WESTLAKE INSTITUTE FOR OPTOELECTRONICS
西湖大学光电研究院

THE 1ST INTERNATIONAL CONFERENCE ON OPTOELECTRONIC INTEGRATION (COINT 2024)

第一届国际光电集成技术大会

PROGRAM

May 12-15, 2024

Fuyang • Hangzhou • China

ABOUT WIOE

Westlake Institute for Optoelectronics (WIOE) was officially established in December, 2022 following the signing ceremony between Westlake University and the People's Government of Fuyang District on October 25, 2022. Westlake Institute for Optoelectronics enjoys the independent status of a legal person. As an innovative engine, Westlake Institute for Optoelectronics lies in the Hangzhou Fuchun Bay New City, a verdant and vibrant land of water and mountains where industries thrive and revive pastoral Fuyang.

The Westlake Institute for Optoelectronics is a university-industry-government-finance partnership between Westlake University and the Fuyang District Government. As Westlake University's first independent research institute bolstered by the abundant industrial resources of Fuyang, WIOE leverages the university's exceptional talent and leading-edge disciplines to advance basic and applied research in integrated optoelectronics and build a flagship base for optoelectronic research, pilot testing, and industrialization, which integrates research, development, application, and commercialization, to serve the industry in Yangtze River Delta region and China.

The groundbreaking ceremony of Westlake Institute for Optoelectronics was launched on December 31, 2022. The first phase of the project encompasses a land area of approximately 4 ha in total, including 2.3 ha for research facilities and 1.6 ha for industrial purposes. The first phase is to be completed by the end of 2024.

FIRST PHASE LAND AREA	4 ha	RESEARCH FACILITIES	2.3 ha
INDUSTRIAL PURPOSES	1.6 ha	FIRST PHASE TO BE COMPLETED	End of 2024

CONTENTS

Notes

1. The latest conference program has been updated onto the conference website: https://www.coint2024.cn/
2. Please wear your representative card when entering the conference room. Please keep your voices down and set your mobile phone on mute during the conference.
3. Do not take photos or videos during the conference unless permitted by the Organizing Committee.
4. The Speakers are suggested to enter the conference room 15 min before their scheduled sessions to check their report files.
5. The Poster Authors or Coauthors are required to stand by their posters for the duration of their allocated session (14:50-15:30 on May 13) to answer questions and further discuss their work with attendees.
6. Please show your meal ticket at the entrance of the dining room. Lunch session will be 11:30-13:30, and dinner session will be 17:30-19:30.
7. The registration desk will be reserved to 11:00 am on May 15 for your consultation.
8. The invoice is expected to be emailed or mailed to the attendees before May 29.

https://www.coint2024.cn

Westlake Institute for Optoelectronics

Organizing Committee

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西湖大學 WESTLAKE UNIVERSITY

WIOE WESTLAKE INSTITUTE FOR OPTOELECTRONICS 西湖大学光电研究院

西湖大学光电研究院简介 ABOUT WIOE

西湖大学光电研究院于 2022 年 12 月正式成立，坐落在“山水相依、产城融合、现代气派、田园风光”的杭州富春湾新城，是由西湖大学与富阳区人民政府共建，具有独立法人资格的省级新型研发机构。

作为西湖大学首家独立科研派出机构，研究院聚焦和深耕包括通讯和计算在内的未来信息技术，打造国家和地方的产业技术和产业人才高地，充分发挥西湖大学独特的人才优势、国内外领先的学科实力、富阳区强大的资源，致力于开拓光电芯片在未来信息技术中的应用，打造从长三角辐射到全国的技术创新、产品中试及产业化基地，打通基础研究、技术开发、成果应用、产业应用的全链条。

值此光电研究院快速发展之际，我们诚挚地邀请海内外优秀学术人才加盟，共同把光电研究院建成一个具有国际影响力的科技创新基地。

岗位名称	岗位要求
研究团队负责人	1. 具有博士学位； 2. 学术水平和资历应达到担任国际知名高校助理教授或副教授职务的相应标准，或列入省级以上重大人才工程的高层次专业技术人才； 3. 承诺通过评选后全职加入光电研究院。
研究员 / 副研究员	1. 具有博士学位，且满足浙江省人力资源和社会保障厅相关文件对研究员 / 副研究员任职资历要求； 2. 具有良好的英文阅读、写作和口头表达能力，以主要作者身份在领域知名期刊发表过高水平学术论文； 3. 具备良好的沟通能力和团队协作能力。
助理研究员 / 博士后	1. 已获得或即将获得光学、电子、材料、物理、机械等相关专业博士学位（特别优秀者可放宽至硕士学位），有光电子器件设计与制备、微纳米加工仪器设备使用经历者优先考虑； 2. 具有良好的英文阅读、写作和口头表达能力，以第一作者身份发表过英文学术论文； 3. 具备良好的沟通能力和团队协作能力。
工程师	1. 硕士及以上学历，专业要求：光学工程、电子科学与技术、材料科学与工程、物理等； 2. 工作严谨，认真负责，具有扎实的专业基础； 3. 具有良好的英语水平（如阅读英文文献、撰写和回复英文邮件等）； 4. 具有良好的沟通能力和团队协作精神。




•光电研究院将提供有竞争力的薪酬待遇，具体标准视岗位和人才层次而定。符合条件的高层次人才可享受杭州市及富阳区人才安居相关政策，包括落户、购房 / 租房补贴、子女入学等。

•同时，光电研究院将参照国内外一流科研院所相应职位提供充足的科研启动经费。根据引进人才的实际科研工作需要，在实验室空间、团队配备等方面给予充分支持。

* 申请者请将个人简历发送至 hr@wioe.westlake.edu.cn。

微信扫码关注
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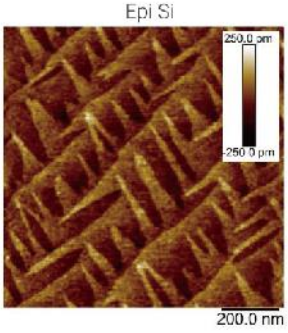
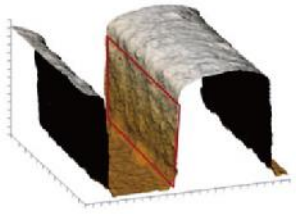
用于光电芯片工艺的表面表征测试平台

