



華東師範大學
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華東師範大學重慶研究院
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USQS2026



華東師範大學
海南研究院

海洋精密光學儀器研發中心
INSTITUTE OF PRECISION OPTICAL EQUIPMENT FOR MARINE SURVEYS

The 3rd International Conference on Ultrafast Science and Quantum Sensing

January 26-30, 2026

Yazhou Bay Science and Technology City, Hainan, China

Organizers:

East China Normal University | Peking University | Chongqing Institute of East China Normal University
Sanya Yazhou Bay Science and Technology City Administration Bureau

About the conference

The 3rd International Conference on Ultrafast Science and Quantum Sensing (USQS 2026) was held from January 26 to 30, 2026, at the Innovation, Research and Education Valley, Yazhou Bay Science and Technology City, Sanya, Hainan Province, China. The conference was jointly organized by East China Normal University, Peking University, Chongqing Institute of East China Normal University, and the Administrative Bureau of Yazhou Bay Science and Technology City, and co-organized by the Hainan Institute of East China Normal University, Chongqing Institute of East China Normal University, the Institute of Precision Optical Equipment for marine surveys, and Hainan Langyan Optoelectronics Co., Ltd.

USQS 2026 aimed to integrate cutting-edge advances in optical technologies with the distinctive industries of Hainan Province, promoting regional optical industrialization while inspiring innovative ideas for marine environmental protection and sustainable resource development. The conference was dedicated to fostering global collaboration among researchers and advancing the fields of ultrafast optics and quantum sensing, together with their applications in physics, photonics, biology, environmental science, and manufacturing.

The scientific program covered a wide range of topics, including ultrafast optics and technologies; ultrafast laser technology and equipment; fiber lasers and intelligent control; ultrafast laser-based intelligent manufacturing; optical frequency combs and applications; atomic and molecular spectroscopy; quantum metrology and instrumentation; spectral sensing and applications; terahertz photonics; biomedical photonics; single-photon detection and imaging; infrared photonics; integrated photonics and AI applications; optical field manipulation and applications; as well as topological and non-Hermitian photonics.

USQS 2026 provided an ideal platform for scholars and researchers from around the world to share new ideas and exchange recent research achievements. The conference facilitated in-depth discussions and strengthened international cooperation in the rapidly evolving fields of ultrafast science and quantum technologies, contributing to a vibrant and inspiring academic exchange in Sanya, China.

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Committee

The 3rd International Conference
on Ultrafast Science and Quantum Sensing

Organisers

East China Normal University(ECNU)
Peking University
Chongqing Institute of East China Normal University
The Administrative Bureau of Sanya Yazhou Bay Science & Technology City

Co-Organisers

Hainan Institute of East China Normal University
Institute of Precision Optical Equipment for Marine Surveys (POEMS)
Hainan Langyan Optoelectronics Co., Ltd.

Supporting Organization

Sanya Association for Science and Technology

Committee

Conference Presidents



Ruxin Li
ShanghaiTech
University



Andrius Baltuška
Technische Universität
Wien



Heping Zeng
East China Normal
University

Honorary Chairpersons



Qihuang Gong
Peking University



Jianwei Pan
University of Science
and Technology of
China



Yanming Ma
Zhejiang University



Qingming Luo
Hainan University



Shining Zhu
Nanjing University



Junhao Chu
Shanghai Institute of
Technical Physics,
CAS



Chaohui Ye
Innovation Academy
for Precision Measurement
Science and Technology,
CAS

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Ming Yan, East China Normal University
Junsong Peng, East China Normal University
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Chengbo Mou, Shanghai University

Conveners of Quantum Technology

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Chuanliang Li, Taiyuan University of Science and Technology
Guang Wu, East China Normal University
Weiguang Ma, Shanxi University

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Ling Fu, Hainan University
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Shumin Xiao, Harbin Institute of Technology(Shenzhen)
Dawei Wang, Zhejiang University
Lei Shi, Fudan University
Ze Zhang, Aerospace Information Research Institute, CAS
Mengyun Hu, East China Normal University

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Liping Shi, Xidian University
Shuai Yuan, University of Shanghai for Science and Technology
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Shupeng Xu, East China Normal University
Yu Xia, East China Normal University
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Zhaoyang Wen, East China Normal University
Jianan Fang, East China Normal University
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Xiuqi Wu, East China Normal University
Wei Qiao, East China Normal University
Ping Zhou, Chongqing Institute of East China Normal University
Li Xiong, Chongqing Institute of East China Normal University
Chaoran Lu, Chongqing Institute of East China Normal University
Yilong Wang, East China Normal University
Ting Hu, Institute of East China Normal University

Session 1: Ultrafast Strong-Field Laser Science and Technology

Chairpersons

Peixiang Lu, Huazhong University of Science and Technology
Dajun Ding, Jilin University
Yutong Li, Institute of Physics, CAS
Jianxing Li, Xi'an Jiaotong University
Weimin Zhou, Laser Fusion Research Center, China Academy of Engineering Physics

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Feng He, Shanghai Jiao Tong University
Yuhai Jiang, ShanghaiTech University
Yi Liu, University of Shanghai for Science and Technology
Yuxin Leng, Shanghai Institute of Optics and Fine Mechanics, CAS
Kuanshou Zhang, Shanxi University
Hongbo Zhou, Beijing University of Aeronautics and Astronautics
Zengxiu Zhao, National University of Defense Technology
Jing Zhang, Hangzhou Institute of Optics and Precision Mechanics

Session 2: Ultrafast Laser Technology and Devices

Chairpersons

Zhongwei Fan, University of Chinese Academy of Sciences
Zhanshan Wang, Tongji University
Zhiwei Lv, Hebei University of Technology
Zhiyi Wei, Institute of Physics, CAS
Shih-Chi Chen, The Chinese University of Hong Kong

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Shangqing Gong, East China University of Science and Technology
Chunyu Guo, Shenzhen University
Minglie Hu, Tianjin University
Can Li, National University of Defense Technology
Wenhao Li, Changchun Institute of Optics, Fine Mechanics and Physics, CAS

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Zhiyuan Li, South China University of Technology
Qiang Lin, Zhejiang University of Technology
Weitao Liu, Fudan University
Qiang Liu, Tsinghua University
Zhengqian Luo, Xiamen University
Zhichao Luo, South China Normal University
Jingui Ma, Shanghai Jiao Tong University
Chengbo Mou, Shanghai University
Liejia Qian, Shanghai Jiao Tong University
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Liangbi Su, Shanghai Institute of Ceramics, CAS
Tingyun Wang, Shanghai University
Yuncai Wang, Guangdong University of Technology
Changfeng Wu, Southern University of Science and Technology
Tengfei Wu, Beijing Changcheng Institute of Metrology and Measurement
Lei Xi, Southern University of Science and Technology
Haohai Yu, Shandong University
Qinghong Yuan, East China Normal University
Tieli Zhang, Beijing Institute of Aerospace Measurement and Testing
Wenkai Zhang, Beijing Normal University
Yanyan Zhang, Northwestern Polytechnical University
Tao Zhu, Chongqing University

Session 3: Fiber Lasers and Intelligent Control

Chairpersons

Wei Zhao, Xi'an Institute of Optics and Precision Mechanics, CAS
Shuangchen Ruan, Shenzhen Technology University
Pu Wang, Beijing University of Technology
Lilin Yi, Shanghai Jiao Tong University
Xueming Liu, Southeast University
Fei Xu, Nanjing University

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Bowen Li, University of Electronic Science and Technology of China
Xingliang Li, Hebei Normal University
Jun Liu, Shenzhen University
Wenjun Liu, Beijing University of Posts and Telecommunications
Chao Lv, Sun Yat-sen University
Yiyang Luo, Chongqing University
Dong Mao, Northwestern Polytechnical University
Meng Pang, Shanghai Institute of Optics and Fine Mechanics, CAS
Xuewen Shu, Huazhong University of Science and Technology
Qinghai Song, Harbin Institute of Technology
Dingyuan Tang, Shenzhen Technology University
Long Tian, Shanxi University
Sha Wang, Sichuan University
Yingying Wang, Jinan University
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Yulei Wang, Hebei University of Technology
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Yuanfei Zhang, Southeast University
Junqing Zhao, Shenzhen Technology University
Luming Zhao, Huazhong University of Science and Technology
Yaohui Zheng, Shanxi University
Pu Zhou, National University of Defense Technology
Jiangfeng Zhu, Xidian University

Session 4: Ultrafast Laser Intelligent Manufacturing

Chairpersons

Hongbo Sun, Tsinghua University
Jianrong Qiu, Zhejiang University
Xuesong Mei, Xi'an Jiaotong University
Feng Chen, Shandong University
Lin Li, University of CAS Ningbo Institute of Materials Engineering
Feng Chen, Xi'an Jiaotong University

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Bing Han, Shanghai Jiao Tong University
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Xin Li, Beijing Institute of Technology
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Changrui Liao, Shenzhen University
Linhan Lin, Tsinghua University
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Xueqing Liu, Jilin University
Jiangyou Long, Guangdong University of Technology
Aifei Pan, Xi'an Jiaotong University
Qifeng Ruan, Harbin Institute of Technology, Shenzhen
Liping Shi, Xidian University Hangzhou Research Institute
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Lei Wang, Jilin University
Yiping Wang, Shenzhen University
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Yonglai Zhang, Jilin University
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Meiling Zheng, Technical Institute of Physics and Chemistry, CAS
Shifeng Zhou, South China University of Technology

Session 5: Optical Frequency Combs and Their Applications

Chairpersons

Zhongmin Yang, South China Normal University
Shougang Zhang, National Time Service Center, CAS
Shuiming Hu, University of Science and Technology of China
Yunfeng Xiao, Peking University
Wei Ren, The Chinese University of Hong Kong

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Baicheng Yao, University of Electronic Science and Technology of China
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Zheng Zheng, Beihang University

Session 6: Atomic and Molecular Precision Spectroscopy

Chairpersons

Li You, Tsinghua University
Tiancai Zhang, Shanxi University
Yufang Liu, Henan Normal University
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Jianmin Yuan, China Academy of Engineering Physics
Zhenxiang Zhong, Hainan University
Qi Zhang, Hainan University
Zhangkai Zhou, Sun Yat-sen University
Hongxin Zou, National University of Defense Technology

Session 7: Quantum Precision Measurement and Devices

Chairpersons

Jing Zhang, Shanxi University
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Rong Shu, Innovation Academy for Microsatellites, CAS
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Guoyong Xiang, University of Science and Technology of China

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Bin Luo, Beijing University of Posts and Telecommunications
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Shuang Wang, University of Science and Technology of China
Haibin Wu, East China Normal University
Xiangheng Xiao, Wuhan University
Linjie Zhang, Shanxi University
Shouzhu Zhang, Southern University of Science and Technology
Minkang Zhou, Huazhong University of Science and Technology

Session 8: Spectral Remote Sensing and Its Applications

Chairpersons

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Ruifeng Kan, Hefei Institutes of Physical Science, CAS
Baojun Li, Jinan University
Junle Qu, Shenzhen University

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Long Jin, Jinan University
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Luning Li, Shanghai Institute of Technical Physics, CAS
Liang Mei, Dalian University of Technology
Zenghui Wang, University of Electronic Science and Technology of China
Zhe Wang, Tsinghua University
Jun Yang, Guangdong University of Technology

Session 9: Terahertz Science and Technology

Chairpersons

Jian Chen, Nanjing University
Zhiming Huang, Shanghai Institute of Technical Physics, CAS
Hua Li, Shanghai Institute of Microsystem and Information Technology, CAS
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Jierong Cheng, Nankai University
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Jiaguang Han, Guilin University of Electronic Technology
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Guohong Ma, Shanghai University
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Wei Miao, Purple Mountain Observatory, CAS
Hua Qin, National Center for Nanoscience and Technology
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Xianbin Yu, Zhejiang University
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Cunlin Zhang, Capital Normal University
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Jian Zhang, University of Electronic Science and Technology of China
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Yan Zhang, Capital Normal University
Guozhong Zhao, Capital Normal University
Weisheng Zhao, Beihang University
Ziran Zhao, Tsinghua University
Xiaoping Zheng, Tsinghua University
Liguo Zhu, China Academy of Engineering Physics
Yiming Zhu, University of Shanghai for Science and Technology
Ya Zhang, Tokyo University of Agriculture and Technology

Session 10: Biomedical Photonics

Chairpersons

Jie Tian, Beihang University
Buhong Li, Hainan University
Liwei Liu, Shenzhen University
Yan Peng, University of Shanghai for Science and Technology

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Liqing Ren, Yulin College
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Sihua Yang, South China Normal University
Jian Ye, Shanghai Jiao Tong University
Qinrong Zhang, City University of Hong Kong
Li Zhao, Military Research Institute
Weisong Zhao, Harbin Institute of Technology
Changfeng Zhu, Xiamen University

Session 11: Photon Detection and Imaging

Chairpersons

Liantuan Xiao, Taiyuan University of Technology
Zhiliang Yuan, Beijing Academy of Quantum Information Sciences
Baosen Shi, University of Science and Technology of China
Lixing You, Shanghai Institute of Microsystem and Information Technology, CAS

Qun Hao, Changchun University of Science and Technology

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Xiaojun Jia, Shanxi University
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Yuan Zhao, Harbin Institute of Technology
Jun Zhou, Ningbo University
Qiang Zhou, University of Electronic Science and Technology of China
Zhiyuan Zhou, University of Science and Technology of China
Chao Zuo, Nanjing University of Science and Technology

Session 12: Infrared Photonics and Devices

Chairpersons

Wei Lu, Shanghai Institute of Technical Physics, CAS
Qian Chen, North University of China
Zhichuan Niu, Institute of Semiconductors, CAS
Yong Liu, University of Electronic Science and Technology of China
Jianlu Wang, Fudan University
Jianpu Wang, Nantong University

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Shixun Dai, Ningbo University
Xiao Fu, Shanghai Institute of Technical Physics

Hairun Guo, Shanghai University
Xiaopeng Hao, Tsinghua University
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Zhijun Ning, ShanghaiTech University
Jun Qiu, Beijing Information Science and Technology University
Feng Shi, North Night Vision Technology Co., Ltd
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Xin Tang, Minzu University of China
Fang Wang, Shanghai Institute of Technical Physics
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Lili Wang, Institute of Semiconductors, CAS
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Pengfei Wang, Northeast Normal University
Wei Wei, Chongqing University
Guangjian Wu, Fudan University
Faxian Xiu, Fudan University
Libin Yao, Kunming Institute of Physics
Lei Ye, Huazhong University of Science and Technology
Yu Yu, Huazhong University of Science and Technology
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Bin Zhang, Sun Yat-sen University
Long Zhang, Shanghai Institute of Optics and Fine Mechanics, CAS
Yong Zhang, Nanjing University
Jun Zhao, Kunming Institute of Physics
Qiang Zhao, Nanjing University of Posts and Telecommunications
Yingfeng Zhu, Kunming Institute of Physics
Yi Zou, ShanghaiTech University

Session 13: Optical Field Manipulation and Its Applications

Chairpersons

Jianlin Zhao, Northwestern Polytechnical University
Xuehua Wang, Sun Yat-sen University
Yangjian Cai, Shandong Normal University
Qiwen Zhan, University of Shanghai for Science and Technology
Shuqi Chen, Nankai University
Qionghua Wang, Beihang University
Yanqing Lu, Nanjing University

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Gang Chen, Chongqing University
Lixiang Chen, Xiamen University
Jianwen Dong, Sun Yat-sen University
Shenhe Fu, Jinan University
Chunqing Gao, Beijing Institute of Technology
Wei Hu, Nanjing University
Lingling Huang, Beijing Institute of Technology
Peng Li, Northwestern Polytechnical University
Xinzhong Li, Henan University of Science and Technology

Bo Liu, Nanjing University of Information Science & Technology
Mengxin Ren, Nankai University
Wenjie Wan, Shanghai Jiao Tong University
Shuming Wang, Nanjing University
Xiaobing Wang, Nanjing University
Shuangchun Wen, Hunan University
Ting Xu, Nanjing University
Yuanjie Yang, University of Electronic Science and Technology of China
Douguo Zhang, University of Science and Technology of China
Pei Zhang, Xi'an Jiaotong University
Yuanlin Zheng, Shanghai Jiao Tong University

Session 14: Integrated Photonics and Photonic Computing

Chairpersons
Xinliang Zhang, Huazhong University of Science and Technology
Chaohui Li, Sun Yat-sen University
Ming Li, Institute of Semiconductors, CAS
Li Pei, Beijing Jiaotong University
Daoxin Dai, Zhejiang University
Xianfeng Chen, Shanghai Jiao Tong University

Committee Members

Haiwen Cai, Shanghai Institute of Optics and Fine Mechanics, CAS
Xinlun Cai, Sun Yat-sen University
Genxiang Chen, Minzu University of China
Hongwei Chen, Tsinghua University
Tao Chu, Zhejiang University
Wei Chu, ShanghaiTech University
Jianji Dong, Huazhong University of Science and Technology
Jiangbing Du, Shanghai Jiao Tong University
Jijun Feng, University of Shanghai for Science and Technology
Weihua Guo, Huazhong University of Science and Technology
Xiuyou Han, Dalian University of Technology
Jinping He, Nanjing Institute of Astronomy and Optics Technology, CAS
Xiaoshun Jiang, Nanjing University
Lan Li, Westlake University
Guowei Lv, Kyushu University
Lirong Qiu, Beijing Institute of Technology
Xifeng Ren, University of Science and Technology of China
Lei Shi, Huazhong University of Science and Technology
Wei Shi, Laval University
Yaocheng Shi, Zhejiang University
Yikai Su, Shanghai Jiao Tong University
Yating Wan, King Abdulaziz University
Cheng Wang, ShanghaiTech University
Jianwei Wang, Peking University
Jun Wang, Shanghai Institute of Optics and Fine Mechanics, CAS
Xingjun Wang, Peking University
Fang Wei, Shanghai Institute of Optics and Fine Mechanics, CAS
Shuiying Xiang, Xidian University
Xiangjun Xin, Beijing Institute of Technology
Fengping Yan, Beijing Jiaotong University
Anning Zhang, Beijing Institute of Technology
Dawei Zhang, University of Shanghai for Science and Technology
Jiaxiang Zhang, Shanghai Institute of Microsystem and Information Technology, CAS
Linjie Zhou, Shanghai Jiao Tong University
Weiwen Zou, Shanghai Jiao Tong University
Xihua Zou, Southwest Jiaotong University

Session 15: Topological Photonics and Non-Hermitian Optics

Chairpersons

Jian Zi, Fudan University
Jingjun Xu, Nankai University
Zhiqiang Chen, Nankai University
Xiaocong Yuan, Shenzhen University
Ling Lu, Institute of Physics, CAS
Hui Liu, Nanjing University

Committee Members

Xiaodong Chen, Sun Yat-sen University
Kun Ding, Fudan University
Qinghua Guo, Hunan University
Dezhuan Han, Chongqing University
Lujun Huang, East China Normal University
Jianhua Jiang, Soochow University
Lin Li, East China Normal University
Yongchun Liu, Tsinghua University
Minghui Lu, Nanjing University
Cuicui Lu, Beijing Institute of Technology
Yiming Pan, ShanghaiTech University
Weihua Wang, China University of Mining and Technology
Shiqi Xia, Nankai University
Ke Xu, Suzhou Institute of Nano-Tech and Nano-Bionics, CAS
Biao Yang, National University of Defense Technology
Xiang Yuan, East China Normal University
Xulin Zhang, Jilin University
Xiaolong Zhu, East China Normal University

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The 3rd International Conference
on Ultrafast Science and Quantum Sensing

Information to Participants

Conference Venue

Innovative Research and Education Valley, Yazhou Bay Science and Technology City, Sanya, Hainan Province, China

Registration

Location:

- i. Curio Collection by Hilton, Sanya Yazhou Bay Resort;
 - ii. Citadines Sanya Yazhou Bay;
 - iii. Crowne Plaza Sanya Yazhou Bay
- 09:00-20:00, 26 January

Location:

Foyer of Meeting Room 1
09:00-20:00, 27-30 January

Onsite Speaker Preparation:

- Plenary Talk: 20-30 minutes, including Q & A.
- Keynote Talk: 15-20 minutes, including Q&A.
- Invited Talk: 15 minutes, including Q & A.
- Oral Presentation: 10 minutes, including Q & A.

