu and Ruoao Yang(Peking Univ.,China); Yizhou Liu(Shandong Univ.,China); Zhigang Zhang and Aimin Wang(Peking Univ.,China)

C-050

High-power G-band MUTC Photodiode Module for RoF Applications
Yuxin Tian,Guizhen Wang,Lei Cao,CHangzheng Sun, Zhibiao Hao, Jian Wang, Lai Wang, Yanjun Han, Hongtao Li, Lin Gan, Yi Luo and Bing Xiong(Tsinghua Univ.,China)

C-051

Reconfigurable Logic of Multidimensional Encryption Based on $ReSe_2$ Homojunction Photodetector
Liang Liu and Xuetao Gan (Northwestern Polytechnical Univ., China)

C-052

SiNx waveguide-integrated carbon nanotube photodetector with bandwidth over 67 GHz operating at 1.55 μm and 2 μm band
Haoyu Zhang and Sheng Wang(Peking Univ.,China)

C-053

Effect of H_3PO_4/H_2O_2 Ratio on Wet-Etched InAs/GaSb Detector Performance
Haoxuan Fan, Weiqiang Chen, lidan lu, Yuhao Chen and lianqing zhu(Beijing Information Science and Technology Univ.,China)

C-054

BP/Bi2Te3 Based High-Responsivity Broadband Infrared Photodetector
zhimeng li(Beijing Information Science and Technology Univ.,China)

C-055

Bipolar Resistive Switching Behavior and Photoresponse of PEDOT:NiTsPc Devices
Ji-En Wu and Pin-Hsiang Huang(Tsing Hua Univ. in Hsinchu,Taiwan,China; Institute of Photonics Technologies,Taiwan,China); Wei-Tsung Chuang and Phok-Jin Yang(Synchrotron Radiation Research Center,Taiwan,China); Yu-Chueh Hung(Tsing Hua Univ. in Hsinchu, Taiwan,China ; Institute of Photonics Technologies,Taiwan,China)

C-056

A High Bandwidth and Modulation Efficiency Si Microring Modulator based on U-shaped PN Junction
Jiang Shuo, Qin Jun, Shi Jie, Sun Yu, Lu Junde, Shi Jianyu, Zheng Jiaxin, Yang Yang and Zhang Chi (Beijing Information Science and Technology Univ.,China; Bejing Information Science and Technology Univ., China)

C-057

Extended-Range Self-Injection-Locked Narrow-Linewidth Laser Enabled by Adjacent Modes
Zunhao Hu, Wenqi Shi, Yongzhen Huang, Youling Chen, Yuede Yang, Jinlong Xiao and Jinglong Xiao (Institute of Semiconductors, Chinese Academy of Sciences,China; Univ. of Chinese Academy of Sciences, China)

C-058

Narrow-Linewidth and Low-Noise InP-Based Coupled-Cavity Laser
Xiang Li, Zhong Dong, Jinlong Xiao, Youling Chen, Yongzhen Huang and Yuede Yang(Institute of Semiconductors, Chinese Academy of Sciences,China; Univ. of Chinese Academy of Sciences, China)

C-059

Broadband Phase-enhanced Meta-LCoS Device with High-efficiency Liquid-crystal Alignment
Li Jiaqi, Lu Junhao, Zhou Zijie, Peng Junwei, Wen Yuanhui and Chen Yujie(Sun Yat-sen Univ., China)

C-060

Narrow-Linewidth High-OSNR Single-Longitudinal-Mode Erbium-Doped Fiber Laser Based on a Four-Coupler Dual-Ring Cavity
Zhijun Shang, Xiaoyu Zhang, Bin Luo, Jianming Shang and Song Yu(Beijing Univ. of Posts and Telecommunications,China)

C-061

Electrically injected GaN-based ultraviolet VCSELs lasing at 380.1 nm
Zhi-Jie Zou, Yu-Kun Wang, Yang Mei, Li-Long Ma and Lei-Ying Ying(Xiamen Univ.,China); Bao-Ping Zhang (Southern Univ. of Science and Technology (SUSTech),China; Xiamen Univ.,China; Institute of Nanoscience and Applications (INA),China)

C-062

Green VCSELs Fabricated by GaN Grown on Si
Yubing Xia, Lilong Ma and Yang Mei(Xiamen Univ.,China)

C-063

Narrow-Linewidth Nanosecond Pulsed Fiber Laser Based on a 40/250 μm Yb-Doped Fiber
Dan Cheng and Kun zhang(No. 11th research institute of China Electronics Technology Group Corporation,China)

C-064

Optimization of an NPR-Based Mode-Locked Fiber Laser Cavity Using Two-Waveplates
Sejun Oh, Seongsu Kim, Duyeon Kim and Hyun Su Kim(Chosun Univ.,Korea)