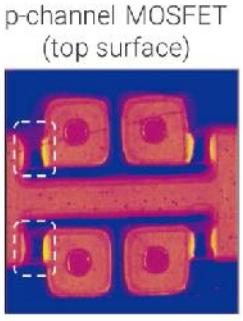
光电芯片制造过程中涉及各种薄膜和微结构的制备加工。这些表面结构的关键尺寸和微区理化特性需要专业的表征设备进行表征测试。布鲁克纳米表面部作为享誉全球的表面表征设备制造商，提供了包括原子力显微镜、白光干涉显微镜和纳米压痕仪在内的多种超精密检测设备，为光电芯片研发和量测部门提供了全面的超精密表面性质表征方法。

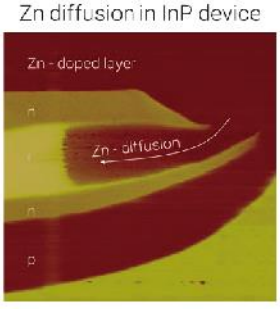
表面关键尺寸

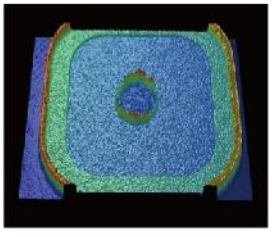


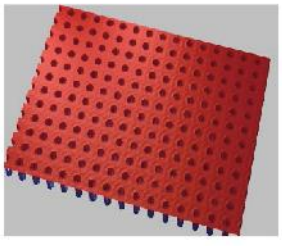


微区电性质

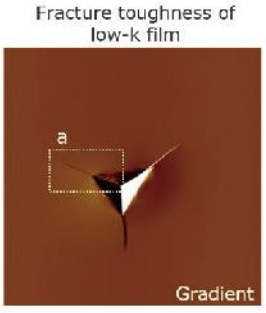


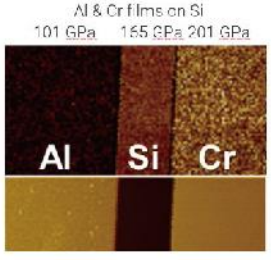






薄膜机械性能





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爱发科商贸(上海)有限公司，是一流的真空技术综合解决方案提供商。作为爱发科集团的全资子公司，成立于2006年7月，在中国大陆形成设备销售及售后服务的网络体系，不断优化爱发科在全国的客户服务据点分布，目前共设有13个服务网点，持续为客户提供完善的一体化服务。

业务范围

FPD and LiB production equipment

FPD与LiB制造设备

Semiconductor and Electronic device Production dquipment

半导体与电子制造设备

Components

真空配套部件

Industrial equipment

工业设备

Materials

材料

Analyzers, controllers, mask blanks, etc.

分析，控制，光罩掩膜设备等

研发方向

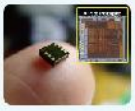
1、功率器件

- 针对SiC功率器件离子注入工艺开发
- 针对SiC功率器件刻蚀工艺开发
- 针对GaN功率器件刻蚀工艺开发

2、锂电池

- 复合集流体用蒸镀工艺开发
- Pre-Lithiation工艺开发

3、MEMS



- 针对VOx，PZT等材料的溅射艺开发
- 新型压力MEMS传感器溅射工艺开发

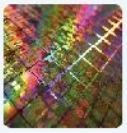
4、光学膜

- 针对光学膜的溅射工艺开发
- 针对VCSEL器件的离子注入工艺开发

5、R&D

- CV Li 蒸镀
- SME 溅射
- Ei 高真空蒸镀

6、半导体



- 针对3D NAND溅射工艺开发
- 针对DRAM溅射工艺开发
- 针对PCRAM溅射工艺开发

7、Display

- G2.5~G10.5溅射工艺开发
- 有机蒸镀工艺开发
- μ-OLED用溅射，CVD，刻蚀蒸镀工艺开发

8、射频通信器件

- RF-GaN刻蚀工艺开发
- RF-Filter溅射工艺开发

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- MEMS传感器
- VCSEL激光器
- 钙钛矿电池
- 5G通讯（SAW器件）
- 3D存储器
- 光学膜
- 硅基OLED/MicroLED显示
- 芯片封装
- 3D涂层
- 锂电池（纳米粉末包覆）
- 催化剂
- 生物医学仿生
- 荧光材料
- 有机材料
- 微电子
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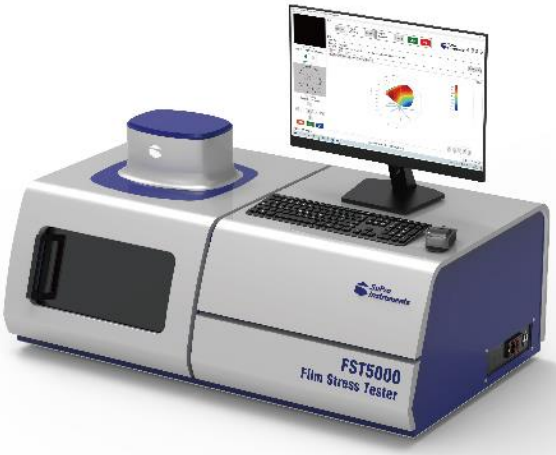
※ 可沉积薄膜材料 ※

Oxides					Nitrides		Sulfides	Metals/ Tellurides
Al_2O_3	Fe_2O_3	Li_3PO_4	$NiFe_2O_4$	VO_2	AlGaN	MrN	CdS	Co
Al:HfO$_2$	Fe_3O_4	LiPON	NiO	V_2O_5	AlN	NtN	CoS	Cu
Al:ZnO	$FePO_4$	$LiFePO_4$	PO_4	WO_3	$B_xGa_{1-x}N$	NbTN	Cu_2S	Fe
$Al_xGa_yO_z$	Ga_2O_3	Li_2MnO_4	SiO_2	Y_2O_3	$B_xIn_{1-x}N$	SiN	Cu_2ZnSnS_4	Ir
BO_x	HfO_2	Li_5TaO_x	SnO_2	YSZ	CoN	TaN	In_2S_3	Mn
$BiFe_3$	HfSiON	MgO	SrO	$ZnAl_2O_4$	HfN	TiN	MnS	Ni
CeO_2	In_2O_3	MnO_2	$SrTiO_3$	ZnO	Hf_3N_4	VN	PbS	Pd
Co_3O_4	ITO	MoO_2	Ta_2O_5	ZnMgO	InAlN	WN	Sb_2S_3	Pt
$CoFe_2O_4$	La_2O_3	NaTiO	TiO_2	ZnOS	InGaN	ZrN	SnS	Ru
Er_2O_3	Li_2O	Nb_2O_5	V_2O_3	ZrO_2	InN	Zr_3N_4	ZnS	Bi_2Te_3
								Sb_2Te_3