Presenters are required to be in the session room at least 30 minutes prior to their scheduled talk to upload and check their presentation slides. The conference will provide HDMI and USB-C adapters for speakers. You can use a USB flash drive to transfer the slides to the venue computer or use your own computer.

Onsite Poster Preparation

Recommended Poster Size: 1.2m (Width) * 0.9m (Height)
Poster Session: 09:00-20:00, 27-30 January

There is a fixed template for Poster, which you can download from the conference website. Presenters should put up their poster before the poster session starts and be encouraged to stand by their poster during poster session to answer questions and further discuss their work with attendees.

Each abstract is assigned a number based on the alphabetical order of the presenter's name. It is recommended to display the posters throughout the conference until its conclusion. Posters not removed by the specified dismantling time will be uniformly removed and recycled by the staff.

Excellent Poster Award

Outstanding posters will receive the Excellent Poster Award, recognizing exceptional presentation during the conference. The Poster Evaluation Committee will assess all posters based on design, content, and clarity of presentation (both visual and verbal).

Eligibility:

- Be a graduate student or postdoctoral researcher.
- Attend the entire conference.
- Present a poster at the conference.

Exhibition

The USQS 2026 Exhibition is open to all attendees.

Coffee Breaks

Morning:

10:15-10:30 Tuesday, 27 January
10:20-10:40 Wednesday, 28 January
10:40-11:00 Thursday, 29 January

Afternoon:

15:30-15:50 Tuesday, 27 January
15:30-15:50 Wednesday, 28 January
15:30-15:50 Thursday, 29 January

Lunches

Location: Haiyun Dining Hall 海韵餐厅 2F
12:00-13:00 Tuesday, 27 January
12:00-13:00 Wednesday, 28 January
12:00-13:00 Thursday, 29 January

Banquets

Location: Hilton Hotel Yazhou Grand Ballroom 希尔顿酒店崖州宴会厅
Time: 18:00-20:00 Tuesday, 27 January

Location: Hilton Hotel Lawn 希尔顿酒店草坪
Time: 18:00-20:00 Wednesday, 28 January

Dinner

Location: Haiyun Dining Hall 海韵餐厅 2F
18:00-19:00 Thursday, 29 January

Hotels

Conference Hotel Booking Contact:

Miss Ting Hu Mobile: 18876080914 Email: hoott8@163.com

Hotel 1: Curio Collection by Hilton, Sanya Yazhou Bay Resort
Address: Creative Industry Park, Sanya, Hainan, China

Hotel 2: Citadines Sanya Yazhou Bay
Address: No.9 Chuangyi Road, Sanya, Hainan, China

Hotel 3: Crowne Plaza Sanya Yazhou Bay
Address: No. 1 Xindao Street Yazhou Bay District Sanya, Hainan, China

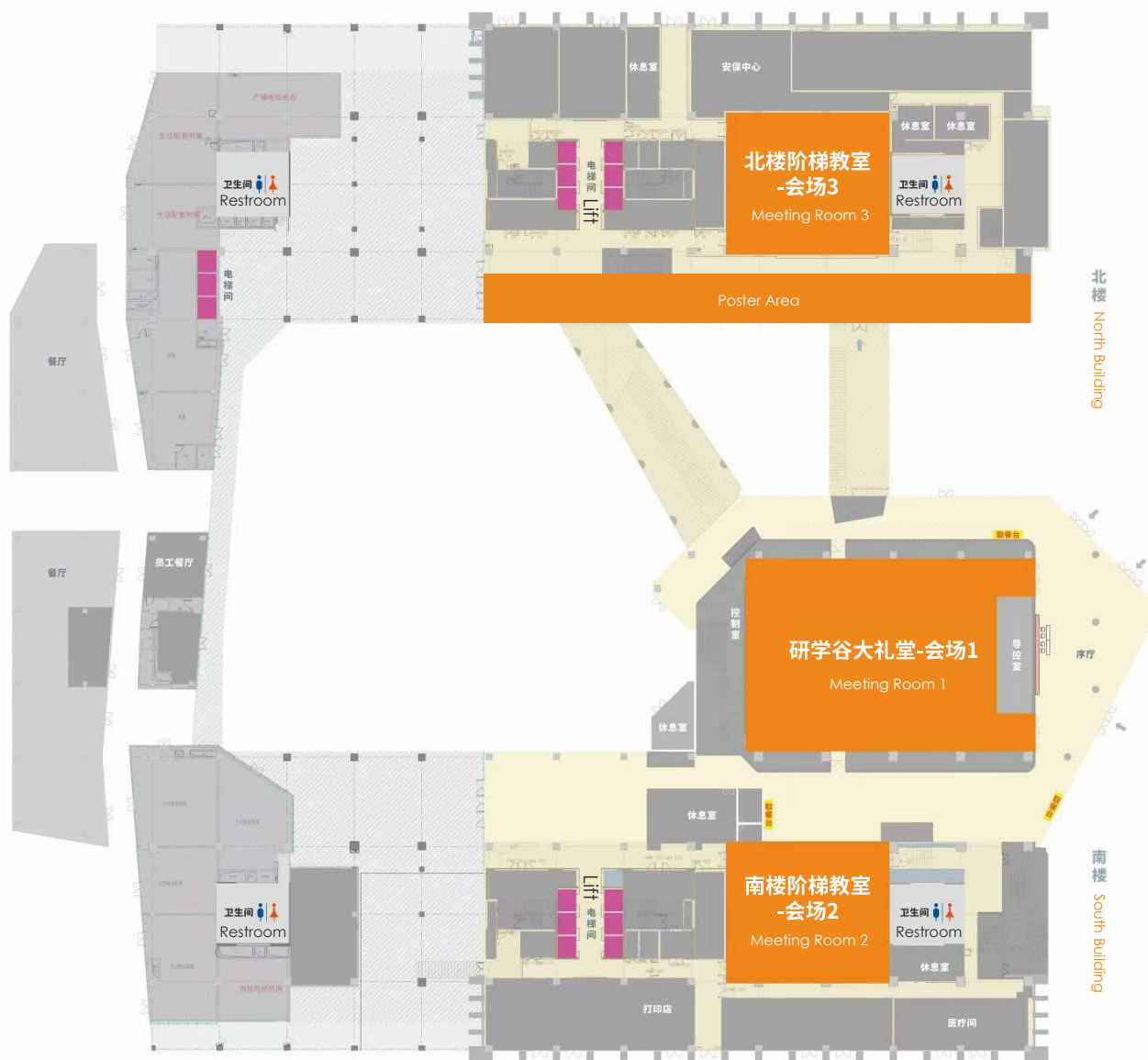
Note

Volunteers and staff will wear red slings. If you have any questions, you can ask them for help or go to the conference registration table for consultation.

Conference Map

The 3rd International Conference
on Ultrafast Science and Quantum Sensing

Conference Map-1F



January 27

Meeting Room 1

Plenary Talks

Plenary Talks (Ultrafast Science)

Meeting Room 2

Plenary Talks (Quantum Sensing)

Meeting Room 3

Plenary Talks (Infrared/THz/Bio Photonics)

January 29

Meeting Room 1

Session 2: Ultrafast Laser Technology and Devices

Meeting Room 2

Session 3: Fiber Lasers and Intelligent Control

Meeting Room 3

Session 9: Terahertz Science and Technology

January 28

Meeting Room 1

Plenary Talks (Ultrafast Science)

Meeting Room 2

Plenary Talks (Quantum Sensing)

Session 3: Fiber Lasers and Intelligent Control

Meeting Room 3

Plenary Talks (Ultrafast Science)

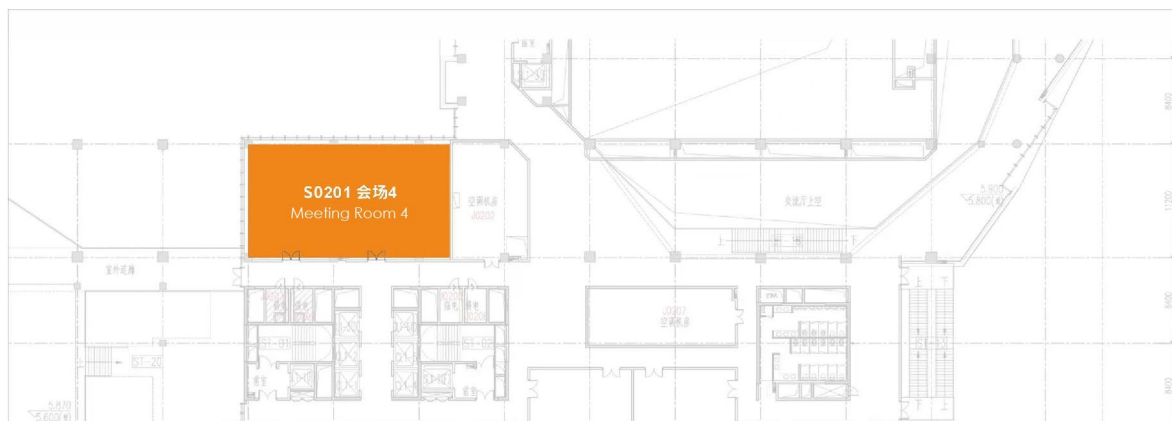
Plenary Talks (Infrared/THz/Bio Photonics)

Session 8: Spectral Remote Sensing and Its Applications

Session 10: Biomedical Photonics

Conference Map-2F

South Building



January 27

Meeting Room 4

Plenary Talks (Optical Field Manipulation & Intelligent Photonics)

January 29

Meeting Room 4

Session 6: Atomic and Molecular Precision Spectroscopy

January 28

Meeting Room 4

Plenary Talks (Optical Field Manipulation & Intelligent Photonics)
Session 4: Ultrafast Laser Intelligent Manufacturing

Conference Map-5F

South Building



January 28

Meeting Room 5

Session 5: Optical Frequency Combs and Their Applications

Meeting Room 6

Session 15: Topological Photonics and Non-Hermitian Optics

Meeting Room 7

Session 13: Optical Field Manipulation and Its Applications

Meeting Room 8

Session 14: Integrated Photonics and Photonic Computing

Meeting Room 9

Session 7: Quantum Precision Measurement and Devices

January 29

Meeting Room 5

Session 11: Photon Detection and Imaging

Meeting Room 6

Session 1: Ultrafast Strong-Field Laser Science and Technology

Session 12: Infrared Photonics and Devices

Meeting Room 7

Session 13: Optical Field Manipulation and Its Applications

Meeting Room 9

Session 7: Quantum Precision Measurement and Devices

General Program & Agenda

The 3rd International Conference
on Ultrafast Science and Quantum Sensing

General Program

Activities	Monday Jan. 26	Tuesday Jan. 27	Wednesday Jan. 28	Thursday Jan. 29	Friday Jan. 30	Location
Registration 1	09:00-20:00					Designated Hotels
Registration 2		09:00-20:00	09:00-20:00	09:00-20:00	09:00-20:00	Foyer of Meeting Room 1
Opening Ceremony		09:00-09:15				Meeting Room 1
Plenary Talks		09:15-12:00				Meeting Room 1
Plenary Talks (Ultrafast Science)		13:30-17:50	09:00-12:00			Meeting Room 1 & 3
Plenary Talks (Quantum Sensing)		13:30-17:50	09:00-11:40			Meeting Room 2
Plenary Talks (Infrared/THz/Bio Photonics)		13:30-17:50	09:00-10:20			Meeting Room 3
Plenary Talks (Optical Field Manipulation & Intelligent Photonics)		13:30-17:50	09:00-12:00			Meeting Room 4
Session Talks			13:00-18:00	09:00-18:00		1F & 2F & 5F
Poster Session Open Discussion		09:00-20:00	09:00-20:00	09:00-20:00	09:00-20:00	1F, North Building
Banquets		18:00-20:00	18:00-20:00			Hilton Hotel

Activities	Wednesday Jan. 28	Thursday Jan. 29	Location
Session 1: Ultrafast Strong-Field Laser Science and Technology		09:00-12:45	Meeting Room 6
Session 2: Ultrafast Laser Technology and Devices	13:00-18:00	09:00-10:10	Meeting Room 1
Session 3: Fiber Lasers and Intelligent Control	13:30-17:55	09:00-11:45	Meeting Room 2
Session 4: Ultrafast Laser Intelligent Manufacturing	13:00-18:10		Meeting Room 4
Session 5: Optical Frequency Combs and Their Applications	13:30-18:20		Meeting Room 5
Session 6: Atomic and Molecular Precision Spectroscopy		09:00-17:55	Meeting Room 4
Session 7: Quantum Precision Measurement and Devices	13:30-17:50	09:00-14:45	Meeting Room 9
Session 8: Spectral Remote Sensing and Its Applications	13:20-15:30		Meeting Room 3
Session 9: Terahertz Science and Technology		09:00-16:50	Meeting Room 3
Session 10: Biomedical Photonics	15:50-18:00		Meeting Room 3
Session 11: Photon Detection and Imaging		09:00-14:35	Meeting Room 5
Session 12: Infrared Photonics and Devices		13:30-16:55	Meeting Room 6
Session 13: Optical Field Manipulation and Its Applications	13:30-18:10	09:00-12:30	Meeting Room 7
Session 14: Integrated Photonics and Photonic Computing	13:30-17:35		Meeting Room 8
Session 15: Topological Photonics and Non-Hermitian Optics	13:30-18:20		Meeting Room 6

Plenary Sessions

2026.1.27				
Time	Speaker	Affiliation	Title	Type
9:00-9:15	Opening Ceremony Meeting Room 1			
Chair: Kuijuan Jin 金奎娟 Institute of Physics, CAS 中国科学院物理研究所				
9:15-9:45	Jianwei Wang 王剑威	Peking University 北京大学	Integration and Scaling of Quantum Photonic Circuits	Plenary talk
9:45-10:15	Wentao Wang 王文涛	Shanghai Institute of Optics and Fine Mechanics, CAS 中国科学院上海光学精密机械研究所	Laser driven electron accelerators and radiation sources at SIOM	Plenary talk
10:15-10:30	Coffee Break			
Chair: Andrius Baltuška Vienna University of Technology 维也纳技术大学				
10:30-11:00	Yu-Ao Chen 陈宇翱	University of Science and Technology of China 中国科学技术大学	Quantum Manipulation of ultra-cold atoms	Plenary talk
11:00-11:30	Peng Zhou 周鹏	Fudan University 复旦大学	Electronic Devices and System Integration in the Post-Moore Era	Plenary talk
11:30-12:00	Lingjie Du 杜灵杰	Nanjing University 南京大学	Observation of emergent gravitons with chirality in quantum liquids	Plenary talk
12:00-13:30	Lunch			

2026.1.27

Plenary Talks (Ultrafast Science) Meeting Room 1

Chair: Guoxuan Dong 董国轩
Beijing Normal University 北京师范大学

Time	Speaker	Affiliation	Title	Type
13:30-13:50	Yutong Li 李玉同	Institute of Physics, CAS 中国科学院物理研究所	Generation and applications of strong terahertz radiation driven by high-intensity laser pulses	Plenary talk
13:50-14:10	Zhengming Sheng 盛政明	Shanghai Jiao Tong University 上海交通大学	High-field terahertz pulses with tunable spectra and structures from relativistic laser plasma	Plenary talk
14:10-14:30	Zengxiu Zhao 赵增秀	National University of Defense Technology 国防科技大学	Quantum coherence and emission of ions in strong laser fields	Plenary talk
14:30-14:50	Huailiang Xu 徐淮良	Xidian University / Jilin University 西安电子科技大学 / 吉林大学	Laser ignition of fuels by femtosecond pulses	Plenary talk
14:50-15:10	Zhiyi Wei 魏志义	Institute of Physics, CAS 中国科学院物理研究所	HHG toward soft X-ray attosecond pulse and XUV frequency comb	Plenary talk
15:10-15:30	Yongkang Dong 董永康	Harbin Institute of Technology 哈尔滨工业大学	High-performance distributed optical fiber sensor	Plenary talk
15:30-15:50	Coffee Break			
Chair: Liantuan Xiao 肖连团 Taiyuan University of Technology 太原理工大学 Jianlin Zhao 赵建林 Northwestern Polytechnical University 西北工业大学				
15:50-16:10	Andrius Baltuška	Vienna University of Technology 维也纳技术大学	Field-shaped THz pulses for high-resolution absorption spectroscopy	Plenary talk
16:10-16:30	Jian Wu 吴健	East China Normal University 华东师范大学	Light-induced ultrafast dynamics of cold molecules	Plenary talk
16:30-16:50	Shih-Chi Chen 陈世祈	The Chinese University of Hong Kong 香港中文大学	Closed-loop two-photon lithography based on a single-cavity dual-comb laser	Plenary talk
16:50-17:10	Lilin Yi 义理林	Shanghai Jiao Tong University 上海交通大学	Intelligent single-shot full-field characterization over femtosecond pulses	Plenary talk
17:10-17:30	Peng Peng 彭鹏	ShanghaiTech University 上海科技大学	Line Shape Relations in Ultrafast Transient Absorption from a Coherent Superposition	Plenary talk
17:30-17:50	Meng Pang 庞盟	Shanghai Institute of Optics and Fine Mechanics, CAS 中国科学院上海光学精密机械研究所	GHz-rate optoacoustic mode-locking of soliton fiber lasers: from highly-complex soliton structures to well-controlled pulse dynamics	Plenary talk
18:00	Dinner			

2026.1.28

Plenary Talks (Ultrafast Science) Meeting Room 1

Chair: Yunquan Liu 刘运全
Peking University 北京大学
Jing Chen 陈京
University of Science and Technology of China 中国科学技术大学