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Anton Gritchenko(Institute of Spectroscopy of the Russian Academy of Sciences,Russia); Arina Safonova and Mikhail Markov(Higher School of Economics, National Research Univ., Russia; Institute of Spectroscopy of the Russian Academy of Sciences,Russia); Alexey Kalmykov(Institute of Spectroscopy of the Russian Academy of Sciences,Russia); Nina Dzhanaeva, Viktor Balykin and Pavel Melentiev(Higher School of Economics, National Research Univ., Russia; Institute of Spectroscopy of the Russian Academy of Sciences,Russia)

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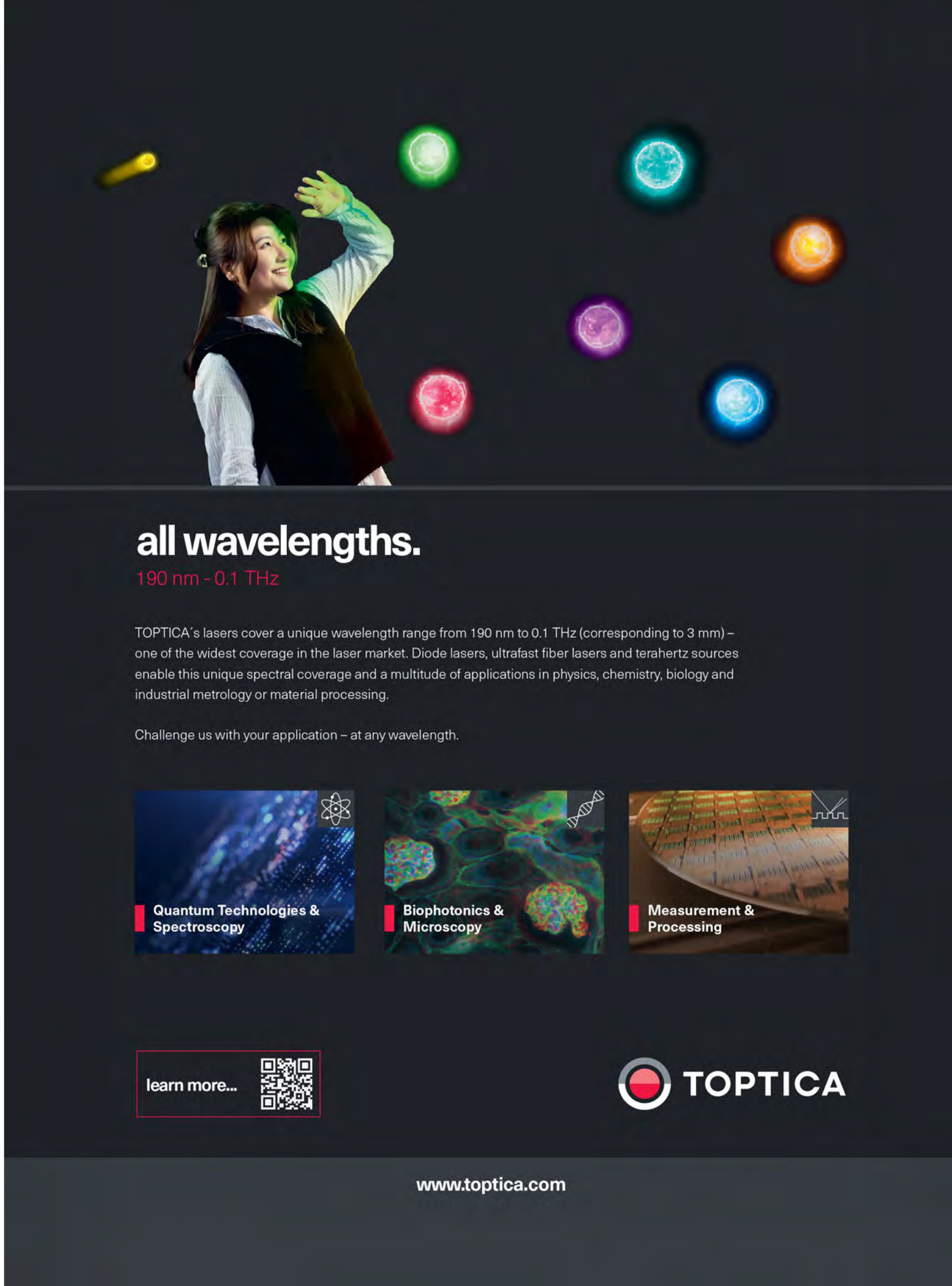
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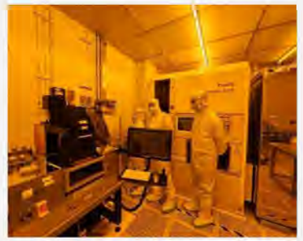
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