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DSC3000
磁控溅射镀膜机

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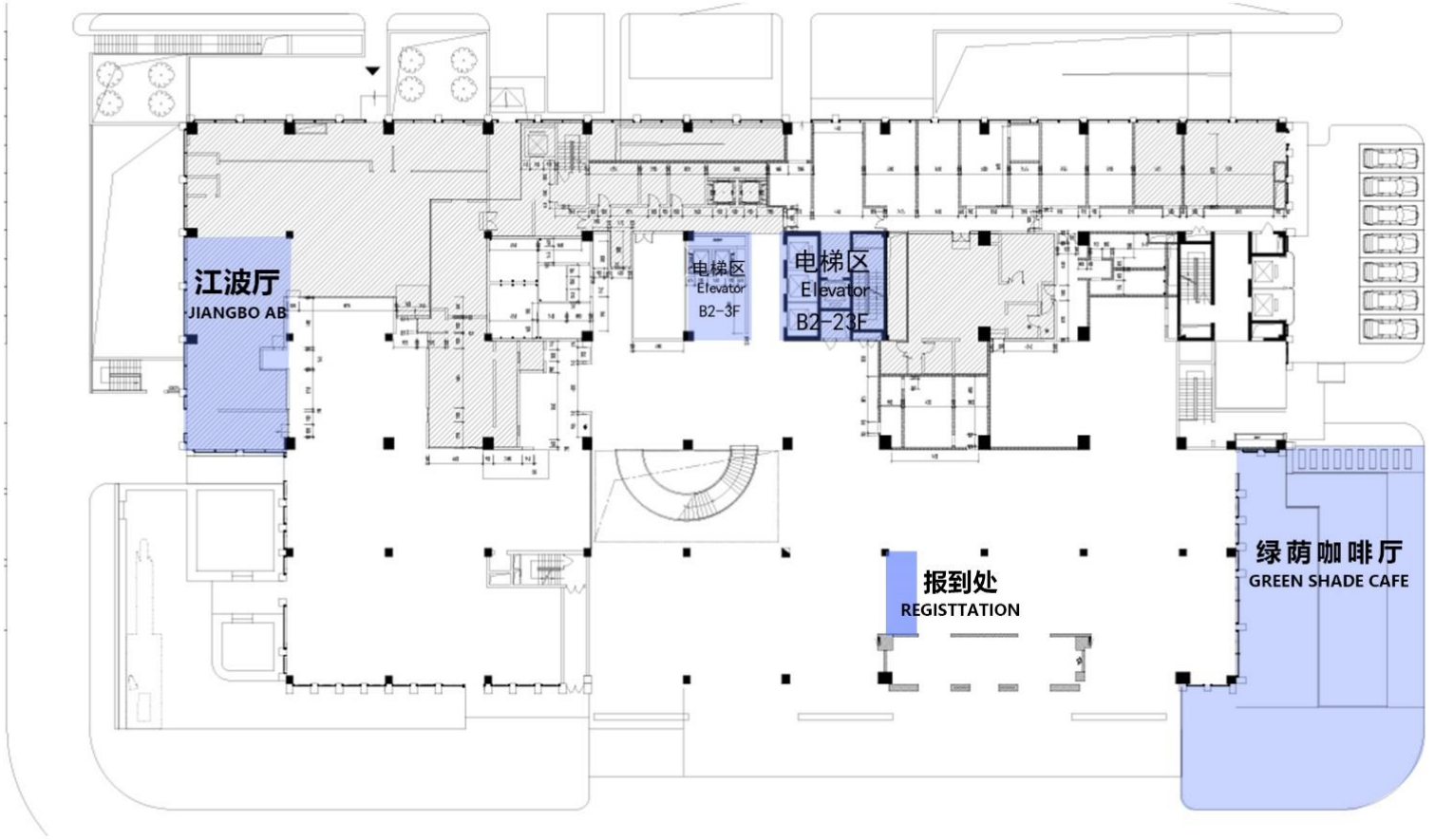
4~8英寸金属薄膜电极制备
Load-lock过渡舱+工艺舱室