Time	Speaker	Affiliation	Title	Type
9:00-9:20	Xiaojun Liu 柳晓军	Innovation Academy for Precision Measurement Science and Technology, CAS 中国科学院精密测量科学与技术创新研究院	Extreme Ultraviolet Frequency Comb and Its Applications	Plenary talk
9:20-9:40	Karoly Osvay	ELI-ERIC	The Extreme Light Infrastructure - the ultrafast sources of radiations and particles	Plenary talk
9:40-10:00	Fei Xu 徐飞	Nanjing University 南京大学	Multi-Functional Integrated Fiber Devices: Fabrication and Applications	Plenary talk
10:00-10:20	Junsong Peng 彭俊松	East China Normal University 华东师范大学	Nonlinear dynamics of mode-locked breathing soliton lasers and their intelligent control	Plenary talk
10:20-10:40	Coffee Break			
Chair: Shangqing Gong 龚尚庆 East China University of Science and Technology 华东理工大学 Yufang Liu 刘玉芳 Henan Normal University 河南师范大学				
10:40-11:00	Xueming Liu 刘雪明	Southeast University 东南大学	Dynamic of ultrafast lasers and Intelligent control	Plenary talk
11:00-11:20	Jing Chen 陈京	University of Science and Technology of China 中国科学技术大学	Intensity-dependent Interferences in Strong-Field Rydberg-State Excitation	Plenary talk
11:20-11:40	Sizuo Luo 罗嗣佐	Jilin University 吉林大学	Probing atomic ionization dynamics by ultrafast photoelectron interferometry	Plenary talk
11:40-12:00	Konstantin Dorfman	Hainan University 海南大学	Ultrafast spectroscopy with quantum light	Plenary talk
12:00-13:30	Lunch			

2026.1.28

Plenary Talks (Ultrafast Science) Meeting Room 3

Chair: Jie He 何杰
National Natural Science Foundation of China 国家自然科学基金委员会
Chao Chang 常超
Peking University 北京大学

10:40-11:00	Pu Wang 王璞	Beijing University of Technology 北京工业大学	Hollow-Core Anti-Resonant Fiber: from high-Power Laser Delivery to Mid-Infrared Laser Generation	Plenary talk
11:00-11:20	Kaiyou Wang 王开友	Institute of Semiconductors, CAS 中国科学院半导体研究所	Ultrafast light-spin interaction in 2D magnetic semiconductor metasurface and heterostructure	Plenary talk
11:20-11:40	Ming Yan 闫明	East China Normal University 华东师范大学	Broadband optical comb spectroscopy and imaging	Plenary talk
11:40-12:00	Ye Tian 田野	Shanghai Institute of Optics and Fine Mechanics, CAS 中国科学院上海光学精密机械研究所	Optical-Phase-Driven Electron Dynamics with Intense Terahertz Waveforms	Plenary talk
12:00-13:30	Lunch			

2026.1.27

Plenary Talks (Quantum Sensing) Meeting Room 2

Chair: Zhongwei Fan 樊仲维
University of Chinese Academy of Sciences 中国科学院大学
Hong Guo 郭弘
Peking University 北京大学

Time	Speaker	Affiliation	Title	Type
13:30-13:50	Wei Lu 陆卫	Shanghai Institute of Technical Physics, CAS 中国科学院上海技术物理研究所	Quantum Engineering of Non-Equilibrium Electron States in Infrared Photodetectors	Plenary talk
13:50-14:10	Chaoyang Lu 陆朝阳	University of Science and Technology of China 中国科学技术大学	Quantum computing with photons and atoms	Plenary talk
14:10-14:30	Yunfeng Xiao 肖云峰	Peking University 北京大学	Ultrahigh-Q microcavity optics and photonics	Plenary talk
14:30-14:50	Juan Yin 印娟	University of Science and Technology of China 中国科学技术大学	Research on Long-distance Quantum Interference and Its Applications	Plenary talk
14:50-15:10	Kelin Gao 高克林	Innovation Academy for Precision Measurement Science and Technology, CAS 中国科学院精密测量科学与技术创新研究院	Progress on $^{40}\text{Ca}^+$ optical clock	Plenary talk
15:10-15:30	Guilu Long 龙桂鲁	Tsinghua University 清华大学	Protecting Commanders from Precision Targeted Strikes via Quantum Secure Direct Communication	Plenary talk
15:30-15:50	Coffee Break			
Chair: Shougang Zhang 张首刚 National Time Service Center CAS 中国科学院国家授时中心 Yunfeng Xiao 肖云峰 Peking University 北京大学				
15:50-16:10	Hong Guo 郭弘	Peking University 北京大学	Quantum Sensing and Perception	Plenary talk
16:10-16:30	Lijian Zhang 张利剑	Nanjing University 南京大学	Towards quantum-enhanced sensing with multi-parameter estimation	Plenary talk
16:30-16:50	Qihua Xiong 熊启华	Tsinghua University 清华大学	Manipulating Exciton Polariton Condensates and Their Ultrafast Dynamics	Plenary talk
16:50-17:10	Baosen Shi 史保森	University of Science and Technology of China 中国科学技术大学	Mid-infrared Signal Detection Based on a Spectrum Transducer	Plenary talk
17:10-17:30	Xiulai Xu 许秀来	Peking University 北京大学	Strong coupling with excitons and plasmonic nanocavities	Plenary talk
17:30-17:50	Haibin Wu 武海斌	East China Normal University 华东师范大学	Exploring Ultracold Fermions in a Cavity	Plenary talk
18:00	Dinner			

2026.1.28

Plenary Talks (Quantum Sensing) Meeting Room 2

Chair: Qing Pan 潘庆
National Natural Science Foundation of China 国家自然科学基金委员会

Time	Speaker	Affiliation	Title	Type
9:00-9:20	Tao Li 李涛	Nanjing University 南京大学	Anomalous topological phenomena in topological waveguides array	Plenary talk
9:20-9:40	Feihu Xu 徐飞虎	University of Science and Technology of China 中国科学技术大学	Quantum Imaging Science and Technology	Plenary talk
9:40-10:00	Jun Zhang 张俊	Institute of Semiconductors, CAS 中国科学院半导体研究所	Optical properties of color centers in diamonds	Plenary talk
10:00-10:20	Qiongyi He 何琼毅	Peking University 北京大学	Non-Gaussian and high-dimension entanglement test and application in quantum metrology	Plenary talk
10:20-10:40	Coffee Break			
Chair: Zhiliang Yuan 袁之良 Beijing Academy of Quantum Information Sciences 北京量子信息科学研究院 Tao Li 李涛 Nanjing University 南京大学				
10:40-11:00	Yaohui Zheng 郑耀辉	Shanxi University 山西大学	Generation and Application of Squeezed Laser Sources	Plenary talk
11:00-11:20	Jietai Jing 荆杰泰	East China Normal University 华东师范大学	Generation, Detection and Application of Quantum Light Sources Based on Atomic Ensembles	Plenary talk
11:20-11:40	Linjie Zhang 张临杰	Shanxi University 山西大学	Sagnac-Enhanced Rydberg Superheterodyne Receiver based on velocity-selective atoms	Plenary talk
12:00-13:30	Lunch			

2026.1.27

Plenary Talks (Infrared/THz/Bio Photonics) Meeting Room 3

Chair: Xiangjun Xin 忻向军
Beijing Institute of Technology 北京理工大学
Zhichuan Niu 牛智川
Institute of Semiconductors, CAS 中国科学院半导体研究所

Time	Speaker	Affiliation	Title	Type
13:30-13:50	Qiang Zhao 赵强	Nanjing University of Posts and Telecommunications / Nanjing University of Information Science & Technology 南京邮电大学 / 南京信息工程大学	Flexible Intelligent Sensing Materials, Devices and Systems	Plenary talk
13:50-14:10	Xiaoping Zheng 郑小平	Tsinghua University 清华大学	Real-Time Integrated Terahertz Spectral Microscopy and Super-Resolution Imaging for Online Detection and Inversion of Trace Hazardous Targets	Plenary talk
14:10-14:30	Weida Hu 胡伟达	Shanghai Institute of Technical Physics, CAS 中国科学院上海技术物理研究所	Next-Generation Neuromorphic Infrared Photodetectors	Plenary talk
14:30-14:50	Jianlu Wang 王建禄	Fudan University 复旦大学	Research progress on novel photodetector chips	Plenary talk
14:50-15:10	Jian Chen 陈健	Nanjing University 南京大学	Superconducting quantum capacitance detectors with increased saturation power at 1.6 THz	Plenary talk
15:10-15:30	Tian Jiang 江天	National University of Defense Technology 国防科技大学	Optical Frequency Comb Links and Electromagnetic Sensing Applications	Plenary talk
15:30-15:50	Coffee Break			
Chair: Wei Ren 任伟 The Chinese University of Hong Kong 香港中文大学 Jian Chen 陈健 Nanjing University 南京大学				
15:50-16:10	Junle Qu 屈军乐	Shenzhen University 深圳大学	Advancing Point Scanning Super-Resolution: From STED Optimization to Depletion-Free FSTM & FIRED	Plenary talk
16:10-16:30	Yaxin Zhang 张雅鑫	University of Electronic Science and Technology of China 电子科技大学	Terahertz ISAC Technology Based on Reconfigurable Intelligent Surfaces	Plenary talk
16:30-16:50	Hua Li 黎华	Shanghai Institute of Microsystem and Information Technology, CAS 中国科学院上海微系统与信息技术研究所	Terahertz chaos generation in quantum cascade lasers	Plenary talk
16:50-17:10	Hui Yan 颜辉	South China Normal University 华南师范大学	Terahertz imaging based on Rydberg atoms	Plenary talk
17:10-17:30	Kai Zhang 张凯	Suzhou Institute of Nano-Tech and Nano-Bionics, CAS 中国科学院苏州纳米技术与纳米仿生研究所	Narrow-gap 2D Semiconductors for Infrared and Terahertz Optoelectronics	Plenary talk
17:30-17:50	Dong Sun 孙栋	Peking University / Zhengzhou University 北京大学 / 郑州大学	Direct Light Orbital Angular Momentum Detection in Mid-infrared based on Semimetallic Materials	Plenary talk
18:00	Dinner			

2026.1.28

Plenary Talks(Infrared/THz/Bio Photonics) Meeting Room 3

Chair: Feng Chen 陈峰
Shandong University 山东大学
Pu Wang 王璞
Beijing University of Technology 北京工业大学

Time	Speaker	Affiliation	Title	Type
9:00-9:20	Chao Chang 常超	Peking University 北京大学	Physics of Terahertz Radiation	Plenary talk
9:20-9:40	Qun Hao 郝群	Changchun University of Science and Technology 长春理工大学	Quantum-dot broadband infrared imagers technology	Plenary talk
9:40-10:00	Juncheng Cao 曹俊诚	Shanghai Institute of Microsystem and Information Technology, CAS 中国科学院上海微系统与信息技术研究所	Terahertz semiconductor quantum cascade lasers and applications	Plenary talk
10:00-10:20	Hai Lu 陆海	Nanjing University 南京大学	SiC-Based Single-Photon and Single-Electron Detector for New-Generation Electron Microscopy	Plenary talk
10:20-10:40	Coffee Break			

2026.1.27

Plenary Talks (Optical Field Manipulation & Intelligent Photonics) Meeting Room 4

Chair: Yihua Hu 胡以华
National University of Defense Technology 国防科技大学
Tiancai Zhang 张天才
Shanxi University 山西大学

Time	Speaker	Affiliation	Title	Type
13:30-13:50	Zhigang Chen 陈志刚	Nankai University 南开大学	Structured Light and Topological Manipulation	Plenary talk
13:50-14:10	Xiangdong Zhang 张向东	Beijing Institute of Technology 北京理工大学	Non-Abelian topological bound states in the continuum (BICs) and moiré BICs	Plenary talk
14:10-14:30	Jianpu Wang 王建浦	Nantong University 南通大学	Perovskite light-emitting diodes	Plenary talk
14:30-14:50	Li Pei 裴丽	Beijing Jiaotong University 北京交通大学	Silicon-Photonic Integrated Sensing and Processing for Optical Networks	Plenary talk
14:50-15:10	Yan Li 李焱	Peking University 北京大学	On-Chip 3D Devices for Phase Controlling and OAM Mode Protection	Plenary talk
15:10-15:30	Qinghai Song 宋清海	Harbin Institute of Technology 哈尔滨工业大学	Metalasers with arbitrary wave front	Plenary talk
15:30-15:50	Coffee Break			
Chair: Yuncai Wang 王云才 Guangdong University of Technology 广东工业大学 Zhigang Chen 陈志刚 Nankai University 南开大学				
15:50-16:10	Yihua Hu 胡以华	National University of Defense Technology 国防科技大学	Intelligent Imaging Laser-Induced Breakdown Spectroscopy (I ² LIBS)	Plenary talk
16:10-16:30	Limin Tong 童利民	Zhejiang University 浙江大学	Atomic scale light confinement: from deep-sub-wavelength to deep-sub-cycle	Plenary talk
16:30-16:50	Tiancai Zhang 张天才	Shanxi University 山西大学	Manipulation of neutral atom array and observation of super-radiance	Plenary talk
16:50-17:10	Akimov Aleksey	Russian Quantum Center	Sensing with color centers in diamond	Plenary talk
17:10-17:30	Hui Liu 刘辉	Nanjing University 南京大学	High-dimensional Topological Photonics in Synthetic Parameter Space	Plenary talk
17:30-17:50	Xinbin Cheng 程鑫彬	Tongji University 同济大学	Neural Array Meta-Imaging	Plenary talk
18:00	Dinner			

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Plenary Talks (Optical Field Manipulation & Intelligent Photonics) Meeting Room 4

Chair: Limin Tong 童利民
Zhejiang University 浙江大学
Lilin Yi 义理林
Shanghai Jiao Tong University 上海交通大学

Time	Speaker	Affiliation	Title	Type
9:00-9:20	Jianji Dong 董建绩	Huazhong University of Science and Technology 华中科技大学	Nonlinear optical neural network and its application	Plenary talk
9:20-9:40	Kun Huang 黄坤	East China Normal University 华东师范大学	Mid-infrared upconversion multi-dimensional imaging	Plenary talk
9:40-10:00	Chao Zuo 左超	Nanjing University of Science and Technology 南京理工大学	Computational phase imaging for label-free 3D microscopy: noninterferometric phase retrieval and intensity diffraction tomography	Plenary talk
10:00-10:20	Xiaosong Ma 马小松	Nanjing University 南京大学	Quantum memory at telecom wavelength using erbium-ion ensembles	Plenary talk
10:20-10:40	Coffee Break			
Chair: Shih-Chi Chen 陈世祈 The Chinese University of Hong Kong 香港中文大学 Wenhao Li 李文昊 Changchun Institute of Optics, Fine Mechanics and Physics, CAS 中科院长春光机所				
10:40-11:00	Shumin Xiao 肖淑敏	Harbin Institute of Technology (Shenzhen) 哈尔滨工业大学 (深圳)	High-performance all-dielectric metasurfaces and their applications	Plenary talk
11:00-11:20	Dangyuan Lei 雷党愿	City University of Hong Kong 香港城市大学	Quantum Tunneling Induced Nonlinear Optics in Plasmonic Nanocavities	Plenary talk
11:20-11:40	Xiaolong Su 苏晓龙	Shanxi University 山西大学	Continuous-variable entanglement resource chip	Plenary talk
11:40-12:00	E Wu 武愕	East China Normal University 华东师范大学	Mid-infrared single-photon upconversion spectroscopy based on temporal-spectral quantum correlation	Plenary talk
12:00-13:30	Lunch			

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Session 1: Ultrafast Strong-Field Laser Science and Technology / 专题 1: 超快强场激光科学与技术 Meeting Room 6

Time	Speaker	Affiliation	Title	Type
Chair:Zhaoyang Li 李朝阳 Shanghai Institute of Optics and Fine Mechanics, CAS 中国科学院上海光学精密机械研究所				
9:00-9:20	Liangyou Peng 彭良友	Peking University 北京大学	High-order harmonic generation in solids	Keynote
9:20-9:40	Pengfei Lan 兰鹏飞	Huazhong University of Science and Technology 华中科技大学	Imaging Molecular Bond Dissociation with High-Harmonic Spectroscopy	Keynote
9:40-9:55	Dmitry Sidorov-Biryukov	M. V. Lomonosov Moscow State University 莫斯科大学	Controlling Electron Dynamics in Above-Threshold Ionization Using Single-Cycle Terahertz Pulses	Invited
9:55-10:10	Elizaveta Gansrkaia	Vienna University of Technology 维也纳技术大学	Strong optical magnetic pulse spectroscopy using structured light and nanoscale sample morphology	Invited
10:10-10:25	Jicai Liu 刘纪彩	North China Electric Power University 华北电力大学	Timing ultrafast charge transfer by Resonant Auger Scattering	Invited
10:25-10:40	Yiming Pan 潘义明	ShanghaiTech University 上海科技大学	Time Reflection and Quantum Light Generation From Relativistic Plasma Mirrors	Invited
10:40-10:50	Coffee Break			
Chair: Liangyou Peng 彭良友 Peking University 北京大学				
10:50-11:05	Yuxin Leng, Zhiyuan Huang 冷雨欣、黄志远	University of Chinese Academy of Sciences 中国科学院大学	Research on ultrafast ultraviolet pulse generation, measurement, and applications based on hollow-core fibers	Keynote
11:05-11:20	Zhaoyang Li 李朝阳	Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences 中国科学院上海光学精密机械研究所	Beyond 100 Petawatt Laser and Related Technology Developments	Invited
11:20-11:35	Ya Bai 白亚	Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences 中国科学院上海光学精密机械研究所	Dynamical chiral high-harmonic generation via subcycle symmetry engineering	Invited
11:35-11:50	Liwei Song 宋立伟	Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences 中国科学院上海光学精密机械研究所	Nonlinear Photonics in the Terahertz Regime	Invited
11:50-12:05	Xiaofeng Li 李晓锋	Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences 中科院上海光学精密机械研究所	Generation of polarized electron beams through self-injection mechanism in the bubble regime of laser-wakefield acceleration	Invited
12:05-12:15	Zishuo Ren 任梓榘	Peking University 北京大学	Fiber optical time and frequency transfer based on optical frequency comb	Invited
12:15-12:25	Yifei Fang 方依靠	Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences 中国科学院上海光学精密机械研究所	Coherent SHG Modulation via THz-Driven Phonon-Polaritons in ZnO	Oral
12:25-12:35	Zheng Lu 鲁政	Tianjin University 天津大学	Measurement of Flow Velocity at Low Pressure Based on Femtosecond Laser-Guided Discharge	Oral
12:35-12:45	Huihui Wang 王慧慧	Shanxi University 山西大学	Pursuing long lived charge migration in molecules	Oral
12:45-13:30	Lunch			

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Session 2: Ultrafast Laser Technology and Devices / 专题 2: 超快激光技术与器件 Meeting Room 1