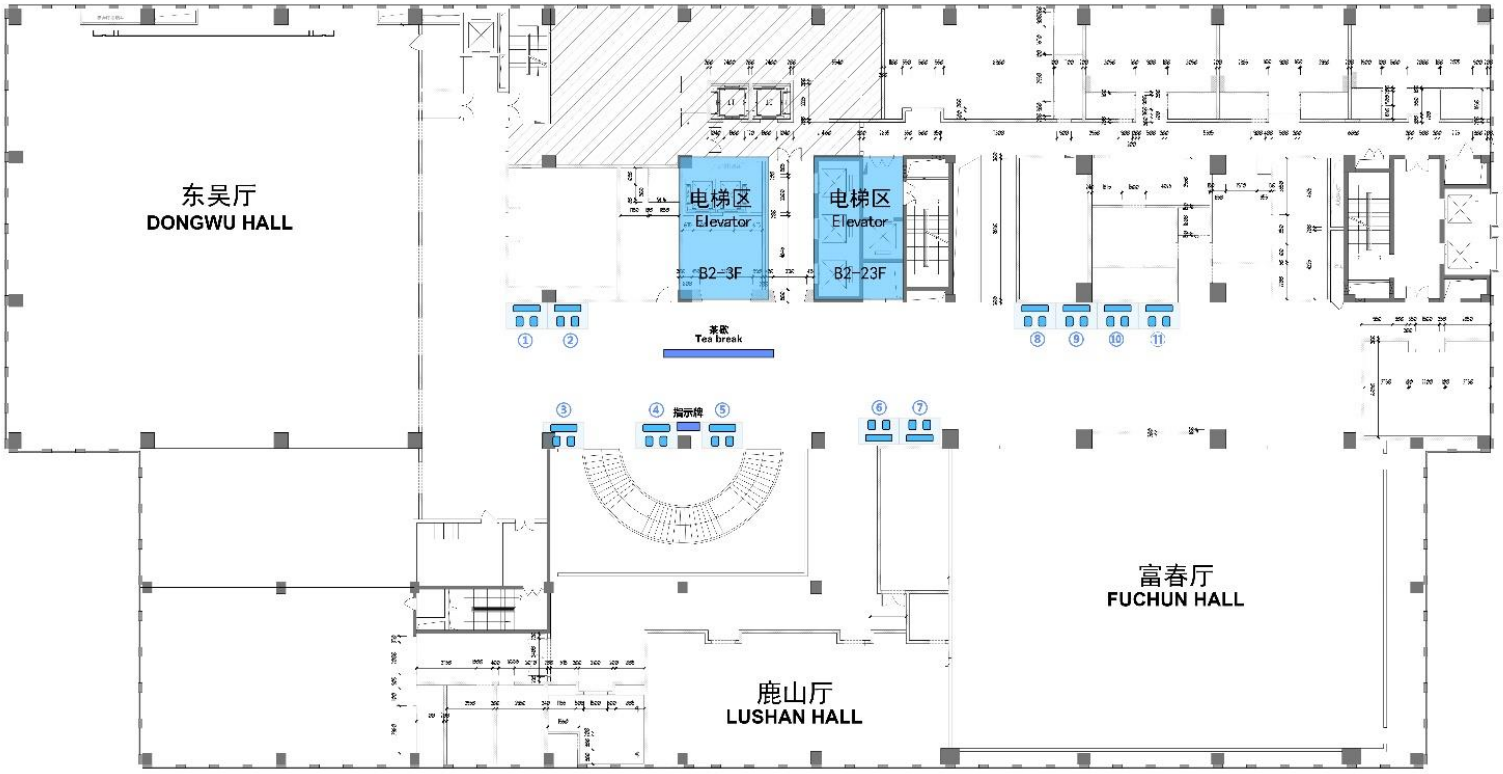
SuPro Instruments 速普仪器
薄膜制备量测仪器供应商

Redesign | 再设计

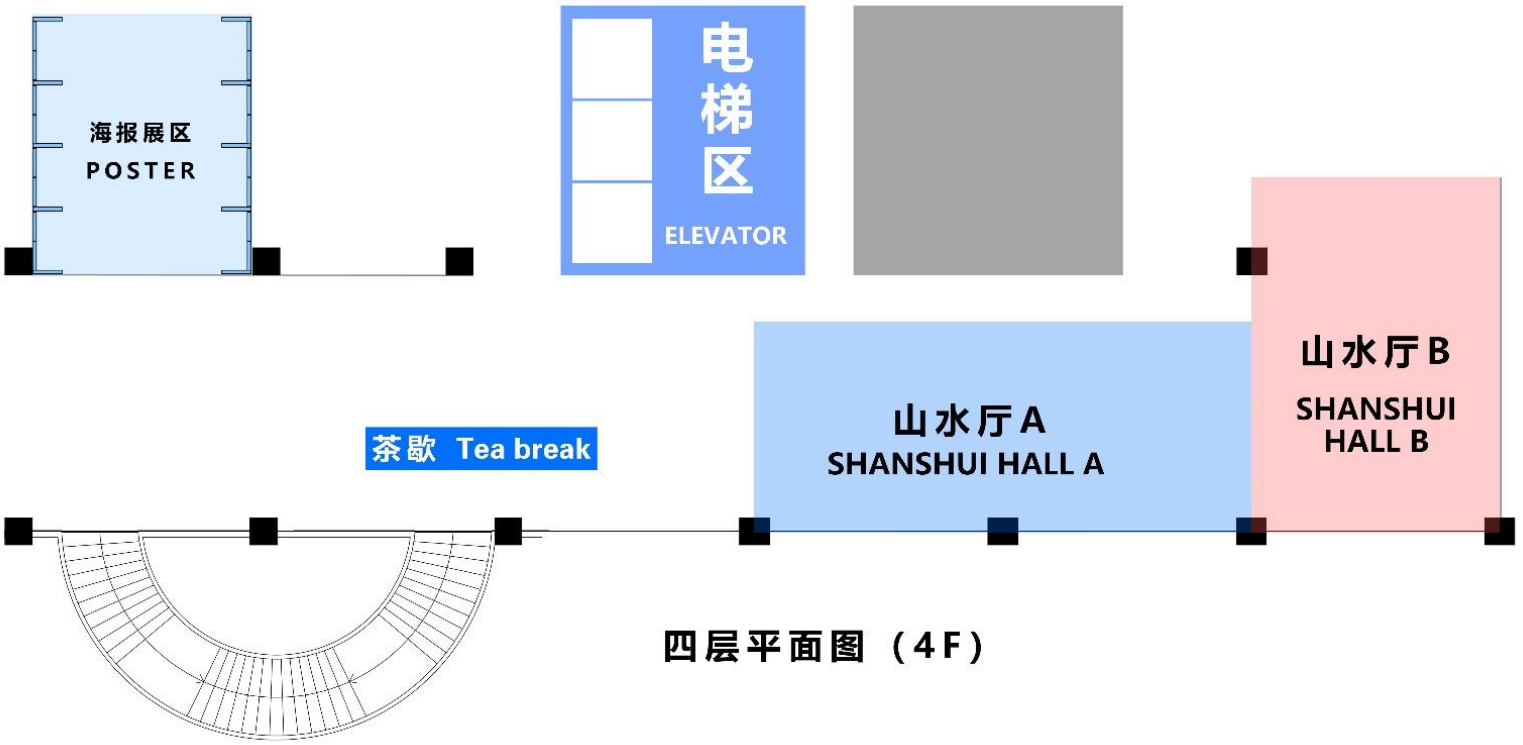
Floor Plan



1st Floor


东吴厅
DONGWU HALL
电梯区
Elevator
B2-3F
电梯区
Elevator
B2-23F
茶歇
Tea break
指示牌
富春厅
FUCHUN HALL
鹿山厅
LUSHAN HALL

3rd Floor



四层平面图（4F）

4th Floor

General Schedule

(All times in China Standard Time, UTC+8)

Date	Time	Activity	Venue
May 12	10:00-20:00	Registration	Lobby, 1F
	13:30-15:00	The 1st Annual Meeting of Chinese Optics Running Club	Lushan Hall, 3F
	13:30-17:30	光电显示产业论坛-微显示与 AR 产业技术	Fuchun Hall, 3F
May 13	08:30-12:00	Opening Ceremony & Plenary Session	Dongwu Hall, 3F
	14:50-15:30	Poster Session	Lobby, 4F
	17:30-19:30	Banquet	Dongwu Hall, 3F
May 13 May 14 May 15	13:30-17:30 09:00-17:30 09:00-12:00	**Topic 1.** Advanced Optoelectronic Devices and Integration **Topic 7.** Novel Optical Display Technology	Fuchun Hall, 3F
		Topic 2. Integrated Optoelectronics Simulation and Design **Topic 5.** Optical AI and Computational Photonics	Shanshui A Hall, 4F
		Topic 3. Micro/Nano Fabrication Technology and Equipment **Topic 4.** Integrated Optoelectronics Packaging and Testing	Shanshui B Hall, 4F
		Topic 6. Optical Sensing and its Application **Topic 8.** Optical Communication and Networks	Lushan Hall, 3F
May 13-15	08:30-18:30	Exhibition	Lobby, 3F