Time	Speaker	Affiliation	Title	Type
Chair: Chengbo Mou 牟成博 Shanghai University 上海大学				
13:00-13:15	Xiaoming Duan 段小明	Harbin Institute of Technology 哈尔滨工业大学	Progress in high-energy middle infrared picosecond optical parametric oscillators and amplifiers	keynote
13:15-13:30	Weitao Liu 刘韡韬	Fudan University 复旦大学	Field-enhanced nonlinear optics of low-dimensional and interfacial systems	keynote
13:30-13:45	Jie Li 李捷	Aerospace Information Research Institute, CAS 中国科学院空天信息创新研究院	High efficiency Extreme-ultraviolet High Harmonic Laser and Applications	keynote
13:45-14:00	Zhichao Luo 罗智超	South China Normal University 华南师范大学	920 nm High-Energy Pulse Nd-doped Fiber Laser	keynote
14:00-14:15	Zhengqian Luo 罗正钱	Xiamen University 厦门大学	Direct generation of visible-wavelength passively mode-locked fiber lasers	keynote
14:15-14:30	Xuezhong Yang 杨学宗	Hangzhou Institute for Advanced Study, University of CAS 国科大杭州高等研究院	Recent progress on high-repetition-rate pulsed diamond Raman lasers	Invited
14:30-14:45	Daping Luo 罗大平	East China Normal University 华东师范大学	Integrated Dual-comb spectrometer and its applications	Invited
14:45-15:00	Song Yang 杨松	Institute of Semiconductors, CAS 中国科学院半导体研究所	All-fiber Femtosecond Mamyshev Oscillator	Invited
15:00-15:15	Xiaobo Li 李校博	Tianjin University 天津大学	LiDAR Technologies for High-Precision and Multi-Dimensional Ocean Sensing	Invited
15:15-15:30	Zhiwen He 贺志文	National University of Defense Technology 国防科技大学	Transition dynamics of pulses in mode-locked fiber laser	Invited
15:30-15:45	Coffee Break			
Chair: Zhichao Luo 罗智超 South China Normal University 华南师范大学				
15:45-16:00	Fang Bo 薄方	Nankai University 南开大学	Efficient second harmonic generation in thin film lithium niobate microresonators	keynote
16:00-16:15	Wenkai Zhang 张文凯	Beijing Normal University 北京师范大学	Femtosecond optics and X-ray lasers and its application in ultrafast dynamics research	keynote
16:15-16:30	Chengbo Mou 牟成博	Shanghai University 上海大学	Principles and applications of Carbon Nanotube Mode-locked Erbium Doped Fiber Laser	keynote
16:30-16:45	Anbang Wang 王安帮	Guangdong University of Technology 广东工业大学	Multi-channel laser chaos generation and applications	keynote
16:45-17:00	Chunyu Guo 郭春雨	Shenzhen University 深圳大学	High Power Mid Infrared Fiber Lasers and the Applications	keynote

17:00-17:15	Weidong Chen 陈玮冬	Fujian Institute of Research on the Structure of Matter, CAS 中国科学院福建物质结构研究所	Watt-level few-optical-cycle Kerr-lens mode-locked solid-state Yb laser	Invited
17:15-17:30	Jintao Fan 范锦涛	Tianjin University 天津大学	Spatial temporal manipulation during nonlinear frequency process	Invited
17:30-17:45	Di Lin 林迪	Guangdong University of Tech- nology 广东工业大学	Recent advances in high-energy ultra- fast mode-locked fiber oscillators	Invited
17:45-18:00	Qian Li 李倩	Peking University 北京大学	Advanced All-Polarization-Maintaining Fiber Lasers and Their Applications in On-Chip Nonlinear Photonics for Sens- ing and OCT	Invited
18:00	Dinner			

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Session 2: Ultrafast Laser Technology and Devices / 专题 2: 超快激光技术与器件 Meeting Room 1

Time	Speaker	Affiliation	Title	Type
Chair: Daping Luo 罗大平 East China Normal University 华东师范大学				
9:00-9:15	Hongbo Jiang 江鸿博	Harbin Engineering University 哈尔滨工程大学	States evolution induced by variation of intracavity modulation depth in ultrafast fiber lasers	Invited
9:15-9:30	Sujuan Sun 孙素娟	Shandong Huaguang Optoelectronics Co., Ltd. 山东华光光电股份有限公司	High-Power Semiconductor Array Lasers and Related Technologies	Invited
9:30-9:40	Ziting Liu 刘姿廷	Jilin University 吉林大学	High-Stability Geometric Phase Fork Gratings for Vortex Generation and Manipulation	Oral
9:40-9:50	Xin Zhang 张欣	Jilin University 吉林大学	Femtosecond laser parallel processing enables high-speed five-dimensional optical storage and fabrication of micro-nano photonic devices	Oral
9:50-10:00	Lu Jiang 姜璐	Institute of Semiconductors, CAS 中国科学院半导体研究所	CW laser-assisted splitting of SiC wafer based on modified layer by picosecond laser	Oral
10:00-10:10	Ziyi Pu 蒲子怡	Institute of Semiconductors, CAS 中国科学院半导体研究所	Dynamic Evolution of Nyquist-pulse solitons from a mode-locked fiber oscillator	Oral
10:40-11:00	Coffee Break			

2026.1.28				
Session 3 : Fiber Lasers and Intelligent Control/ 专题 3: 光纤激光与智能控制 Meeting Room 2				
Time	Speaker	Affiliation	Title	Type
Chair: Wenjun Liu 刘文军 Beijing University of Posts and Telecommunications 北京邮电大学				
13:30-13:50	Luming Zhao 赵鹭明	Huazhong University of Science and Technology 华中科技大学	Nonlinear Fourier Transform and Its Extended Applications	Keynote
13:50-14:10	Guoping Dong 董国平	South China University of Technology 华南理工大学	Hybrid Glass Fiber and Devices	Keynote
14:10-14:25	Wenbin He 何文彬	Shanghai Institute of Optics and Fine Mechanics, CAS 中国科学院上海光学精密机械研究所	All-Optical mHz Stabilization and Tuning of a GHz Soliton Laser using Optoacoustic Injection Locking	Invited
14:25-14:40	Jian Wu 吴坚	National University of Defense Technology 国防科技大学	Active control and real-time measurement of fiber ultrafast laser states	Invited
14:40-14:55	Yiyang Luo 罗亦杨	Chongqing University 重庆大学	Ultrafast controllable laser pulse bunches and the sensing applications	Invited
14:55-15:10	Sha Wang 汪莎	Sichuan University 四川大学	Exploration of optical speckle applications	Invited
15:10-15:25	Jiaqi Zhou 周佳琦	Shanghai Institute of Optics and Fine Mechanics, CAS 中国科学院上海光学精密机械研究所	Free-running dual-comb spectroscopy by Raman gain modulation	Invited
15:25-15:40	Junqing Zhao 赵俊清	Shenzhen Technology University 深圳技术大学	High power, high efficiency, and high robustness mid-infrared optical parametric sources	Invited
15:40-16:00	Coffee Break			
Chair: Wenbin He 何文彬 Shanghai Institute of Optics and Fine Mechanics, CAS 中国科学院上海光学精密机械研究所				
16:00-16:20	Xuwen Shu 舒学文	Huazhong University of Science and Technology 华中科技大学	Dark Solitons in Fiber Lasers: Novel Generation Mechanisms and Diverse Pulse Dynamics	Keynote
16:20-16:40	Dong Mao 毛东	Northwestern Polytechnical University 西北工业大学	Multidimensional Modulation of Ultrafast Fiber Lasers	Keynote
16:40-16:55	Wenjun Liu 刘文军	Beijing University of Posts and Telecommunications 北京邮电大学	"AI+Physics" achieves spectral prediction in fiber lasers	Invited
16:55-17:10	Jiangming Xu 许将明	National University of Defense Technology 国防科技大学	Spectral flexible high power random fiber laser	Invited
17:10-17:25	Can Li 李灿	National University of Defense Technology 国防科技大学	Gain managed nonlinear amplification technology of ultrafast fiber laser	Invited
17:25-17:40	Fanchao Meng 孟凡超	Jilin University 吉林大学	Real-time measurements and machine learning optimizations of intracavity dynamics in ultrabroadband fiber lasers	Invited
17:40-17:55	K. Tamilselvan	Shenzhen University 深圳大学	Vector dissipative soliton dynamics in the Mamyshev oscillators	Invited
18:15	Dinner			

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Session 3: Fiber Lasers and Intelligent Control / 专题 3: 光纤激光与智能控制 Meeting Room 2

Time	Speaker	Affiliation	Title	Type
Chair: Guoping Dong 董国平 South China University of Technology 华南理工大学				
9:00-9:20	Jianxiang Wen 文建湘	Shanghai University 上海大学	High-order OAM Broadband light Source in an All-Fiber System	Keynote
9:20-9:40	Xiaosheng Xiao 肖晓晟	Beijing University of Posts and Telecommunications 北京邮电大学	Real-time observation of spatiotemporal nonlinear dynamics in multimode fiber lasers	Keynote
9:40-9:55	Shilong Liu 刘世隆	Université de Montréal 蒙特利尔大学	Nonlinear pulse shaper for spectro-temporal light engineering	Invited
9:55-10:10	Xingliang Li 李星亮	Hebei Normal University 河北师范大学	Study on the Characteristics of Noise-like Pulse Fiber Lasers	Invited
10:10-10:25	Lei Gao 高磊	Chongqing University 重庆大学	Single-shot polarization measurement and control of laser pulse for ultrafast polarization imaging	Invited
10:25-10:40	Yi Zhou 周毅	National University of Defense Technology 国防科技大学	Unveiling the real-time soliton dynamics in spatiotemporal ultrafast fiber lasers via gain control	Invited
10:40-10:55	Zhiqiang Wang 王治强	Anhui University 安徽大学	Generation of High-Power Few-Cycle Pulses in the Near-Infrared Regime with Optical Fibers	Invited
10:55-11:00	Coffee Break			
Session 3: Fiber Lasers and Intelligent Control / 专题 3: 光纤激光与智能控制				
Chair: Lei Gao 高磊 Chongqing University 重庆大学				
11:00-11:20	Wei Chen 陈伟	Shanghai University 上海大学	Specialty Optical Fiber Technologies for Ultrafast Lasers	Keynote
11:20-11:35	Defeng Zou 邹德峰	Shaanxi Normal University 陕西师范大学	Characterization and Control of Soliton Molecule Dynamics with Sub-Femtosecond Temporal Resolution	Invited
11:35-11:45	Yafei Wang 王亚飞	Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences 中国科学院上海光学精密机械研究所	Design and fabrication of highly Nd, Yb and Er doped silica fibers and their applications in HRR fiber lasers	Invited
12:00-13:30	Lunch			

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Session 4: Ultrafast Laser Intelligent Manufacturing / 专题 4: 超快激光智能制造 Meeting Room 4

Time	Speaker	Affiliation	Title	Type
Chair: Liping Shi 石理平 Xidian University 西安电子科技大学 Ke Sun 孙轲 Wenzhou University 温州大学				
13:00-13:15	Dezhi Tan 谭德志	Zhejiang University 浙江大学	Ultrafast laser-induced modulation of structures and photonic functionalities in glass	Keynote
13:15-13:30	Linhan Lin 林琳涵	Tsinghua University 清华大学	Laser nanoprinting of nanocrystals: from 3D printing to single emitter integration	Keynote
13:30-13:45	Yang Tan 谭杨	Shandong University 山东大学	Whispering-Gallery-Mode Lasers Based on Re:YAG Thin-Film Microcavity	Keynote
13:45-14:00	Dongdong Han 韩冬冬	Jilin University 吉林大学	Laser Fabrication of Actuators and Their Applications	Invited
14:00-14:15	Dongshi Zhang 张东石	Shanghai Jiao Tong University 上海交通大学	Femtosecond laser microfabrication of synthesized functional nanomaterials	Invited
14:15-14:30	Yunlu Sun 孙允陆	Fudan University 复旦大学	Ultrafast Laser Micro/nano-Fabrication & Bio-X Photonic Applications Thereof	Invited
14:30-14:45	Lei Wang 王雷	Qingdao University of Science and Technology 青岛科技大学	The excitation state dynamics principle of femtosecond laser-induced modification of transparent media and the research on optical waveguide devices	Invited
14:45-15:00	Zhenze Li 李臻贇	Jilin University 吉林大学	Fabrication of metasurface nano-optical elements based on the principle of optical far-field induced near-field damage	Invited
15:00-15:15	Shupeng Xu 许书鹏	East China Normal University 华东师范大学	Femtosecond Laser Multidimensional Plasma Grating Engineering and Advanced Manufacturing	Invited
15:15-15:30	Daishu Qian 钱代数	Guangdong Origin Laser Intelligent Technology Co., Ltd. 广东原点智能技术有限公司	Applications of numerical-controlled laser machine tools in 3D complex surface processing	Invited
15:30-15:50	Coffee Break			
Chair: Dongshi Zhang 张东石 Shanghai Jiao Tong University 上海交通大学 Yunlu Sun 孙允陆 Fudan University 复旦大学				
15:50-16:05	Qiang Wu 吴强	Nankai University 南开大学	Nonequilibrium Hyperdoping by Femtosecond Laser	Keynote
16:05-16:20	Yingchun Guan 管迎春	Beihang University 北京航空航天大学	mechanical performance of LPBF IN718 alloy induced by laser polishing	Keynote
16:20-16:35	Xueqing Liu 刘学青	Jilin University 吉林大学	Laser micro/nano fabrication and applications in selective spectral control	Keynote
16:35-16:50	Lisha Fan 范丽莎	Zhejiang University of Technology 浙江工业大学	Faceting control and sensing applications of ultrafast laser-induced nanoscale stripes	Invited
16:50-17:05	Liping Shi 石理平	Xidian University 西安电子科技大学	Burst-Mode Femtosecond Laser Coloring on Pure Titanium Products	Invited

17:05-17:20	Bing Han 韩冰	Shanghai Jiao Tong University 上海交通大学	Ultrafast laser fabrication of multifunctional medical micro-robots	Invited
17:20-17:35	Shiru Jiang 蒋士茹	Qingdao University of Science and Technology / East China Normal University 青岛科技大学 / 华东师范大学	High-resolution, high-speed, chromotropic color printing based on crystallization-dependent 100-nm gold periodic structures	Invited
17:35-17:50	Yu Zhou 周榆	Shanghai Jiao Tong University 上海交通大学	Femtosecond Laser-Induced Thermal Stress Wave-Driven Transfer: From Mechanism to Application	Invited
17:50-18:00	Wei Gong 龚伟	Jilin University 吉林大学	Mie-lithography: self-guiding nonlinear laser printing for deep ultraviolet to near-infrared nanophotonics	Oral
18:00-18:10	Hao Yuan 袁昊	Jilin University 吉林大学	High-capacity optical data storage by ultraviolet femtosecond laser writing in silica glass	Oral
18:10	Dinner			

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Session 5: Optical Frequency Combs and Their Applications / 专题 5: 光学频率梳及应用 Meeting Room 5

Time	Speaker	Affiliation	Title	Type
Chair: Lei Dong 董磊 Shanxi University 山西大学				
13:30-13:45	Zhenda Xie 谢臻达	Nanjing University 南京大学	Low-noise photonic microwave generation	Keynote
13:45-14:00	Xinlun Cai 蔡鑫伦	Sun Yat-sen University 中山大学	Highly tunable flat-top thin-film lithium niobate electro-optic frequency comb	Invited
14:00-14:15	Jianqi Hu 胡剑琦	The University of Hong Kong 香港大学	Towards integrated self-referenced optical frequency combs	Invited
14:15-14:30	Qifan Yang 杨起帆	Peking University 北京大学	The second evolution of integrated optical frequency combs	Invited
14:30-14:45	Xing Zou 邹幸	National University of Defense Technology 国防科技大学	Broadband Optical Frequency Comb Generation in Nonlinear Optical Waveguides	Invited
14:45-15:00	Qitao Cao 曹启韬	Peking University 北京大学	Efficient cross-band frequency conversion in an optical microcavity	Invited
15:00-15:15	Lei Shi 施雷	Huazhong University of Science and Technology 华中科技大学	Generation and application of broadband flat-top lithium niobate electro-optic frequency comb	Invited
15:15-15:30	Mingming Nie 聂明明	University of Electronic Science and Technology of China 电子科技大学	Dissipative Quadratic Cavity Soliton Frequency Combs	Invited
15:30-15:50	Coffee Break			
Chair: Zhenda Xie 谢臻达 Nanjing University 南京大学				
15:50-16:05	Lei Dong 董磊	Shanxi University 山西大学	Resonant Optical Frequency Comb Photoacoustic/Photothermal Spectroscopy Based on High-Q Quartz Tuning Fork	Keynote
16:05-16:20	Ruifang Dong 董瑞芳	National Time Service Center, CAS 中国科学院国家授时中心	Quantum-Enabled Microwave Photonics: A Coherent Path from Single-Photon Detection to Nonlocal Optical Processing	Invited
16:20-16:35	Qiang Wang 王强	Hefei Institutes of Physical Science, CAS 合肥物质研究院	Broadband, High-Resolution Dual-Comb Spectroscopy for Gas Sensing	Invited
16:35-16:50	Kunpeng Jia 贾琨鹏	Nanjing University 南京大学	Low-noise terahertz frequency synthesis based on microcomb	Invited
16:50-17:05	Yicheng Wang 王奕程	Zhangjiang Laboratory 张江实验室	Watt-Class Sub-100-fs Kerr-Lens Mode-Locked Dual-Comb Laser at 2.13 μm	Invited
17:05-17:20	Xin Zhao 赵欣	Beihang University 北京航空航天大学	An Ulmost Simple Solution for Completely On-chip-Integrable Electro-optic Dual-comb Spectroscopy	Invited
17:20-17:35	Bowen Li 李博闻	University of Electronic Science and Technology of China 电子科技大学	High-energy single-cavity dual-comb fiber laser and its applications	Invited
17:35-17:50	Jie Chen 陈杰	Taiyuan University of Technology 太原理工大学	Single-cavity dual-comb/multi-comb generation and terahertz spectroscopy	Invited
17:50-18:05	Zejiang Deng 邓泽江	East China Normal University 华东师范大学	Triple-quantum dual-comb two-dimensional coherent spectroscopy resolves velocity-synchronized Dicke states in hot atomic vapors	Invited
18:05-18:20	Yuxuan Ma 马宇轩	Guangwei (Guangdong) Technology Co., Ltd. 光维(广东)科技有限公司	Hand-held-sized narrow linewidth femtosecond laser frequency comb and its nm-level precision absolute rangefinder instrument	Invited
18:20	Dinner			

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Session 6: Atomic and Molecular Precision Spectroscopy / 专题 6: 原子分子精密光谱 Meeting Room 4