光电显示产业论坛-微显示与 AR 产业技术

Fuchun Hall, 3F

时间	嘉宾
May 12 **13:30-17:00**	陈远，舜宇奥来技术有限公司
	董烁，江苏鲁汶仪器股份有限公司
	蒋超，歌尔光学科技有限公司
	宋海涛，成都理想境界科技有限公司
	涂书学, EV Group
	熊雯，字节跳动科技有限公司
	张君杰，雷鸟创新技术(深圳)有限公司
	张琬皎，国科大杭州高等研究院
	张卓鹏，杭州光粒科技有限公司
	周宓，宁波天璇新材料科技有限公司

Opening Ceremony & Plenary Session

Dongwu Hall, 3F

May 13 AM	
Presider: Qiwen Zhan, University of Shanghai for Science and Technology	
08:30-09:00	Opening Ceremony
09:00-09:40	**David Brady**, The University of Arizona --- *The Past and Future Integrated Optical Neural Computers* ***Plenary***
09:40-10:20	**Stephen Y. Chou**, Princeton University --- *Subwavelength Optical Elements (SOEs-Meta Optics) and Nanoimprint --A Path That Has Revolutionized Optical Devices, Systems and Applications* ***Plenary***
10:20-10:40	**Tea Break & Group Photo**
Presider: William Shieh, Westlake University	
10:40-11:20	**David Moss**, Swinburne University of Technology --- *Optical Frequency Kerr Microcombs: My Journey* ***Plenary***
11:20-12:00	**Nikolay Zheludev**, University of Southampton --- *Time Crystals for Photonics and Timetronics* ***Plenary***

David Brady is the J. W. and H. M. Goodman Professor of Optical Sciences at the University of Arizona, where he leads the Camera Lab. Brady is a Fellow of Optica, IEEE and SPIE. He received the SPIE Denis Gabor Award in 2023 and the Optical Emmett Leith Award in 2013 for his work on compressive holography. He was previously on the faculty of Duke University and the University of Illinois. At Duke he led development of the AWARE gigapixel camera system and he developed numerous systems related to snapshot compressive imaging in collaboration with Westlake University Professor Xin Yuan. He received his Ph. D. from the California Institute of Technology for a thesis entitled "Photorefractive volume holography in artificial neural networks."

Title: The past and future integrated optical neural computers

Abstract:

Artificial neural networks developed over the past decade have demonstrated fundamental advances in artificial intelligence. The seeds of these networks date back to training algorithms and hardware architectures developed in the 1980's. Optical neural systems developed at that time already demonstrated large scale tensor operations. Integrated optical solutions were motivated by their ability to scale, adapt and connect. These advantages remain valid today. This talk reviews the history of these systems and considers their current status. We consider in particular the ability of integrated optical systems to process terapixel to petapixel per second image data.

Stephen Y. Chou (PhD, MIT, 1986) is the Joseph C. Elgin Professor of Engineering at Princeton University. He is the founder and founding chairman of the board of three startup companies: Nanonex Corp., NanoOpto Corp., and Essenlix Corp., and is a co-founder of BioNano Genomics Inc. He is a member of the US National Academy of Engineering (2007), a Fellow of the US National Academy of Inventors (2013), a recipient of the IEEE Cledo Brunetti Award (2004), the IEEE Nanotechnology Pioneer Award (2014), and the Nanoimprint Pioneer Award (2015); a Packard Fellow (1990), and a Fellow of the IEEE (2000), the American Vacuum Society (AVS) (2010), the Optical Society of America (OSA, now Optica) (2011), and the International Society for Nanomanufacturing (ISNM) (2010), among other awards and honors.

Title: Subwavelength Optical Elements (SOEs - Meta Optics) and Nanoimprint -- A Path That Has Revolutionized Optical Devices, Systems and Applications

Abstract:

As one of a handful of pioneers who started exploring SOEs before 1995, when virtually no viable patterning SOEs existed, and as the inventor of nanoimprint and the originator and a key driver of using nanoimprint to develop SOEs, the author will present, using his 30 years of pioneering work in SOEs and nanoimprint as examples, three areas: (1) the development of a variety of SOEs, including polarizers (metallic and non-metallic), waveplates, filters (fixed and tunable), beam splitters, combiner, antireflection surface, lenses, etc., (2) the creation of new optical systems that integrate novel SOEs with active optical elements to form light emitters (lasers, LEDs, solar cells) as well as optical clocks with unique properties, and (3) advancements in nanoimprint technology for manufacturing SOEs, particularly new low-cost, direct-writing-free nanoimprint mold fabrication methods for creating SOEs over large areas. Finally, the author will present his view of the future of SOEs and nanoimprint.

Distinguished Professor **David Moss** is Director of the Optical Sciences Centre at Swinburne University and Deputy Director of the newly established Australian Research Council Centre of Excellence COMBS (Centre for Optical Microcombs for Breakthrough Science). He is a Life Fellow of the IEEE Photonics Society, the Optical Society of America (now Optica), and the SPIE. He has had a 32-year history of R&D in photonics, nonlinear optics, nanophotonics, quantum optics, opto-electronics and optical communications. He is probably best known for co-inventing CMOS compatible optical microcomb chips and pioneering their applications. He was in industry for 7 years with Hitachi Central Research Labs in Tokyo, Japan, and JDS Uniphase in Ottawa, Canada during the the 1990s. He won the 2011 Australian Museum and Google Eureka Science for Innovation in Computer Science. He was The Australian national newspaper top research field leader in Optics and Photonics in 2023. Prof. Moss has published over 800 research papers including 3 Nature, a Science and 8 Nature Photonics papers.

Title: Optical Frequency Kerr Microcombs: My Journey

Abstract:

Optical microcombs represent a new paradigm for generating laser frequency combs based on compact chip-scale devices, underpinning technological advances for both fundamental science and practical applications. I'll review my work in this area, from the first report of CMOS compatible microcomb chips 15 years ago to their advanced applications in neuromorphic processing, communications and other areas.

Professor **Nikolay Zheludev** FRS NAE is a world leader in the field of nanophotonics and metamaterials. He received MSc, PhD and DSc from Moscow State University. His international research careers continued at the University of Southampton in the UK where he became Deputy Director (Physics) of the world-famous Optoelectronics Research Centre and Director of the Centre for Photonic Metamaterials. At NTU Professor Zheludev is founding director of the Centre for Disruptive Photonic Technologies and co-director of The Photonics Institute. He is also a fellow at the Halger Institute for Advanced Study, Texas A&M University, USA. Nikolay is a fellow of the Royal Society of London (British Academy), Member of the United States of America National Academy of Engineering. He is also a fellow of the European Physical Society, the Institute of Physics and the Optical Society of America (Optica) and American Physical Society. His personal awards include the IOP Thomas Young medal and Michael Faraday Gold medal, the President of Singapore Science and Technology Award and the IPS President Gold medal.

Title: Time Crystals for Photonics and Timetronics

Abstract:

We witness the growing excitement and breadth of research on Time Crystals, the new state of matter, a many-body strongly correlated systems exhibiting broken time-translation symmetry and ergodicity. We demonstrate that a metamaterial nanostructures can exhibit the continuous time crystal state controlled by light and driven by non-reciprocal forces of light pressure. I argue that nanophotonics can play a pivotal role in bringing this sophisticated, yet esoteric subject to the practical domain of “timetronics”– an information and data technology relying on the unique functionalities of Time Crystals.

Topic 1. Advanced Optoelectronic Devices and Integration
&
Topic 7. Novel Optical Display Technology

Fuchun Hall, 3F

May 13	
Topic 1: Advanced Optoelectronic Devices and Integration **Presider: Lan Li, Westlake University**	
13:30-14:00	Zhiping Zhou, Peking University --- *Silicon Based Optoelectronics (SBO)* ***Keynote***
14:00-14:25	Hongtao Lin, Zhejiang University --- *"Near Zero change" platform for monolithic back-end-of-line integration of phase change materials in silicon photonics* ***Invited***
14:25-14:50	Junqiu Liu, Southern University of Science and Technology --- *Ultralow -loss silicon nitride integrated photonics* ***Invited***
14:50-15:30	**Tea Break & Poster session**
Topic 7: Novel Optical Display Technology **Presider: Botao Ji, Westlake University**	
15:30-16:00	Feng Gao, Linköping University --- *Perovskite LEDs for Multifunctional Displays* ***Keynote***
16:00-16:30	Bin Liu, Nanjing University --- *TBD* ***Keynote***
16:30-16:55	Jie Sun, Fuzhou University --- *Electroless deposition of highly-uniform nickel microbumps with ultrahigh resolution of 8 μm pitch for Micro-LED displays* ***Invited***
16:55-17:20	Wen Qiao, Soochow University --- *Planar optics for augmented reality 3D display* ***Invited***
May 14	
Topic 1: Advanced Optoelectronic Devices and Integration **Presider: Yang Yang, Zhejiang University**	
9:00-9:30	Zuyuan He, Shanghai Jiao Tong University --- *Silicon photonic integrated interrogator for fiber-optic distributed acoustic sensing* ***Keynote***
9:30-9:55	Liu Liu, Zhejiang University --- *Electro-optic and passive optical integrated devices based on thin film lithium niobate* ***Invited***
9:55-10:20	Jianlu Wang, Fudan University --- *Ferroelectrics for optoelectronics* ***Invited***
10:20-10:40	**Tea Break**
Topic 7: Novel Optical Display Technology **Presider: Ying Wang, Technical Institute of Physics and Chemistry**	
10:40-11:05	Jizhou Song, Zhejiang University --- *Laser-driven Transfer Printing Techniques for Mico-LED Displays* ***Invited***

11:05-11:30	Xingliang Dai, Zhejiang University --- *Nanosurface Reconstruction of Metal Halide Quantum Dots for Active-Matrix Display* ***Invited***
11:30-11:55	Cheng Pan, Tianjin University --- *Key Parameter Design and Detection in Spatial Computational Micro-Nano AR Display Systems* ***Invited***
	Lunch
Topic 7: Novel Optical Display Technology **Presider: Jizhou Song, Zhejiang University**	
13:30-13:55	Ying Wang, Technical Institute of Physics and Chemistry, CAS --- *Efficient, stable organic light-emitting diodes with over one micron thickness* ***Invited***
13:55-14:20	Hongyu Bian, Jilin University --- *TBD* ***Invited***
14:20-14:45	Yang Liu, Zhejiang University --- *Efficient and Stable Perovskite Light Emitting Diodes Based on In-situ Reactions* ***Invited***
14:45-15:05	**Tea Break**
Topic 1: Advanced Optoelectronic Devices and Integration **Presider: Liu Liu, Zhejiang University**	
15:05-15:30	Yang Yang, Zhejiang University --- *Seeing the "color" of X-rays* ***Invited***
15:30-15:55	Menglu Chen, Beijing Institute of Technology --- *Colloidal Quantum Dot for Infrared Photodetection* ***Invited***
15:55-16:20	Qinghai Tan, University of Science and Technology of China --- *Electrically controlling correlated phases in semiconductor moiré superlattices* ***Invited***
16:20-16:45	Xinlun Cai, Sun Yat-sen University --- *TBD* ***Invited***
May 15	
Topic 7: Novel Optical Display Technology **Presider: Wei Kong, Westlake University**	
9:00-9:25	Xiaojun Guo, Shanghai Jiao Tong University --- *Organic-on-III-V monolithic integration for active-matrix micro-LED displays* ***Invited***
9:25-9:50	Liang Li, Macau University of Science and Technology --- *The Strategies to Stabilize Quantum Dots* ***Invited***
9:50-10:15	Xuyong Yang, Shanghai University --- *Low dimensional semiconductor luminescent materials and devices* ***Invited***
10:15-10:35	**Tea Break**
Topic 1: Advanced Optoelectronic Devices and Integration **Presider: Bowen Zhu, Westlake University**	
10:35-11:00	Bin Zhang, Sun Yat-sen University --- *Integrated nonlinear photonics based on chalcogenide glass photonic devices* ***Invited***

11:00-11:25	He Yang, Beihang University --- *Study on the Photonic Transceiver Devices for the Development of Integrated Optical Gyroscopes* ***Invited***
11:25-11:50	Xingchen Ji, Shanghai Jiao Tong University --- *Ultra Low-loss Silicon Nitride Photonic Integrated Circuits* ***Invited***
11:50-12:05	Lu Sun, Shanghai Jiao Tong University --- *Silicon topological photonic devices for on-chip optical communications* ***Oral***