Time	Speaker	Affiliation	Title	Type
Chair: Kun Liu 刘锟 Hefei Institutes of Physical Science, CAS 中国科学院合肥物质科学研究院				
9:00-9:20	Qingyu Cai 蔡庆宇	Hainan University 海南大学	The trade-off between precision and accuracy in quantum metrology	Keynote
9:20-9:35	Hongfei Wang 王鸿飞	Westlake University 西湖大学	Recent Progresses on Ultrafast Nonlinear Spectroscopy with Synchronized Long Picosecond and Short Femtosecond Lasers	Invited
9:35-9:50	Bo Yan 颜波	Zhejiang University 浙江大学	Deep laser cooling and trapping of BaF molecules	Invited
9:50-10:05	Kjeld Beeks	Vienna University of Technology 维也纳技术大学	Building a Nuclear Clock by control of the solid-state environment	Invited
10:05-10:20	Linghai Xie 解令海	Nanjing University of Posts and Telecommunications 南京邮电大学	Organic Excitonic and Photonic Nano-Materials	Invited
10:20-10:35	Zhangkai Zhou 周张凯	Sun Yat-sen University 中山大学	The manipulation and enhancement of optical field based on metasurfaces	Invited
10:35-11:00	Coffee Break			
Chair: Chuantao Zheng 郑传涛 Jilin University 吉林大学				
11:00-11:15	Kun Liu 刘锟	Hefei Institutes of Physical Science, CAS 中国科学院合肥物质科学研究院	Cavity enhanced absorption spectroscopy for high precision measurement of greenhouse gases	Invited
11:15-11:30	Shuijing Tang 唐水晶	Peking University 北京大学	Microcavity-enhanced optical sensing, spectroscopy and imaging	Invited
11:30-11:45	Xingdong Zhao 赵兴东	Henan Normal University 河南师范大学	Quantum Multiparameter Estimation Based on the Unruh Effect	Invited
11:45-12:00	Jieci Wang 王接词	Hunan Normal University 湖南师范大学	Deep learning for gravitational and quantum physics	Invited
12:00-12:15	Le Luo 罗乐	Sun Yat-sen University 中山大学	Quantum Information Processing Based on Metastable States of Trapped Ions	Invited
12:15-13:30	Lunch			
Chair: Daquan Yang 杨大全 Beijing University of Posts and Telecommunications 北京邮电大学				
13:30-13:50	Yanhong Xiao 肖艳红	Fudan University 复旦大学	Hybrid quantum squeezing of atoms and light	Keynote
13:50-14:05	Chuangang Ning 宁传刚	Tsinghua University 清华大学	Structures of atomic anions and laser cooling of a negative ion	Invited
14:05-14:20	Jie Yang 杨杰	Institute of Modern Physics, CAS 中国科学院近代物理研究所	Electronic structure of the transition metal monoxides	Invited
14:20-14:35	Dacheng Zhang 张大成	Xidian University 西安电子科技大学	Laser plasma emission and its applications	Invited

14:35-14:50	Ruyi Wei 魏儒义	Wuhan University 武汉大学	Progress in the Development of Infrared Hyperspectral Remote Sensing Technology and Instruments	Invited
14:50-15:05	Biao Zhong 钟标	Technical Institute of Physics and Chemistry, CAS 中国科学院理化技术研究所	Breaking the Cryogenic Barrier: Reaching Sub-120 K Temperatures in Yb:LLF Laser Cooling	Invited
15:05-15:20	Yuechun Jiao 焦月春	Shanxi University 山西大学	Microwave sensing based on Rydberg atoms	Invited
15:20-15:30	Xiaobin Zhou 周晓彬	Shanxi University 山西大学	Optical feedback noise-immune cavity-enhanced optical heterodyne molecular spectrometry	Oral
15:30-15:50	Coffee Break			
Chair: Jie Yang 杨杰 Institute of Modern Physics, CAS 中国科学院近代物理研究所				
15:50-16:05	Daquan Yang 杨大全	Beijing University of Posts and Telecommunications 北京邮电大学	Optical Microcavity Sensing and Precision Measurement	Invited
16:05-16:20	Chuantao Zheng 郑传涛	Jilin University 吉林大学	On-chip waveguide-enhanced photothermal spectroscopy for gas sensing	Invited
16:20-16:35	Shuai Shi 施帅	National University of Defense Technology 国防科技大学	High-fidelity photonic quantum logic gate based on near-optimal Rydberg single-photon source	Invited
16:35-16:50	Chuanliang Li 李传亮	Taiyuan University of Science and Technology 太原科技大学	The high resolution spectra of He2 radical and its predissociation in the near infrared region	Invited
16:50-17:05	Yanli Zhou 周艳丽	National University of Defense Technology 国防科技大学	Anomalous relaxation process in Markovian Open Quantum Systems	Invited
17:05-17:20	Gaoxuan Wang 王高旋	Zhejiang University 浙江大学	Development of a prism-based broadband optical cavity (400 – 1600 nm) for high-sensitivity cavity enhanced absorption spectroscopy	Invited
17:20-17:35	Ran Liu 刘然	Shanghai Ideaoptics Co., Ltd. 上海复享光学股份有限公司	Zero-Astigmatism Imaging Spectrograph for Precision Spectroscopy	Invited
17:35-17:45	Wanying Ding 丁婉莹	National University of Defense Technology 国防科技大学	Quantum Dots-Enhanced LIBS for Ultra-sensitive Quantification of Trace Metals	Oral
17:45-17:55	Wencui Peng 彭文翠	Innovation Academy for Precision Measurement Science and Technology, CAS 中国科学院精密测量科学与技术创新研究院	In-situ Magnetic Field Probing Based on ${}^9\text{Be}^+$ Coulomb Crystals and High-Precision Measurement of Hyperfine Constants	Oral
18:00	Dinner			

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Session 7: Quantum Precision Measurement and Devices/ 专题 7: 量子精密测量与器件 Meeting Room 9

Time	Speaker	Affiliation	Title	Type
Chair: Haizhi Song 宋海智 Southwest Institute of Technical Physics 西南技术物理研究所				
13:30-13:45	Guoyong Xiang 项国勇	University of Science and Technology of China 中国科学技术大学	Control-Enhanced Quantum Precision Measurement	Invited
13:45-14:00	Jieqiao Liao 廖洁桥	Hunan Normal University 湖南师范大学	Microscopic Theory of Heat Transfer across a Vacuum	Invited
14:00-14:15	Weitao Liu 刘伟涛	National University of Defense Technology 国防科技大学	Second-order coherence of random field and its application in imaging	Invited
14:15-14:30	Xiutao Lou 娄秀涛	Harbin Institute of Technology 哈尔滨工业大学	Spatially resolved spectroscopic gas sensing using tunable narrow-linewidth lasers	Invited
14:30-14:45	Yajun Wang 王雅君	Shanxi University 山西大学	Squeezed light and lasing	Invited
14:45-15:00	Liwei Lei 雷理玮	Peking University 北京大学	Sensitivity Limits of Quantum Magnetic Sensing	Invited
15:00-15:15	Shangran Xie 谢尚然	Beijing Institute of Technology 北京理工大学	Optical trapping and metrology in hollow-core optical fibers	Invited
15:15-15:30	Jiulin Shi 史久林	Nanchang Hangkong University 南昌航空大学	Research Progress in Dual-Modal Photoelastography Technology for Biological Tissues and Its Applications	Invited
15:30-15:50	Coffee Break			
Chair: Long Jin 金龙 South China Normal University 华南师范大学				
15:50-16:05	Yu Zhou 周宇	Harbin Institute of Technology, Shenzhen 哈尔滨工业大学 (深圳)	Stress-induced spin in silicon carbide	Invited
16:05-16:20	Heyuan Guan 关贺元	Jinan University 暨南大学	Integrated Beam Modulation and Detection Devices Based on Metagratings	Invited
16:20-16:35	Jun He 何俊	Shenzhen University 深圳大学	Sapphire Fiber Bragg Gratings for High-Temperature Multi-Physics Fields Measurements	Invited
16:35-16:50	Ke Chen 陈珂	Jiangnan University 江南大学	Ultra-sensitive cantilever-enhanced fiber-optic photoacoustic gas sensing	Invited
16:50-17:05	Chao Wang 汪超	Shanghai Institute of Optics and Fine Mechanics, CAS 中国科学院上海光学精密机械研究所	Development of a High-Performance 1.9 μm Narrow-Linewidth Tunable External-Cavity Diode Laser Based on In-House GaSb Semiconductor Chip	Invited
17:05-17:20	Gang Zhao 赵刚	Shanxi University 山西大学	Single-shot Molecular Spectroscopy at Nanosecond Rates	Invited
17:20-17:35	Yu Sun 孙羽	Shenzhen Advanced Light Source Research Institute 深圳先进光源研究院	Precision Spectroscopy of Helium Atoms	Invited
17:35-17:50	Xiaojuan Yan 闫晓娟	Shanxi University 山西大学	High-Sensitivity Multi-Gas Detection via Optical Feedback Cavity-Enhanced Raman Spectroscopy	Invited
18:00	Dinner			

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Session 7: Quantum Precision Measurement and Devices/ 专题 7: 量子精密测量与器件 Meeting Room 9

Time	Speaker	Affiliation	Title	Type
Chair: Bing Tu 涂兵 Nanjing University of Information Science and Technology 南京信息工程大学				
9:00-9:15	Long Jin 金龙	South China Normal University 华南师范大学	Fiber-Optic photoacoustic sensing and imaging for human microcirculation monitoring in free motion	Invited
9:15-9:30	Jia Kong 孔嘉	Hangzhou Dianzi University 杭州电子科技大学	Quantum Noise Suppression in Atomic Magnetometer	Invited
9:30-9:45	Jing Yu 郁菁	Shandong Normal University 山东师范大学	Design of "Particle-in-Cavity" Structure and Its Applications in SERS	Invited
9:45-10:00	Zhirong Zhang 张志荣	Hefei Institutes of Physical Science (CAS) 中国科学院合肥物质科学研究院	Research on Gas Sensing Technology Based on Hollow-core Optical Waveguide	Invited
10:00-10:15	Yiteng Lv 吕奕腾	Peking University 北京大学	Design of a Miniaturized Atomic Magnetometer for Biomagnetic Measurements in Unshielded Environments	Invited
10:15-10:30	Kaiyuan Zheng 郑凯元	The Hong Kong University of Science and Technology 香港科技大学	High sensitivity laser spectroscopy chips with sensing applications	Invited
10:30-10:45	Fang Wang 王芳	Shanghai Institute of Technical Physics of the CAS 中国科学院上海技术物理研究所	Novel Infrared Photodetectors and Their Intelligent Remote Sensing Applications	Invited
10:45-11:00	Coffee Break			
11:00-11:15	Yuan Zhao 赵远	Harbin Institute of Technology 哈尔滨工业大学	Quantum-detection technology in-complex environments	Invited
11:15-11:30	Hailu Luo 罗海陆	Hunan University 湖南大学	Quantum Differential Holography	Invited
11:30-11:45	Xiujuan Zhuang 庄秀娟	Hunan University 湖南大学	Research on Low-Dimensional Semiconductor Materials Based on Micro-Area Ultra-fast Spectroscopy Technology	Invited
11:45-12:00	Yafei Li 李亚飞	Jinan University 暨南大学	Microcavity-Enhanced Optoelectronic Fiber Photoacoustic Spectroscopy for ppb-Level Trace Gas Sensing	Invited
12:00-13:30	Lunch			
Chair: Weiguang Ma 马维光 Shanxi University 山西大学				
13:30-13:45	Bing Tu 涂兵	Nanjing University of Information Science and Technology 南京信息工程大学	Hyperspectral Computational Imaging and Applications	Invited
13:45-14:00	Yuefeng Lu 陆岳锋	Institute of Quantum Electronics, School of Electronics, Peking University 北京大学电子学院量子电子所	Absolute ³ He Geomagnetic Magnetometry	Invited
14:00-14:15	Yang Li 李扬	Southwest Communications Research Institute 西南通信研究所	Research on the Security of Quantum-Enhanced Time Synchronization: Theories and Methods	Invited
14:15-14:30	Jiaqi Yang 杨家琪	Shanxi University 山西大学	Research on High-Performance Gas Sensors Based on Nickel-Based Oxides	Invited
14:30-14:45	Xinyu Jia 贾新宇	Peking University 北京大学	Continuous-variable quantum entanglement on chip	Invited
15:30-15:50	Coffee Break			

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Session 8: Spectral Remote Sensing and Its Applications / 专题 8: 光谱遥感及应用 Meeting Room 3

Time	Speaker	Affiliation	Title	Type
Chair: Qifan Yang 杨起帆 Peking University 北京大学				
13:20-13:40	Lianbo Guo 郭连波	Huazhong University of Science and Technology 华中科技大学	Key Technologies Research and Typical Applications of Multimodal Fusion Laser-induced Breakdown Spectroscopy	Keynote
13:40-14:00	Yufei Ma 马欲飞	Harbin Institute of Technology 哈尔滨工业大学	Quartz-enhanced laser spectroscopy sensing	Keynote
14:00-14:15	Chen Ge 葛琛	Institute of Physics, CAS 中国科学院物理研究所	Oxide Intelligent Optoelectronic Physics	Invited
14:15-14:30	Qiang Zhang 张强	Shanxi University 山西大学	Optomechanically enhanced fiber-optic sensing technologies	Invited
14:30-14:45	Lai Zhou 周来	Beijing Academy of Quantum Information Sciences 北京量子信息科学研究院	Remote sensing and quantum communication through photon level detection	Invited
14:45-15:00	Wei Li 李维	Beijing Institute of Space Mechanics & Electricity 北京空间机电研究所	Optical computing technology for space-based remote sensing	Invited
15:00-15:15	Xinyuan Zhang 张鑫源	National University of Defense Technology 国防科技大学	Multi-spectral Reflective Tomography LiDAR (RTL) Super-resolution Imaging Technology	Invited
15:15-15:30	Luning Li 李鲁宁	Shanghai Institute of Technical Physics, CAS 中国科学院上海技术物理研究所	Laser Spectroscopy Techniques in Planetary Exploration and Data Analysis Methods	Invited
15:30-15:50	Coffee Break			

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Session 9: Terahertz Science and Technology / 专题 9: 太赫兹科学与技术 Meeting Room 3

Time	Speaker	Affiliation	Title	Type
Chair: Jian Chen 陈健 Nanjing University 南京大学 Yan Zhang 张岩 Capital Normal University 首都师范大学				
9:00-9:15	Jinjun Feng 冯进军	Beijing Vacuum Electronics Research Institute 北京真空电子技术研究所	Demonstration of Vortex-Wave Gener- ation Using E-Band TWTs and Metasur- face	Invited
9:15-9:30	Huanjun Chen 陈焕君	Sun Yat-sen University 中山大学	Graphene plasmon polariton atomic cavities and their THz detection	Invited
9:30-9:45	Dongwen Zhang 张栋文	National University of Defense Technology 国防科技大学	Synchronizing Terahertz Wave Genera- tion with Attosecond Bursts from Water	Invited
9:45-10:00	Lei Hou 侯磊	Xi'an University of Technology 西安理工大学	AC Powered Glow Discharge Terahertz Detector	Invited
10:00-10:15	Liangliang Zhang 张亮亮	Capital Normal University 首都师范大学	Terahertz coherent detection based on liquid water	Invited
10:15-10:30	Shaoqing Du 杜少卿	Shanghai Institute of Microsys- tem and Information Technolo- gy, CAS 中国科学院上海微系统与信息技术 研究所	Ortho-para conversion of a H ₂ O mole- cule encapsulated in a fullerene in- duced by single electron tunneling	Invited
10:30-10:45	Min Hu 胡旻	University of Electronic Science and Technology of China 电子科技大学	Non-destructive testing and applica- tions of Terahertz nano-microscopy	Invited
10:45-11:00	Coffee Break			
Chair: Jinjun Feng 冯进军 Beijing Vacuum Electronics Research Institute 北京真空电子技术研究所 Qiye Wen 文岐业 University of Electronic Science and Technology of China 电子科技大学				
11:00-11:15	Yan Zhang 张岩	Capital Normal University 首都师范大学	Terahertz spatial modulator	Invited
11:15-11:30	Chaohai Du 杜朝海	Peking University 北京大学	Terahertz Plasmonic Vacuum Electronic Devices	Invited
11:30-11:45	Wenxin Liu 刘文鑫	Aerospace Information Re- search Institute, CAS 中国科学院空天信息创新研究院	Progress of Terahertz Vacuum Traveling wave amplifier in AIRCAS	Invited
11:45-12:00	Zhuo Dong 董卓	Suzhou Institute of Nano-Tech and Nano-Bionics, CAS 中国科学院苏州纳米技术与纳米仿 生研究所	Integrated two-dimensional material room-temperature terahertz detector and its application research	Invited
12:15-13:30	Lunch			

Chair: Chaohai Du 杜朝海 Peking University 北京大学 Xiaojun Wu 吴晓君 Beihang University 北京航空航天大学				
13:30-13:45	Qiye Wen 文岐业	University of Electronic Science and Technology of China 电子科技大学	Broadband Electromagnetic Wave-Absorbing Materials and Applications for Next-Generation Information Technology	Invited
13:45-14:00	Huabin Wang 王化斌	Chongqing Institute of Green and Intelligent Technology, CAS 中国科学院重庆绿色智能技术研究院	Terahertz near-field detection techniques	Invited
14:00-14:15	Jie Zhao 赵洁	School of Physics and Optoelectronics, Beijing University of Technology 北京工业大学物理与光电工程学院	Enhanced terahertz full-field imaging with deep learning and computed tomography under the scanning illumination	Invited
14:15-14:30	Shibo Shu 舒诗博	Institute of High Energy Physics, CAS 中国科学院高能物理研究所	Development of 6-inch superconducting detector arrays for Primordial Gravitational wave search at 90	Invited
14:30-14:45	Dingding Ren 任丁丁	Shanghai Institute of Microsystem and Information Technology, CAS 中国科学院上海微系统与信息技术研究所	Germanium-based low-loss integrated optics	Invited
14:45-15:00	Xuecou Tu 涂学凑	Nanjing University 南京大学	Terahertz Hybrid Integrated Devices and Their Manufacturing Processes	Invited
15:00-15:15	Ride Wang 王日德	National Innovation Institute of Defense Technology, Academy of Military Sciences 军事科学院国防科技创新研究院	High-Sensitivity Trace Biosensing Detection Based on Terahertz Metasurface	Invited
15:15-15:30	Lu Zhang 张鹿	Zhejiang University 浙江大学	Photonic THz Continuous-wave Imaging	Invited
15:30-15:50	Coffee Break			
Chair: Huabin Wang 王化斌 Chongqing Institute of Green and Intelligent Technology, Chinese Academy of Sciences 中国科学院重庆绿色智能技术研究院 Xuecou Tu 涂学凑 Nanjing University 南京大学				
15:50-16:05	Yue Wang 王玥	Xi'an University of Technology 西安理工大学	Design, Characteristics, and Sensing Research of Novel Carbon Nanotube Film THz Metasurfaces	Invited
16:05-16:20	Su Xu 徐速	Jilin University 吉林大学	Silicon devices for terahertz reconfigurable functionalities	Invited
16:20-16:35	Hao Hu 胡昊	Nanjing University of Aeronautics and Astronautics 南京航空航天大学	Controlling THz Cherenkov radiation with low-dimensional materials	Invited
16:35-16:50	Huan Zhao 赵欢	Beijing Institute of Technology 北京理工大学	Decoupling of Phase and Amplitude Channels with a Terahertz Metasurface towards High-security Image	Invited
18:00	Dinner			

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Session 10: Biomedical Photonics/ 专题 10: 生物医学光子学 Meeting Room 3

Chair: Qinrong Zhang 张沁榕
City University of Hong Kong 香港城市大学
Guozhong Zhao 赵国忠
Capital Normal University 首都师范大学

15:50-16:10	Xueli Chen 陈雪利	Xidian University 西安电子科技大学	Computational volumetric Raman imaging	Keynote
16:10-16:30	Bin Huang 黄斌	Nanjing Medical University 南京医科大学	Interfacial Assembly of Photosensitizers on Nano-Bubbles for Tumor Phototheranostics	Keynote
16:30-16:45	Guozhong Zhao 赵国忠	Capital Normal University 首都师范大学	Terahertz Sensing of Biochemical Molecules Based on Terahertz Metasurface	Invited
16:45-17:00	Jierong Cheng 程洁嵘	Nankai University 南开大学	Terahertz cascaded and polarization-multiplexed metasurfaces and applications	Invited
17:00-17:15	Xiaoyu Weng 翁晓羽	Shenzhen University 深圳大学	Research on Optical Imaging via Novel Light-Field Control	Invited
17:15-17:30	Qinrong Zhang 张沁榕	City University of Hong Kong 香港城市大学	High-fidelity imaging of living brains and eyes	Invited
17:30-17:45	Hongsen He 何宏森	Xiamen University 厦门大学	Imaging-Tailored Lasers for Photoacoustic Microscopy: Embedding Imaging Functions into the Source	Invited
17:45-18:00	Kangwen Yang 杨康文	University of Shanghai for Science and Technology 上海理工大学	Fiber enabled compact and fast coherent Raman spectroscopy	Invited
18:00	Dinner			

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Session 11: Photon Detection and Imaging/ 专题 11: 光子探测与成像 Meeting Room 5

Time	Speaker	Affiliation	Title	Type
Chair: Baoqing Sun 孙宝清 Shandong University 山东大学				
9:00-9:15	Lu Gao 高禄	China University of Geosciences, Beijing 中国地质大学 (北京)	From spatial correlation to orbital angular momentum correlation with incoherent light	Invited
9:15-9:30	Shixiang Xu 徐世祥	Shenzhen University 深圳大学	Two-step-phase-shift SPIDER	Invited
9:30-9:45	Haoyu Li 李浩宇	Harbin Institute of Technology 哈尔滨工业大学	Mathematically surpassing microscope limits to enable super-resolution in live cells	Invited
9:45-10:00	Hao Li 李浩	Shanghai Institute of Microsystem and Information Technology, CAS 中国科学院上海微系统与信息技术研究所	High efficiency superconducting nanowire single photon detector	Invited
10:00-10:15	Zhiyuan Zhou 周志远	University of Science and Technology of China 中国科学技术大学	Quantum Light Sources and Their Applications in Quantum Imaging	Invited
10:15-10:30	Guangwei Deng 邓光伟	University of Electronic Science and Technology of China 电子科技大学	Progress in quantum optomechanics	Invited
10:40-11:00	Coffee Break			
Chair: Haoyu Li 李浩宇 Harbin Institute of Technology 哈尔滨工业大学				
11:00-11:15	Baoqing Sun 孙宝清	Shandong University 山东大学	Ultra-broadband hyperspectral diffraction imaging using a ptychographic probe	Invited
11:15-11:30	Yi Xu 徐毅	Guangdong University of Technology 广东工业大学	Compressive optical transmission matrix for fast scattering imaging	Invited
11:30-11:45	Bin Wang 汪斌	Jinan Institute of Quantum Technology 济南量子技术研究院	High-Performance Quantum Frequency Conversion Connecting Ultraviolet and Telecom Bands	Invited
11:45-12:00	Jianan Fang 方迦南	East China Normal University 华东师范大学	Mid-infrared single-photon upconversion spectroscopy	Invited
12:00-13:30	Lunch			
Session 11: Photon Detection and Imaging / 专题 11: 光子探测与成像				
Chair: Zhiyuan Zhou 周志远 University of Science and Technology of China 中国科学技术大学				
13:30-13:45	Lecheng Shen 沈乐成	East China Normal University 华东师范大学	High-speed wavefront control of scattered light	Invited
13:45-14:00	Bang Wu 吴邦	Beijing Academy of Quantum Information Sciences 北京量子信息科学研究院	Towards High-Efficiency Two-Photon Source: Harnessing the Degenerate XX-X Cascade in Cavity	Invited
14:00-14:15	Dong Pan 潘栋	Beijing Academy of Quantum Information Sciences 北京量子信息科学研究院	Research Progress on the Practical Implementation of Quantum Secure Direct Communication	Invited
14:15-14:30	Shuai Sun 孙帅	National University of Defense Technology 国防科技大学	Non-local wavefront correction: from quantum to classical to computational	Invited
14:30-14:40	Yusen Li 李玉森	Nanjing University of Science and Technology 南京理工大学	Physics-Aware Optimization of EDoF Hybrid Systems via PSF Invertibility	Oral
14:40-14:50	Ruen Chen 陈孺恩	Nanjing University of Science and Technology 南京理工大学	Adaptively Statistics-Curvature Guided Robust 3D Reconstruction in Outdoor Remote Detection	Oral

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Session 12: Infrared Photonics and Devices / 专题 12: 红外光子学与器件 Meeting Room 6

Chair: Qiang Li 李强
Zhejiang University 浙江大学

13:30-13:45	Xin Tang 唐鑫	Minzu University of China 中央民族大学	Colloidal quantum dot infrared multi-spectral imagers	Keynote
13:45-14:00	Quanyong Lu 陆全勇	Beijing Academy of Quantum Information Sciences 北京量子信息科学研究院	Mid-IR quantum cascade laser frequency combs and their application in molecular spectroscopy	Invited
14:00-14:15	Houkun Liang 梁厚昆	Sichuan University 四川大学	On-chip low-threshold broadband long-wave infrared parametric conversion	Invited
14:15-14:30	Guohui Li 李国辉	Taiyuan University of Technology 太原理工大学	Noise-Immune, High-Speed Large-Area Organic Photodetectors for low-Light Imaging	Invited
14:30-14:45	Haozheng Liu 刘昊正	Shanghai Institute of Technical Physics, CAS 中科院上海技物所	Characterization of Extended-short-wave Infrared Detector Materials	Invited
14:45-15:00	Zhenrui Li 李真睿	Harbin Engineering University 哈尔滨工程大学	Research on Mid-Infrared Raman Soliton Lasers Based on Fluorotellurite Fiber	Invited
15:00-15:15	Gengxu Chen 陈耿旭	Fuzhou University 福州大学	Optoelectronic Neuromorphic Devices for Multimodal Perception and Multi-functional Integration	Invited
15:15-15:30	Ge Mou 牟鸽	Beijing Institute of Technology 北京理工大学	Colloidal quantum dot-based infrared-to-visible upconversion imaging	Invited
15:30-15:50	Coffee Break			
Chair: Houkun Liang 梁厚昆 Sichuan University 四川大学				
15:50-16:05	Qiang Li 李强	Zhejiang University 浙江大学	Photonic Structure-Based Thermal Radiation Regulation and Its Applications in Infrared Stealth	Invited
16:05-16:20	Wenjia Zhou 周文佳	ShanghaiTech University 上海科技大学	Colloidal quantum dot based upconversion photodetector	Invited
16:20-16:35	Wei Wei 韦玮	Chongqing University 重庆大学	Cross-Scale AI-Driven Design of Optoelectronic Systems	Invited
16:35-16:45	Yuning Luo 罗宇宁	Beijing Institute of Technology 北京理工大学	Research on Multispectral Infrared Detectors based on Colloidal Quantum Dot	Oral
16:45-16:55	Yimei Tan 谭伊玫	Beijing Institute of Technology 北京理工大学	Megapixel Colloidal Quantum-dot Mid-wave Infrared Focal Plane Array Imagers	Oral
18:00	Dinner			

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Session 13: Optical Field Manipulation and Its Applications / 专题 13: 光场调控及应用 Meeting Room 7

Time	Speaker	Affiliation	Title	Type
Chair: Chao Liu 刘超 Institute of Optics and Electronics, CAS 中国科学院光电技术研究所				
13:30-13:50	Xiangping Li 李向平	Jinan University 暨南大学	Metasurface from polarization to topological texture manipulation	Keynote
13:50-14:05	Ze Zhang 张泽	University of Aerospace Information 空天信息大学	Optical Pin Beam and Its Generalized Application Technology	Keynote
14:05-14:20	Zheqiang Zhong 钟哲强	Sichuan University 四川大学	Research on Atmospheric Turbulence Detection and Optical Field Recognition Based on Deep Learning	Invited
14:20-14:35	Youling Chen 陈幼玲	Institute of Semiconductors, CAS 中国科学院半导体研究所	Nanoparticle detection and unidirectional light emission based on WGM microcavities	Invited
14:35-14:50	Lingling Huang 黄玲玲	Beijing Institute of Technology 北京理工大学	Fundamental Physics and Functional Applications based on Metasurfaces	Invited
14:50-15:05	Wen Chen 陈文	East China Normal University 华东师范大学	Extreme nanophotonics: from molecular optomechanical upconversion to intelligent spectral characterization	Invited
15:05-15:20	Jiajun Wang 王佳俊	Fudan University 复旦大学	Meron Spin Textures in Momentum Space Spawning from Bound States in the Continuum	Invited
15:20-15:35	Meng Xiao 肖孟	Wuhan University 武汉大学	Finite-Barrier Bound States and Flat Bands Enabled by p-Orbitals	Invited
15:35-15:50	Coffee Break			
Chair: Xuewen Fu 付学文 Nankai University 南开大学				
15:50-16:10	Chao Liu 刘超	Institute of Optics and Electronics, CAS 中国科学院光电技术研究所	Research on Key Technologies of High-Availability Satellite-Ground Laser Communication	Keynote
16:10-16:25	Guixin Li 李贵新	Southern University of Science and Technology 南方科技大学	Light Field Manipulation with Nonlinear Optical Metasurfaces	Invited
16:25-16:40	Xuewen Fu 付学文	Nankai University 南开大学	Ultrafast electron microscopy of near-field dynamics in chiral metasurface	Invited
16:40-16:55	Chaoyang Zhang 张朝阳	Xi'an Jiaotong University 西安交通大学	All-optically Reconfigurable Photonic Lattices via Atomic Coherence	Invited
16:55-17:10	Yuanjie Yang 杨元杰	University of Electronic Science and Technology of China 电子科技大学	Generation of novel vortex beams and their applications in optical manipulation	Invited
17:10-17:25	Wange Song 宋万鸽	Nanjing University 南京大学	Artificial gauge fields on photonic chips	Invited
17:25-17:40	Xinzhong Li 李新忠	Henan University of Science and Technology 河南科技大学	Multidimensional Particles Manipulation via OAM Beam	Invited
17:40-17:55	Yihao Yang 杨怡豪	Zhejiang University 浙江大学	Time Synthetic Dimensions: From Photonic Simulation to Photonic Neural Networks	Invited
17:55-18:10	Sicen Tao 陶思岑	Peking University 北京大学	Ergodic polariton modes with sub-nanoscale localization in hyperbolic optical microcavities	Oral
18:10	Dinner			

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Session 13: Optical Field Manipulation and Its Applications / 专题 13: 光场调控及应用 Meeting Room 7

Time	Speaker	Affiliation	Title	Type
Chair: Zhenglong Zhang 张正龙 Shaanxi Normal University 陕西师范大学				
9:00-9:20	Chunqing Gao 高春清	Beijing Institute of Technology 北京理工大学	Vortex beams generated from non-planar ring oscillators	Keynote
9:20-9:40	Cheng Zhang 张诚	Huazhong University of Science and Technology 华中科技大学	Multifunctional Imaging and Displaying enabled by Optical Metasurfaces	Keynote
9:40-9:55	Wenjie Wan 王文杰	Shanghai Jiao Tong University 上海交通大学	On-chip Mid-infrared Sensing without Mid-Infrared Photons	Invited
9:55-10:10	Yuanlin Zheng 郑远林	Shanghai Jiao Tong University 上海交通大学	Enhanced Nonlinear Photonics in Thin-film Lithium Niobate Cavities	Invited
10:10-10:25	Churong Pan 潘楚荣	National University of Defense Technology 国防科技大学	All-optical controlled multichannel nonlinear holography in an atomic vapor	Invited
10:25-10:40	Shiyao Fu 付时尧	Beijing Institute of Technology 北京理工大学	Intelligent tailoring of high-dimensional structured beams	Invited
10:40-11:00	Coffee Break			
Chair: Wenjie Wan 王文杰 Shanghai Jiao Tong University 上海交通大学				
11:00-11:15	Zhenglong Zhang 张正龙	Shaanxi Normal University 陕西师范大学	Ultrafast luminescence of doped Re^{3+} by plasmonic nanocavity	Invited
11:15-11:30	Boxin Luo 罗伯新	Shanghai Fenchuang Information Technology Co., Ltd. 上海芬创信息科技有限公司	Photroland – Enabling Advanced Optical Field Modulation with Precision	Invited
11:30-11:45	Zhihan Zhu 朱智涵	Harbin University of Science and Technology 哈尔滨理工大学	Tunable Structured Laser Over Full Spatial Spectrum	Invited
11:45-12:00	Limin Jin 金立敏	Harbin Institute of Technology, Shenzhen 哈尔滨工业大学 (深圳)	Ln^{3+} -based heterogenous photonic integration and their applications	Invited
12:00-12:15	Chengliang Zhao 赵承良	Soochow University 苏州大学	Tailoring Coherence for Dynamic Sensing	Invited
12:15-12:30	Chuanzhao Li 李传召	Ludong University 鲁东大学	Polarization-Resolved Spectroscopic Characterization and Ultrafast Dynamics in Two-Dimensional Layer	Invited
12:15-13:30	Lunch			

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Session 14: Integrated Photonics and Photonic Computing / 专题 14: 集成光子与光子计算 Meeting Room 8

Time	Speaker	Affiliation	Title	Type
Chair: Jinping He 何晋平 Nanjing Institute of Astronomical Optics & Technology, CAS 中国科学院南京天文光学技术研究所				
13:30-13:45	Yan Yang 杨妍	Institute of Microelectronics, CAS 中国科学院微电子研究所	Si photonic integration technology and platform for OCI	Invited
13:45-14:00	Zongquan Zhou 周宗权	University of Science and Technology of China 中国科学技术大学	Efficient integrated quantum memory for light	Invited
14:00-14:15	Jiaxiang Zhang 张加祥	Shanghai Institute of Microsystem and Information Technology, CAS 中国科学院上海微系统与信息技术研究所	Large-scale hybrid integrated optical quantum devices and chips	Invited
14:15-14:30	Cheng Wang 王成	ShanghaiTech University 上海科技大学	Deep photonic reservoir computing AI processor and applications	Invited
14:30-14:45	Han Zhang 张晗	Shenzhen University 深圳大学	Ultrafast laser and photonic intelligent computing	Invited
14:45-15:00	Qun Ren 任群	Tianjin University 天津大学	Quantization of Maxwell's Equations and Terahertz Optical Quantum Computing	Invited
15:00-15:15	Fang Wei 魏芳	Zhangjiang Laboratory 张江实验室	Application of Silicon Photonic Devices in Low-Earth Orbit Satellite Internet	Invited
15:15-15:30	Zhouyang Pan 潘洲阳	Nanjing University of Aeronautics and Astronautics 南京航空航天大学	Large-scale integrated optoelectronic chaos for machine learning acceleration	Invited
15:30-15:50	Coffee Break			
Chair: Jijun Feng 冯吉军 University of Shanghai for Science and Technology 上海理工大学				
15:50-16:05	Jinping He 何晋平	Nanjing Institute of Astronomical Optics & Technology, CAS 中国科学院南京天文光学技术研究所	Progress of high resolution integrated photonic spectrograph for astronomical observation	Invited
16:05-16:20	Kan Wu 吴侃	Shanghai Jiao Tong University 上海交通大学	Recent progress on integrated gain and mode-locked lasers based on erbium-doped lithium niobate	Invited
16:20-16:35	Zejie Yu 俞泽杰	Zhejiang University 浙江大学	Strong second-order nonlinear wavelength conversion in thin-film lithium niobate/tantalate	Invited
16:35-16:50	Jiabin Shen 沈佳斌	Fudan University 复旦大学	Elemental Phase-Change Materials and Devices for Integrated Photonics	Invited
16:50-17:05	An He 何安	Soochow University 苏州大学	Integrated III-V Lasers with Silicon Photonics	Invited
17:05-17:20	Zhiyan Wang 汪芷砚	Peking University 北京大学	All-van der Waals microcavities for ultralow-loss nonlinear photonics	Invited
17:20-17:35	Guixiang Chen 陈贵祥	Nanjing University of Science and Technology 南京理工大学	High-extinction-ratio visible-light thermo-optic switch based on two-stage mode management	Invited
18:00	Coffee Break			

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Session 15: Topological Photonics and Non-Hermitian Optics / 专题 15: 拓扑光子学与非厄米光学 Meeting Room 6

Time	Speaker	Affiliation	Title	Type
Chair: Yiming Pan 潘义明 ShanghaiTech University 上海科技大学				
13:30-13:50	Dawei Wang 王大伟	Zhejiang University 浙江大学	Realizing the Haldane Model in Thermal Atoms	Keynote
13:50-14:10	Chao Peng 彭超	Peking University 北京大学	Collective oscillation in photonic crystal slabs	Keynote
14:10-14:30	Lei Shi 石磊	Fudan University 复旦大学	Towards Topological Fields in Liquid-Surface Waves: Generation and Applications	Keynote
14:30-14:45	Luqi Yuan 袁璐琦	Shanghai Jiao Tong University 上海交通大学	Non-Hermitian topology and non-Abelian gauge fields with synthetic frequency dimension	Invited
14:45-15:00	Xulin Zhang 张旭霖	Jilin University 吉林大学	Reconfigurable non-Abelian braiding in photonic waveguides	Invited
15:00-15:15	Daohong Song 宋道红	Nankai University 南开大学	Quadratic Band Touching and Nontrivial Winding Reveal Generalized Angular Momentum Conservation	Invited
15:15-15:30	Haitan Xu 徐海潭	Nanjing University 南京大学	Topological dynamics and sensing with exceptional points	Invited
15:30-15:50	Coffee Break			
Chair: Luqi Yuan 袁璐琦 Shanghai Jiao Tong University 上海交通大学				
15:50-16:10	Bole Zhang 张柏乐	Nanyang Technological University 南洋理工大学	Topological Physics with Light, Sound, and Machine Learning	Keynote
16:10-16:30	Ce Shang 尚策	Aerospace Information Research Institute, CAS 中国科学院空天信息创新研究院	Topological polaritons in Metamaterial	Keynote
16:30-16:50	Peng Xue, Kunkun Wang 薛鹏、王坤坤	Beijing Computational Science Research Center / Anhui University 北京计算科学研究中心 / 安徽大学	Investigating the Topology of Higher-Order Exceptional Points with Photons	Keynote
16:50-17:05	Yiming Pan 潘义明	ShanghaiTech University 上海科技大学	Self-balanced Bloch oscillations in momentum k-gap engineering	Invited
17:05-17:20	Haoran Xue 薛昊冉	The Chinese University of Hong Kong 香港中文大学	Three-dimensional valley-contrasting physics	Invited
17:15-17:30	Shiqi Xia 夏士齐	Nankai University 南开大学	Nonlinear Rewinding of Complex Bands in a Non-Hermitian Floquet Frequency Dimension	Invited
17:30-17:45	Wenzhe Liu 刘文哲	Fudan University 复旦大学	Connection between two fields: bound states in the continuum and topological nodal chains	Invited
17:45-18:00	Minye Yang 杨旻晔	Northwestern Polytechnical University 西北工业大学	Breaking the sensitivity-noise trade-off of exceptional point sensing	Invited
18:00-18:10	Zihe An 安子詠	Tsinghua University 清华大学	Observation of a single-mode exceptional point	Oral
18:10-18:20	Jialu Mu 穆嘉璐	Hunan University 湖南大学	Spatial Kramers degeneracy	Oral
18:20	Dinner			