Topic 2. Integrated Optoelectronics Simulation and Design
&
Topic 5. Optical AI and Computational Photonics

Shanshui A Hall, 4F

May 13	
Topic 2: Integrated Optoelectronics Simulation and Design **Presider: Feihu Xu, University of Science and Technology of China**	
13:30-14:00	Shijie Xu, Fudan University --- *Electron-phonon coupling and spectral analysis of deep acceptor associated yellow luminescence in GaN* ***Keynote***
14:00-14:25	Yi Zhou, Shanghai Institute of Technical Physics, CAS --- *Multi-physics Field Coupling Simulation For Tuning F-P Filter Using in Cooled Mid-Wavelength Infrared Spectral Detector* ***Invited***
14:25-14:50	Yi Gu, Shanghai Institute of Technical Physics, CAS --- *Design and demonstration of Short-wave Infrared InGaA optoelectronic devices* ***Invited***
14:50-15:30	**Tea Break & Poster session**
Topic 5: Optical AI and Computational Photonics **Presider: Shijie Xu, Fudan University**	
15:30-16:00	Feihu Xu, University of Science and Technology of China --- *Single-photon computational LiDAR* ***Keynote***
16:00-16:25	Xiang Hao, Zhejiang University --- *Point Spread Function Optimization and Its Applications in Microscopy* ***Invited***
16:25-16:50	Baoqing Sun, Shandong University --- *Single-pixel near infrared hyperspectral imaging with optoelectronic spectrum modulation* ***Invited***
16:50-17:15	Yurui Qu, ShanghaiTech University --- *Inverse Design of Photonics and Optical Computing Devices* ***Invited***
May 14	
Topic 2: Integrated Optoelectronics Simulation and Design **Presider: Jun Wang, Shanghai Institute of Optics and Fine Mechanics, CAS**	
9:00-9:30	Hua Li, Shanghai Institute of Microsystem and Information Technology (SIMIT), CAS --- *Chip-scale terahertz semiconductor laser frequency combs* ***Keynote***
9:30-9:55	Yan Cai, Shanghai Institute of Microsystem and Information Technology, CAS --- *High speed silicon-based optoelectronic modulators and photodetectors* ***Invited***
9:55-10:20	Shuiying Xiang, Xidian University --- *Photonic spiking neural networks: models, algorithms and applications* ***Invited***
10:20-10:40	**Tea Break**

Topic 5: Optical AI and Computational Photonics **Presider: Puxiang Lai, The Hong Kong Polytechnic University**	
10:40-11:05	Jiamiao Yang, Shanghai Jiao Tong University --- *Research and Application of DLP High-Speed High-Precision Optical Field Modulation Technology.* ***Invited***
11:05-11:30	Zhichao Ruan, Zhejiang University --- *Spatial optical Ising machine by wavelength-division multiplexing* ***Invited***
11:30-12:00	Liangcai Cao, Tsinghua University --- *Recent Advances in Intelligent photonics* ***Keynote***
	Lunch
Topic 2: Integrated Optoelectronics Simulation and Design **Presider: Hua Li, Shanghai Institute of Microsystem and Information Technology (SIMIT), CAS**	
13:30-13:55	Peijun Yao, University of Science and Technology of China --- *Stable Generation of Cylindrical Vector Beam through All-fiber Laser* ***Invited***
13:55-14:20	Jun Wang, Shanghai Institute of Optics and Fine Mechanics, CAS --- *Key Devices and Technologies for Chip-scale Atomic integrated Systems* ***Invited***
14:20-14:45	Yuntian Chen, Huazhong University of Science and Technology --- *Symmetry adapted Bloch boundary condition in computational photonics* ***Invited***
14:45-15:05	**Tea Break**
Topic 5: Optical AI and Computational Photonics **Presider: Liangcai Cao, Tsinghua University**	
15:05-15:35	Puxiang Lai, The Hong Kong Polytechnic University --- *Information Extraction, Reconstruction, Encryption, and Logical Operations with scattered light via computing and learning approaches* ***Keynote***
15:35-16:00	Tailong Xiao, Shanghai Jiao Tong University --- *Machine learning enhanced computational ghost imaging* ***Invited***
16:00-16:25	Jinli Suo, Tsinghua University --- *Lightweight High-throughput Computational Imaging by Spectral Encoding* ***Invited***
16:25-16:50	Can Huang, Harbin Institute of Technology, Shenzhen --- *Controllable distant interaction based on bound state in the continuum* ***Invited***
May 15	
Topic 5: Optical AI and Computational Photonics **Presider: Wei Yan, Westlake University**	
9:00-9:25	Wei Li, Beijing Institute of Space Mechanics & Electricity --- *Space-based Remote Sensing and Optical Pre-sensor Computing Technology* ***Invited***

9:25-9:50	Chenyu Hu, Hangzhou Institute for Advanced Study, UCAS --- *Perspective on the uncertainty of image information acquisition in computational imaging and research progress based on ghost imaging* ***Invited***
9:50-10:05	Runqiu Luo, Westlake Institute for Optoelectronics --- *Snapshot compressive structured illumination microscopy* ***Oral***
10:05-10:20	Gang Qu, Westlake University --- *Dual-scale Transformer for Large-scale Single-Pixel Imaging* ***Oral***
10:20-10:40	**Tea Break**
Topic 2: Integrated Optoelectronics Simulation and Design **Presider: Wei Li, Beijing Institute of Space Mechanics & Electricity**	
10:40-11:05	Xunya Jiang, Fudan University --- *TBD* ***Invited***
11:05-11:30	Wei Li, Shanghai Institute of Microsystem and Information Technology --- *TBD* ***Invited***
11:30-11:55	Wei Yan, Westlake University --- *Fast and accurate nanophotonic simulations: from macroscopic to mesoscopic scales* ***Invited***
11:55-12:10	Bo Wang, Shanghai Institute of Microsystem and Information Technology CAS --- *On-chip fluorescence array sensor for chemical gas sensing* ***Oral***

Topic 3. Micro/Nano Fabrication Technology and Equipment
&
Topic 4. Integrated Optoelectronics Packaging and Testing