Poster List

The 3rd International Conference
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P2	Nonlinear tuning of multiple topological edge states in photovoltaic photonic lattices Ruichang Chen 陈瑞昌 Shandong University 山东大学
P3	Observation of First-order and Second-order topological insulators in Photonic Martini Lattices Weizhao Cheng 程炜钊 Shandong University 山东大学
P4	Compact light-induced thermoelastic sensor for ppb-level C ₂ H ₂ detection exploiting a toroidal multi-pass cell Yashan Fan 樊亚杉 Taiyuan University of Science and Technology 太原科技大学
P5	Period-tripling route to chaos of soliton molecules in a mode-locked fiber laser Wenjie Feng 冯文杰 Shaanxi Normal University 陕西师范大学
P6	Broadband Up-Conversion Mid-Infrared Time-Stretch Spectroscopy Sen Geng 耿森 East China Normal University 华东师范大学
P7	Optical frequency comb Zhen Hu 胡振 Hainan Institute of East China Normal University 华东师范大学海南研究院
P8	Seeing Through the Surface: Pinpointing Defects-A New Breakthrough Non-Destructive Testing of Composite Materials Junke Huang 黄军科 East China Normal University 华东师范大学
P9	States evolution induced by variation of intracavity modulation depth in ultrafast fiber lasers Hongbo Jiang 江鸿博 Harbin Engineering University 哈尔滨工程大学
P10	CW laser-assisted splitting of SiC wafer based on modified layer by picosecond laser Lu Jiang 姜璐 Institute of Semiconductors, CAS 中国科学院半导体研究所
P11	Adaptive Real-Time Magnetic Field Tracking beyond Prior Waveform Constraints Xiaofeng Jin 金晓峰 Hangzhou Dianzi University 杭州电子科技大学
P12	Femtosecond laser - plasma grating molecular fingerprint recognition technology Haoyu Jin 靳昊宇 East China Normal University 华东师范大学
P13	Integrated Dual-comb spectrometer and its applications Xutian Jing 靖绪天 East China Normal University 华东师范大学
P14	A multi-distance laser-induced breakdown spectroscopy data classification method based on deep convolutional neural network and spectral sample weight optimization Luning Li 李鲁宁 Shanghai Institute of Technical Physics, CAS 中国科学院上海技术物理研究所

P15	Control of Non-Hermitian Topological Physics Jian Li 李健 Chongqing University of Posts and Telecommunications 重庆邮电大学
P16	Deep metric learning framework combined with Gramian angular difference field image generation for Raman spectra classification based on a handheld Raman spectrometer Shiwen Li 李诗文 East China Normal University 华东师范大学
P17	Localized Lead-Chelating Insulator Bottom Contact for Efficient and Stable p-i-n Perovskite Solar Cells Ying Li 李颖 Hunan Normal University 湖南师范大学
P18	Tunable Composite-Dimensional Hong-Ou-Mandel Interference for Stable and Accurate 3D Positioning Yongqiang Li 李勇强 Hunan Normal University 湖南师范大学
P19	Rapid and Precise Distance Measurement Using Balanced Cross-Correlation Yuanhao Li 李元浩 East China Normal University 华东师范大学
P20	Exceptional Point-enhanced Rydberg Atomic Electrometers Chao Liang 梁超 Beijing Tsinghua Institute for Frontier Interdisciplinary Innovation 北京清华前沿交叉创新研究院
P21	Gradient Descent-Assisted Monochromatization for Broadband Coherent Diffractive Imaging Bo Liu 刘波 National University of Defense Technology 国防科技大学理学院
P22	Quantum excitation transfer in bosonic networks: a bipartite-graph framework Cheng Liu 刘诚 Hunan Normal University 湖南师范大学
P23	Sub-100 fs Vortex Beams Generated from a Yb:CALGO Lase Jiandong Liu 刘建东 East China Normal University 华东师范大学
P24	Precise Terahertz Distance Measurement Enabled by Electro-optic Dual-combs Sinan Tao 陶思楠 University of Shanghai for Science and Technology 上海理工大学
P25	Broadband mid-infrared two-photon computational imaging Huijie Ma 马惠洁 East China Normal University 华东师范大学
P26	Experimental Study on Femtosecond laser-assisted Ablation and Polishing of Diamond Components Pan Ma 马盼 Jilin University 吉林大学
P27	Tunable optical nonreciprocity in double-cavity optomechanical system with nonreciprocal coupling Mian Mao 毛冕 Hunan Normal University 湖南师范大学
P28	All-optical controlled multichannel nonlinear holography in an atomic vapor Churong Pan 潘楚荣 National University of Defense Technology 国防科技大学
P29	Dynamic Evolution of Nyquist-pulse solitons from a mode-locked fiber oscillator Ziyi Pu 蒲子怡 Institute of Semiconductors, CAS 中国科学院半导体研究所
P30	Mpemba effect caused by anomalous heat conduction in a quantum dot system Yufeng Su 苏宇峰 Hunan Normal University 湖南师范大学

P31	Mid-Infrared Single-Photon Upconversion Spectroscopy Ben Sun 孙奔 East China Normal University 华东师范大学
P32	Megapixel Colloidal Quantum-dot Mid-wave Infrared Focal Plane Array Imagers Yimei Tan 谭伊玫 Beijing Institute of Technology 北京理工大学
P33	Filament induced breakdown spectroscopy with enhanced excitations from plasma gratings Enlai Wan 万恩来 East China Normal University 华东师范大学
P34	Stochastic collapse and recovery of optical solitons in harmonic mode-locked lasers under pump perturbations Benhai Wang 王本海 Shanghai Institute of Optics and Fine Mechanics, CAS 上海光学精密机械研究所
P35	Generation and characterization of ultrashort isolated attosecond pulses Jiacan Wang 王家灿 National University of Defense Technology 国防科技大学理学院
P36	Manipulating Topological Polaritons in Optomechanical Ladders Jiakang Wu 吴加康 Hunan Normal University 湖南师范大学
P37	Safeguarding quantum time synchronization networks with franson interference: picosecond-level detection of intercept-resend delay attacks Zhiguang Xia 夏志广 National Time Service Center, CAS 中国科学院国家授时中心
P38	High-efficiency single-photon source above the loss-tolerant threshold for efficient LOQC Mochi Xu 徐莫迟 University of Science and Technology of China 中国科学技术大学
P39	Simultaneous ground-state cooling of two levitated nanoparticles by coherent scattering Yi Xu 徐毅 Hunan Normal University 湖南师范大学
P40	A CMOS-Compatible 2.5D Silicon Photonic-Electronic Integrated 4×4 Optical Switch for Data Center Interconnects Gang Yang 杨刚 Institute of Mechanics, Chinese Academy of Sciences 中国科学院微电子研究所
P41	Ultrafast laser-induced refractive index tuning inside GeSbSNa glasses for mid-IR applications Heng Yao 姚恒 Ningbo Univeristy 宁波大学
P42	Sensing Based on Quantum Correlation of Photons in the Weak Nonlinear Regime Ziqiang Yin 尹子强 Hunan Normal University 湖南师范大学
P43	Effect of Macropixel Resolution on Adaptive Wavefront Shaping for Laser Control in Multimode Fibers Miaomiao Yuan 袁苗苗, Yang Liu 刘阳, Xiaosheng Xiao 肖晓晟 Beijing University of Posts and Telecommunications 北京邮电大学
P44	Multi-differential Parallel Confocal Three-dimensional Measurement Axial Range Expansion Method Tao Yuan 袁涛 East China Normal University 华东师范大学
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Abstracts

The 3rd International Conference
on Ultrafast Science and Quantum Sensing



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Introduction of Sponsors

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Introduction of Technical Sponsors

Ultrafast Science:

Ultrafast Science 创刊于 2021 年 6 月，影响因子 9.9，Q1 区、中国科技期刊卓越行动计划高起点新刊、Science Partner Journal，双月刊。主编龚旗煌院士，由中国科学院主管、中国科学院西安光学精密机械研究所主办。ESCI、EI、Scopus、Inspec、DOAJ、ADS、CNKI Scholar 等数据库收录。报道范围涵盖阿秒光源、阿秒物理、超快激光和应用、超快成像、超快光谱、超快诊断、超快材料和探测器、超快太赫兹光子、超快电子、超快化学物理等。

《计测技术》 刊:

《计测技术》作为计量测试领域的权威期刊，创刊于 1958 年，由聂荣臻元帅于 1987 年题写刊名。期刊由中国航空工业集团公司主管、航空工业北京长城计量测试技术研究所主办，面向国内外公开发表。

自创办以来，期刊始终秉承“科技要发展，计量须先行”的初心。在宣传计量测试新技术、新方法、新成果，促进技术交流和应用等方面发挥重要的作用。

为紧跟科研前沿，近期期刊开设了“精密测量新技术”“量子精密测量、量子计量与量子传感技术”“传感器技术”“超快光学测量技术”等特色栏目，特邀行业顶尖专家组建编委团队，持续刊发高水平研究成果。

Introduction of Sponsors

上海朗研光电科技有限公司：

上海朗研光电科技有限公司是国内首批研发和生产工业级超快光纤种子源、飞秒和皮秒光纤激光器、灵敏探测器的一家创新型高科技公司，已连续九年被认定为上海市高新技术企业。公司拥有高度专业化的研发团队，其中 70% 以上为具有硕士以上学位的专业人才。多项品获国家权威部门的高新技术成果认定。已申请发明、实用新型专利 150 余项；已授权达 90 余项，其中发明专利 60 余项。公司先后承担了科技部重大仪器专项、重点研发计划专项及上海市科技企业创新基金、科技启明星、国际科技合作等多个项目。先后荣获 2018 年度中国激光行业贡献奖“工业激光器创新贡献奖”、2021 年上海产学研合作优秀项目奖“一等奖”、2022 年度红光奖“超快激光器创新奖”等。朗研光电将继续秉承“专而精”的匠人精神，为科研和工业客户提供服务，打造国际知名的超快激光品牌。

深圳市麓邦技术有限公司：

深圳市麓邦技术有限公司（简称“麓邦公司”）创立于 2018 年，专注于光学元件、光学模组、光学系统与光学仪器的研发、生产和销售，致力于为光学领域科研人员提供更高端、更精准、更前沿的综合产品和解决方案，是国家级专精特新“小巨人”企业。麓邦公司坚持以成就客户为中心、与用户共成长，数年来已服务 200 余所高校及科研院所、300 余家创新型企业的 20000 多名科研人员。

上海芬创信息科技有限公司：

上海芬创信息科技有限公司成立于 2004 年，总部位于上海，专注于精密光学、精密定位和微振动隔离的自主创新，致力成为中国“光”装备行业核心元件领导品牌。

芬创科技以“心商业”（P-StoBtoC）模式和“5 得”质量管理模式，践行“实干、担当、创变、成长”的核心价值观，并通过 DPSI 产学研协同创新模式，已发展成为智能制造先进光电子领域的微纳光学零部件一站式供应商，主营产品位居细分市场前三。

芬创科技已荣获国家高新技术企业、国家级专精特新“小巨人”企业等多项荣誉。公司拥有 3 个营销中心、3 个研发技术服务中心、3 个制造基地，产品涵盖核心光学元件与系统、精密定位组件、微振动隔离方案等，广泛应用于微电子、精密加工、生物医疗等多个领域。

广东原点智能技术有限公司：

广东原点智能技术有限公司创立于 2015 年，聚焦“工业母机”的“大脑”——五轴及其以上多轴联动数控系统的研发、生产和制造，并结合数控系统和工业软件提供以激光数控机床等为核心装备的智能工厂解决方案。行业应用覆盖超硬刀具加工行业、汽车行业、航空航天行业、3C 行业等。公司拥有广东省工程技术研究中心、广东省制造业创新中心两大省级创新平台，并与中科院宁波材料所共建超快激光加工联合实验室，公司拥有授权专利超 210 项，其中发明专利 50 项，多项核心技术达到“国际先进”水平，先后获得国家高新技术企业、广东省智能制造试点示范企业、细分行业龙头企业、制造业隐形冠军、国家知识产权优势企业、国家专精特新“小巨人”等荣誉。

山东华光光子股份有限公司：

山东华光光子股份有限公司（简称“华光光电”）成立于 1999 年，总部位于济南，是深耕半导体激光领域的国家级高新技术企业。公司依托济南、潍坊两大研发生产基地，构建了从外延设计、芯片制备到器件封装的全链条自主可控体系，专注于半导体激光外延片，激光巴条芯片，单芯封装激光器，光纤耦合封装激光器，宏通道水冷、微通道水冷、传导冷却半导体激光器叠阵、半导体激光侧泵模块等产品的研发与产业化，产品波长覆盖紫光至近红外波段，广泛应用于测量传感、智能制造、医疗健康、光刻印刷等高端领域。

作为行业技术标杆，华光光电是国内少数实现半导体激光器核心知识产权商业化应用的企业之一。公司累计申请专利超 1000 项，授权专利 390 余项，外延与芯片领域专利数量居国内上游企业前列，并主导制定 1 项国际标准、7 项国家标准及 13 项行业标准，是工信部知识产权运用试点企业。公司依托 1 个国家企业技术中心、6 个省级创新平台，承担国家级重点项目 15 项、省部级项目 40 项，累计 57 项成果获国际 / 国内领先技术鉴定。

今浩仪器：

今浩仪器成立于 2014 年，总部位于深圳市，是一家专注于为全国高校、科研机构及高新技术企业提供高端科学仪器设备的技术服务商，公司深耕半导体、新材料、新能源等领域，致力于为科研创新与产业升级提供先进的制备仪器、分析仪器及系统性解决方案，我司核心业务领域，聚焦半导体制造工艺、新型材料研发及新能源技术，提供涵盖材料合成、样品制备、性能测试、工艺优化等环节的全流程仪器设备支持。拥有专业的技术服务团队，具备丰富的行业经验，可为客户提供仪器选型、操作培训、应用方案设计等全流程服务。与欧美、日韩等国际顶尖仪器厂商建立战略合作，同时整合国内优质供应链，确保设备性能与成本优势。

在深圳、北京，上海，成都等地设立服务中心，提供 24 小时快速技术响应，保障设备高效运行与科研进度。公司秉承“技术驱动创新，服务创造价值”的理念，持续深化与高校、科研机构及产业链伙伴的合作，助力中国半导体、新能源及新材料领域的技术突破与产业化进程，致力于成为科研仪器服务领域的标杆企业。

南智先进光电集成技术研究院有限公司：

南智先进光电集成技术研究院有限公司（简称“南智光电”）成立于 2018 年 4 月，由南京江北新区、江苏产研院与南京大学及祝世宁院士团队共建，系江苏省光电技术创新中心主要建设单位和江苏产研院专业所。

南智光电主要开展光电集成芯片器件定制开发、中试验证和晶圆流片等业务，已建成国内首个“薄膜铌酸锂 +X”光电芯片产线，拥有高等级洁净间 5000 平米，微纳加工、检测、表征设备 70 多台套，具备光电芯片全链条生产制造能力。2024 年 6 月，南智光电在国内率先发布晶圆级铌酸锂光子芯片 PDK，同年 12 月成功实现 8 英寸铌酸锂晶圆流片，成为国内首批具有大尺寸铌酸锂光子芯片标准化量产能力的机构，2025 年 5 月发布国内首个光子专用大模型 OptoChat AI，在国内率先形成 AI 赋能光学器件仿真设计、工艺验证及良率提升能力。

苏州睿科晶创光电科技有限公司：

苏州睿科晶创光电科技有限公司（CTL Photonics Inc.，简称睿科晶创）是一家集研发、制造、销售于一体，致力于 PPLN 晶体芯片和器件开发的高科技公司。公司的主要产品从核心极化晶体制备工艺出发，开发和生产：PPLN 晶体芯片、PPLN 波导芯片、基于 PPLN 芯片的绿色激光器、激光白光模组等关键材料及器件，应用于大气探测、全光波长转换、激光显示、生物医学、科学研究等领域。

北京卓立汉光仪器有限公司：

北京卓立汉光（官网：www.zolix.com.cn）1999年深耕光电领域，是国家专精特新“小巨人”、国家级高新技术企业，获北京市企业技术中心认证，以“创新光电技术，推动科技进步”为使命，践行“卓立现在、着眼未来”初心。技术优势凸显：核心技术覆盖光谱优化、拉曼分析、精密控制，斩获国家技术发明奖二等奖；设博士后工作站引聚人才，构建“预研-突破-迭代”研发体系，跨学科团队持续转化技术成果。产品与行业地位领先：三大核心产品赋能多领域——光谱测量系统助力高校科研，高光谱技术服务刑侦与民生，精密光机系统支撑激光制造；以“可靠、易用、精致、独创”为产品内核，服务网络高效响应需求，正朝着“光电科技引领者，世界品牌制造商”愿景迈进，为光电产业高质量发展赋能。

深圳市单色科技有限公司：

深圳市单色科技有限公司总部位于深圳市光明区，公司致力于飞秒激光微加工技术研究及应用，包括设备研发、生产、销售及测试、加工业务。为生物医疗、半导体微电子、航空航天等行业内诸多难加工材料提供全方位的极端（极高精度、极小尺寸、极大数量、极快效率）加工解决方案，已得到广泛应用和认可。

公司产品：星旋系列（旗舰五轴加工中心，飞秒激光异形微孔成型）；星轨系列（飞秒激光精密切割设备）；星蚀系列（飞秒激光微结构刻蚀设备）；星刃系列（飞秒激光微细管材切割设备）；星云系列（飞秒激光纳米结构多维研发设备）。

深圳市铭创光电有限公司：

深圳市铭创光电有限公司成立于2012年，是一家集研发、生产、销售于一体的综合性光纤产品服务商。公司凭借深厚的技术底蕴与稳健的发展态势，获评国家级高新技术企业、深圳市专精特新企业、创新型中小企业等多项荣誉资质，并已通过ISO9001:2015质量管理体系认证及ISO14001:2015环境管理体系认证。

依托完善的研发生产体系，公司可提供涵盖各种波长的保偏光纤器件、高功率光纤器件、短波长光纤器件、拉锥型光纤器件等光无源器件，以及光纤放大器、光纤激光器、激光光源等有源设备，满足多元化应用需求。

光腾激光技术（德清）有限公司：

光腾激光技术（德清）有限公司是一家专注于高性能半导体激光器及核心器部件研发与生产的高科技企业，研发团队源于北京航空航天大学院士团队，全力聚焦于解决“硬卡替”难题，特别是致力于高性能激光光源及解决方案的研发、生产与销售工作，力求打破技术瓶颈，实现关键领域的自主可控。依托自主构建的五大技术平台——半导体芯片封装平台、核心器部件研发平台、激光器系统集成平台、高精密驱动控制研发平台及产品性能测试平台，公司实现了从芯片设计到系统集成的全链条技术闭环，确保产品在功率稳定性、波长精度及可靠性等核心指标上达到先进水平。公司聚焦量子科技、生物医疗、激光感测及工业装备等前沿市场，坚持以应用场景驱动研发，深度对接行业需求，为客户提供定制化激光技术解决方案。未来，光腾激光将持续强化技术壁垒，推动国产高端半导体激光器在重大领域的产业化突破，以创新之力赋能全球光电产业升级。

在光纤光学领域，扎根光纤技术的5大主要应用领域（光纤激光，光纤传感，电信通信，数据通信，科学通信），挖掘国际领先技术的高端光电器件、高端设备和仪表等优秀产品资源，结合自主研发产品，希望构建领先的高端产品解决方案，引领和创造国内行业客户需求，助力中国光技术领域的科技水平提升，助力国家重大科技项目，助力产业化发展！

武汉中科锐择光电科技有限公司：

武汉中科锐择光电科技有限公司，成立于 2016 年，公司总部座落于中国光谷武汉邮科院内，是一家集光器件、光模块及相关特种装备等产品研究、开发和制造于一体。技术优势和产品研发制造主要集中在“传感应用”，“激光应用”，“卫星应用”以及“量子应用”领域。致力于专网特种器件产品及衍生产品的一站式供应及解决方案，产品广泛用于国防、航空航天、海底探测、高端装备制造、油气资源勘探等行业。

星朗浩宇光电科技（上海）有限公司：

Liquid Instruments 公司位于澳大利亚，专注高精度科学测控仪器的研发，Liquid Instruments 通过基于 FPGA 的可编程硬件及先进的软件定义仪器技术开发核心产品 Moku 系列，包含：Moku：Delta、Moku：Pro、Moku：Lab 和 Moku：Go 四种不同性能配置的型号，将多个传统实验室设备（如示波器、频谱分析仪、锁相放大器和激光稳频器等）整合到一台设备中，专注于为用户提供高度集成、便携且功能强大的测试测量解决方案。

上海昊量光电设备有限公司 & 星朗浩宇光电科技（上海）有限公司是 Liquid Instruments 在中国区域的战略合作伙伴，负责此次展会的宣传、对接工作，同时负责中国区域的销售、售后服务工作，如您有任何需求或问题，欢迎垂询！

上海伯业生物科技有限公司：

上海伯业是一家专注于高端科研仪器领域的高科技公司，主营业务聚焦于光学成像领域，公司致力于各类高端及定制化光学成像解决方案的推广和服务，涵盖超分辨成像、共聚焦成像、双光子成像、无标记成像、全玻片扫描成像、散射光谱成像、物理光谱仪器、科学相机等成像硬件，以及反卷积、多维图像处理、病理图像解析等多类科学图像分析软件。公司成立至今，已为众多顶级科研机构和企业提供高质量的技术支持与创新解决方案，广受用户认可。

公司积极参与国产尖端技术的转化与开发项目，凭借专业的团队和丰富的行业经验，我们与多家细分行业的头部公司达成良好的合作关系，共同推动国产仪器研发、生产、应用落地的健康生态发展。

福建福晶科技股份有限公司：

福建福晶科技股份有限公司（CASTECH, Inc.）简称：福晶科技，1990 年由中科院福建物质结构研究所成立，2008 年于深交所上市（股票代码 002222）。

福晶科技以“光电行业发展的有力推动者”为公司使命，现已成为全球知名的 LBO 晶体、BBO 晶体、Nd:YVO₄ 晶体、超精密光学元件、衍射光学元件、高功率光隔离器、声光器件及电光器件的龙头厂商，公司产品广泛应用于激光、光通讯、AR/MR、生命科学、无人驾驶辅助、环境监测设备以及精密检测分析仪器等诸多工业领域。

福晶科技是首批入选的国家高新技术企业，是国家创新型企业，是国家企业技术中心。2018 年 LBO 产品获得工信部制造业单项冠军称号，2021 年 7 项检测指标获 CNAS 国家实验室标准认可。

上海闵壹光电技术有限公司：

公司位于“上海 - 闵行科创走廊”（上海交通大学闵行校区西门对面大零号湾科创园区），是致力于研发、生产和销售各类保偏 / 高功率光纤器件、特种光纤连接器以及配套光纤激光器、光纤传感器生产相关的独立制造商。

主要产品包括主要产品包括单 / 多模光纤连接器、保偏光纤跳线、光纤集束跳线、2D 光纤阵列、铌酸锂调制器、光纤滑环、真空馈通法兰、多芯光纤扇入扇出模块、保偏光纤、传能光纤，保偏 / 高功率熔融拉锥型和微光学器件（光分路器、波分复用器、光环行器、光隔离器、光衰减器、起偏器、偏振控制器、光开关、准直器、偏振分 / 合束器、相移器、偏振分 / 合束器、带通滤波器、光纤光栅、单 / 多斜面透镜镀膜光纤、光子晶体光纤处理和混合功能器件等）。

公司拥有专业的研发团队，可以根据客户需求设计定制产品，公司技术人员均从事光纤应用产品生产制造多年，具备一流的专业技术和经验，可以提供各种前期咨询服务；能定制加工各种规格器件、接头和其他特殊光纤产品，具有设计和提供完整的光纤产品解决方案的能力。

杭州玉之泉精密仪器有限公司：

杭州玉之泉精密仪器有限公司成立于 2022 年 12 月，汇聚了刘旭教授、匡翠方教授、李海峰教授等一批来自浙江大学光电科学与工程学院的科研骨干。成立至今，依托创始团队多年在光学领域的技术累积与核心攻关，玉之泉先后荣获国家科技型中小企业、国家高新技术企业、省级科技型中小企业、省级专精特新中小企业、种子独角兽企业、市级研发中心、省专精特新等多项荣誉。玉之泉团队自主研发的双光子三维激光直写光刻系统，可实现高自由度纳米级三维结构制造，最小特征尺寸可达 50nm，该技术荣获“2024 年中国光学学会科技创新奖特等奖”，并在 2023-2025 微纳制造优秀成果展中获评“优秀成果奖”。公司自主研发的紫外激光直写光刻系统，深度融合声光偏转技术、激光精密调控与闭环反馈微纳加工技术，可直接在基材上“书写”任意 250nm 线宽的二维 / 2.5 维微纳结构，该系统填补了国内在该类高精度微纳加工设备领域的技术空白，打破了欧美设备对该技术的长期垄断。此外，公司已成功将直写光刻技术拓展至多元化的精密制造场景，完成了硬脆体飞秒激光加工系统、公里级光纤光栅加工系统及生物体打印光刻系统的研发。这一系列成果标志着玉之泉正构建覆盖多材料、多尺度、多应用的微纳制造技术矩阵，持续拓宽其技术边界与产业赋能范围。

南京晶萃光学科技有限公司：

南京晶萃光学科技有限公司（简称“晶萃光学”，JCOPTIX）依托南京大学液晶与光子技术研究中心成立，是一家从事先进光学技术与产品研发、生产和销售的国家高新技术企业。晶萃光学致力于打造中国光学科研人自己的产品平台，为光学科研人提供液晶光子学元件、精密光学元件、光机械件、光纤组件、运动控制器件等光学产品和系统解决方案。晶萃光学商城 www.JCOPTIX.com 可查询所有上架产品，支持在线下单。晶萃光学将一直秉承“诚朴，奋进，创新，共赢”的价值观，尽心服务客户，倾心成就客户，为推进中国光学科研界的发展贡献一份力量。

南京拓展科技有限公司：

南京拓展科技有限公司创立于 1999 年，属高新技术企业。是专业从事恒温恒湿、生物安全、洁净净化、高精密控制、实验动物设施等特殊实验环境工程整体规划设计、施工安装、运行保障及科技研发为一体的高科技服务型企业。

成立 20 余年来，拓展科技精进不止，至善不息，服务于 31 个省市自治区，承建超 3000 个项目。合作伙伴涉及各大专业检测机构、政府、高校、科研机构及卫生医疗行业等。

我们专注为科技工作者提供更可靠、更安全、更高效、更适用的实验系统。

武汉红星杨科技有限公司：

OMTOOLS（光机工具）是红星杨控股旗下的子品牌，创立于 2013 年，是以光机电创新为基础，围绕精密光机电器件、光电子传感、机器视觉，光学成像等开展业务，致力于提供科学研究、企业研发生产所需光机电组件产品的一站式选购平台。

总部位于武汉光谷，拥有研发、生产、办公一体化的现代化办公大楼，同时在湖北十堰建有精密加工生产基地，北京、苏州、西安、深圳、长春、三亚设立完善的销售和售后服务体系，主营产品包含精密位移台、光学平台与隔振系统、光机械组件、光学元件及系统、光器件耦合及封测系统、成像系统、光电仪器等，产品应用覆盖光学制造检测、半导体光通信、激光及激光应用、生命科学成像、智能制造、现代农业、科学研究、医疗与生物医学等领域。

成都多谱光学科技有限公司：

成都多谱光学科技有限公司是一家专注于高端光电仪器研发与产业化的高新技术企业，承担国家重大科学仪器设备开发专项的成果转化任务，拥有多项专利及软著，通过 ISO9001 质量管理体系认证，已荣获“创新型中小企业”“四派人才企业”等多项权威认定。公司以光谱技术为核心，构建了覆盖探测器、激光器、精密光测量等领域的完整产品体系，技术指标行业领先，同时为广大光谱开发者提供了优质产品与专业技术支持。

公司致力于服务国家战略与前沿科技，其高端仪器与定制化解决方案已深度应用于量子光学、聚变能源、大科学装置等尖端科研与未来产业领域，承担多项国家级关键技术攻关项目，为核心装备研发与关键技术攻关提供重要支撑，以前沿技术工程化能力获得权威认可。秉承“技术创新、质量为本”的理念，多谱光学正持续推动光电技术的突破与产业化落地，致力于成为服务国家战略需求、支撑未来产业发展、具备核心竞争力与全球影响力的硬科技标杆企业。

光维（广东）科技有限公司：

光维（广东）科技有限公司是一家专注于光频梳精密测量仪器研发的高新技术企业，核心技术源于清华大学精密测试技术及仪器全国重点实验室的科技成果转化，于 2024 年成功引入清华大学知识产权增资入股，实现了深度的产学研融合。

公司已形成全链条自主研发能力，产品涵盖飞秒激光频率梳、双光绝对测距仪等核心设备；相关产品已应用于我国超高速动子精准测控系统、卫星载荷桁架精密变形检测、大量程空间分布式测距等重大任务，荣获中国计量测试学会科技进步一等奖、中国机械工业学会科技进步特等奖等多项荣誉。

光维科技致力于以飞秒光频梳技术驱动精密制造领域的革新与发展，打造国产高端精密测量仪器标杆，为客户提供精准、稳定、可溯源的计量“光尺”。

圣德科（上海）光通信有限公司

圣德科（上海）光通信有限公司成立于 2001 年 11 月 9 日，是由日本 Santec 株式会社全资控股的外商独资企业。公司总部位于中国（上海）自由贸易试验区，主要经营光测试设备、光学成像 / 传感、光器件及相关配套软件等。其产品包括 MEMS 可变光衰减器、波长锁定器等，在日本国内、欧美市场以及中国市场上享有很高的声誉。

福建科镭光电科技有限公司：

福建科镭光电科技有限公司是一家从事晶体、光学元件的设计、生产和销售的高科技企业，产品广泛应用于激光、光通讯、科研军事等领域。公司位于福建福州闽侯县南屿镇路政工业园，具备完善的晶体和光学生产线，拥有国际先进的光学检测设备和严格的质量管理体系，能够为客户提供良好的产品和技术支持。

自成立以来，公司本着持续创新的企业原则，不断致力于技术和生产工艺的改进，持续研发新产品，与国内外众多公司和院校建立了长期合作。公司目前拥有一批专业的光学技术人员，能够为光学生产提供先进的技术保证，并能根据客户的要求进行光学元件的定制设计。

上海复享光学股份有限公司：

复享光学是中国先进光谱技术领导者，是国家级专精特新“小巨人”企业。

上海复享光学股份有限公司自 2011 年成立以来，一直以技术创新为核心驱动力，致力于构建国际前沿的深度光谱技术平台。公司深耕于科学仪器、微纳制造与新型光电子器件等专业领域，深入探索光子学与人工智能的交叉融合，构建起从基础技术研究到高端产品开发、从核心模组制造到系统方案集成的全方位、多层次光学技术与服务体系，旨在为全球客户提供更高品质、更具竞争力的光学技术产品，是光学科技领域具有影响力的领军企业。

北京北埃特光电子技术有限责任公司：

北京北埃特光电子技术有限责任公司成立于 2001 年，一直从事光电子高技术产品的研究开发、技术引进和生产销售。长期与美国、波兰、荷兰等国的高技术公司合作，作为正式授权代理销售美国 InfraRed Associates 公司的液氮制冷探测器（典型型号 FTIR-16-1.0）、斯特林制冷红外探测器（制冷机 K508C 的 MTTF 可达到 30000 小时）；美国 ISDC 的 FPAS 飞秒激光脉冲光谱仪以及溯源于 NIST 的标准黑体源（典型型号 IR-564/301，温度范围 50-1200°C）；波兰 VIGO 公司的常温以及半导体制冷高速红外探测器（典型型号 UHSM-10.6，带宽可达 1.25GHz 以上）。公司技术团队具有深厚的高速红外探测与处理技术基础，能为客户提供先进的产品和优良的技术服务。敬请访问 www.bitpe.com 并联系索取详细资料。

山东越海通信科技股份有限公司：

山东越海通信科技股份有限公司，以深厚的技术底蕴和创新精神，汇聚保偏与高功率无源器件技术精英，匠心打造光无源器件 18 年，以激光行业细分应用领域、光纤通信领域为保持市场，光纤传感及生物医疗为市场重点开拓行业，重点挖掘新兴产品。我们以国际标准为尺，以 ISO9001 和 GJB 9001C-2017 认证为盾，承诺卓越品质，为国计民生贡献科技力量。

中芯热成科技(北京)有限责任公司:

中芯热成科技(北京)有限责任公司成立于2021年3月,是国内首家专注于红外量子点材料成像芯片领域的国家级高新技术企业,目前具备芯片基底制备、材料合成、芯片生产、芯片测试、整机装配、环境试验、系统测试等能力。

中芯热成研发中心占地2300余平方米,其中超净生产车间占地1500平方米配有百级、千级两个净化级别,拥有微纳米半导体光电器件设计、制造、测试、封装等专业生产设备及工艺实现条件,可独立完成短波及中波红外成像芯片制备封装测试等环节。自主研制开发的大面阵红外焦平面探测器,核心材料采用红外胶体量子点,尺寸在5-12纳米之间,具有可调带隙,颠覆传统块体半导体制备及加工工艺,可实现大面阵、高解析度、多波段红外探测及成像功能。材料通过液相合成、液相加工,具有硅基CMOS兼容的优势,为下一代半导体的跨越式发展提供了新机遇。

上海光织科技有限公司:

上海光织科技有限公司成立于2019年,是面向大模型、大数据、大算力互连需求的先进光连接方案制造商。公司位于上海市闵行区“大零号湾”科技创新策源地,是上海交通大学研究成果转化企业之一。公司中心团队来自于上海交大、华为、迅达等单位,具有丰富的研发、生产和运营经验。

公司建有6英寸光路板和4英寸三维光子互连芯片工艺线,空分复用光器件工艺线,以及完备的检测能力,拥有20余项主要发明专利,牵头相关国际标准的制订,具备独有的核心竞争力和行业影响力。

公司主要产品为高速刚性和柔性光路板、玻璃基三维光子互连芯片、空分复用器件,与算力芯片等集成后可为人工智能、云计算等领域大幅提高算力。相关产品填补了国内空白,处于国际先进水平,服务于国家重大战略需求,并销往美国、英国、日本等国家。

珠海博吉光电科技有限公司:

珠海博吉光电科技有限公司成立于2023年,服务于专用设备制造、超快精密激光设备等行业,提供测试及机器视觉、运动控制软件及算法等系统解决方案,隶属于珠海博杰股份(股票代码002975)旗下子公司。其在激光微细加工应用方面有超10年技术沉淀,已在消费电子行业批量应用,技术成熟稳定,团队有超5亿元大型设备头部企业交付经验。

公司设立了实验室,具有丰富的研发,涉及多种激光设备应用领域,并具备完善的检测能力。拥有20多项主要发明专利及软著测试,引领相关标准的制定,具备独特的核心竞争力与行业影响力。

公司核心产品系列涵盖了柔性OLED外形切割系统、OLED激光脱层剥离(LLO)设备以及超快激光陶瓷微细切割钻孔。这些创新产品在显示面板制造和精密加工领域具备显著的技术优势,能够为客户提供高精度、高效率的工艺解决方案,广泛应用于消费电子、半导体及新能源等行业的生产环节。

凌云光技术股份有限公司:

凌云光(股票代码:688400)以光技术创新为基础,围绕机器视觉与光纤光学开展业务。在光纤光学方向,1996年创业至今,与二十多家全球光电领域著名高科技公司合作,在中国做市场拓展、技术与产品推广、本地化服务支持等工作。专注于光纤激光、光纤传感、微纳光学、超快微加工、超高速光传输系统、集成光学、先进封装测试等诸多光纤细分应用领域,为广大用户提供软件模拟、核心光器件、测试仪表等高端产品解决方案。

山西创芯光电科技有限公司：

山西创芯光电科技有限公司是一家由中国科学院半导体研究所科研人员创办的高科技企业。公司立足于 III-V 族半导体技术，专注于收光器件、发光器件、光电系统及 IT 系统的研发与产业化。凭借深厚的科研实力 and 创新能力，公司业务已延伸至量子通信、航空航天、国土防御、低空安全、半导体加工及医疗美容等战略新兴领域。

公司持续拓展技术前沿，近期重点投入外腔半导体激光技术的研发，通过在现有芯片基础上增加外腔结构，实现可调谐、窄线宽的激光输出，该技术主要应用于量子通信、量子精密测量等高端领域，进一步提升公司在光电核心器件方面的综合竞争力。

通过整合中科院的科研优势和产业资源，公司不断突破技术创新，为客户提供领先的半导体器件及基于新型半导体器件的解决方案，助力各应用领域实现技术升级与转型。作为新一代信息技术、航空航天、新材料、量子科技等多领域交叉的创新型企业，山西创芯正致力于推动中国高科技产业的发展。

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