Shanshui B Hall, 4F

May 13	
Topic 3. Micro/Nano Fabrication Technology and Equipment **Presider: Liaoyong Wen, Westlake University**	
13:30-14:00	Inkyu Park, Korea Advanced Institute of Science and Technology, KAIST --- *Micro-LED based monolithic semiconductor gas sensors for ultra-low-power electronic nose* ***Keynote***
14:00-14:30	Baohua Jia, RMIT University --- *Intelligent laser Nanoprinting of Atomaterials and Integrated Optoelectronis Devices* ***Keynote***
14:30-14:55	Jiafang Li, Beijing Institute of Technology --- *Nano-kirigami enabled nanofabrication techniques and reconfigurable metasurfaces* ***Invited***
14:55-15:30	**Tea Break & Poster session**
Topic 4. Integrated Optoelectronics Packaging and Testing **Presider: Nicholas X. Fang, The University of Hong Kong**	
15:30-16:00	Linjie Zhou, Shanghai Jiao Tong University --- *High-density packaging and automated testing for large-scale integrated optical chips* ***Keynote***
16:00-16:25	Shiyuan Liu, Huazhong University of Science and Technology --- *High- Resolution Imaging Mueller Matrix Ellipsometry for Nanomaterials and Nanostructures* ***Invited***
16:25-16:50	Renjie Zhou, The Chinese University of Hong Kong --- *Interferometric Quantitative Phase Microscopy for Nanometrology Applications* ***Invited***
16:50-17:15	Sen Han, University of Shanghai for Science and Technology --- *Wavefront Measurement in Transmission by Using a Multiple-Wavelength Interferometer* ***Invited***
May 14	
Topic 3. Micro/Nano Fabrication Technology and Equipment **Presider: Xiaohong Zhou, Soochow University**	
9:00-9:25	Benfeng Bai, Tsinghua University --- *Remarkable blackening of materials by ultrafast laser induced surface hierarchical structuring* ***Invited***
9:25-9:50	Dezhi Tan, Zhejiang Lab --- *Ultrafast laser direct writing in glass: mechanism and applications* ***Invited***

9:50-10:15	Qian Liu, National Center for Nanoscience and Technology --- *Complex micro/nanostructures fabricated by laser-path-guided strain* ***Invited***
10:15-10:35	**Tea Break**
Topic 4. Integrated Optoelectronics Packaging and Testing Presider: Qiwen Zhan, University of Shanghai for Science and Technology	
10:35-11:05	Nicholas X. Fang, The University of Hong Kong --- *Direct monitoring of nanoscale deformations across all layers in 3D-stacked structures* ***Keynote***
11:05-11:30	Yanrong Song, Beijing University of Technology --- *Ultra-short pulse generation in optically pumped semiconductor disk lasers* ***Invited***
11:30-11:55	Huakang Yu, South China University of Technology --- *A transverse FROG for on-chip diagnosis of waveguiding ultrafast pulses* ***Invited***
	Lunch
Topic 4. Integrated Optoelectronics Packaging and Testing Presider: Huakang Yu, South China University of Technology	
13:30-13:55	Shaoliang Yu, Zhejiang Lab --- *Two Photon Lithography for Integrated Photonics Packaging* ***Invited***
13:55-14:20	Limin Zhou, MRSI Automation (Shenzhen) Co., Ltd. --- *Innovations in Advanced Photonics Packaging and Assembly Technologies During the AI Era* ***Invited***
14:20-14:45	Liangjun Lu, Shanghai Jiao Tong University --- *Parallel data transmission and dispersion compensation powered by soliton microcombs* ***Invited***
14:45-15:05	**Tea Break**
Topic 3. Micro/Nano Fabrication Technology and Equipment Presider: Dezhi Tan, Zhejiang Lab	
15:05-15:30	Tao Ding, Wuhan University --- *Laser-Directed Writing and Superelastic Molding of Plasmonic Nanodevices* ***Invited***
15:30-15:55	Xiaohong Zhou, Soochow University --- *Fabrication of Large-scale Flexible Micro-nanostructures and Applications* ***Invited***
15:55-16:20	Yang Li, Harbin Institute of Technology --- *Light emission orientation of two-dimensional semiconductors* ***Invited***
16:20-16:45	Ran Ji, QingDao Germanlitho Co., Ltd. --- *Nanoimprint Total Solution for AR waveguide mass production* ***Invited***
16:45-17:00	Lang Wang, Westlake University --- *Aluminum Work Hardening Enabled 3D Lithography for Flexible Electronics* ***Oral***

17:00-17:15	Lanxin Xu, Westlake University --- *Highly Reversable Tuning of Light-Matter Interactions in Van der Waals Materials Coupled with Hydrogel-Assisted Optical Cavity* ***Oral***
May 15	
Topic 4. Integrated Optoelectronics Packaging and Testing **Presider: Huan Hu, Zhejiang University-University of Illinois Urbana-Champaign Institute**	
9:00-9:25	Nan Lin, Shanghai Institute of Optics and Fine Mechanics, CAS --- *Metrology and Control of Lithographic Process* ***Invited***
9:25-9:50	Haojie Xia, Hefei University of Technology --- *High Resolution Industrial Cameras with Sub-Pixel shift technology and its applications* ***Invited***
9:50-10:05	Guangyu Fan, University of Shanghai for Science and Technology --- *Generation of advanced broadband light source for metrology applications* ***Oral***
10:05-10:20	Zhigang Peng, Hamburg University --- *In situ measurement technology for industrial applications* ***Oral***
10:20-10:40	**Tea Break**
Topic 3. Micro/Nano Fabrication Technology and Equipment **Presider: Xiaorui Zheng, Westlake University**	
10:40-11:05	Huan Hu, Zhejiang University-University of Illinois Urbana-Champaign Institute --- *Advanced Nano Fabrication and Characterization via Atomic Force & Helium ion Microscope* ***Invited***
11:05-11:30	Jiajia Zhou, University of Technology Sydney --- *Upconversion Nanoparticles for Temperature Sensing and Rapid Diagnostics* ***Invited***

Topic 6. Optical Sensing and its Application
&
Topic 8. Optical Communication and Networks

Lushan Hall, 3F

May 13	
Topic 6. Optical Sensing and its Application **Presider: Yongkang Dong, Harbin Institute of Technology**	
13:30-13:55	Qing Yang, Zhejiang University --- *Super-resolution imaging in a lumen* ***Keynote***
13:55-14:15	Arkady Shipulin, Skolkovo Institute of Science and Technology --- *Applications of Photonic Integrated Circuits* ***Invited***
14:15-14:35	Qizhen Sun, Huazhong University of Science and Technology --- *TBD* ***Invited***
14:35-14:50	Xuanru Zhang, Southeast University --- *Ultracompact Integrated Sensing System based on Spoof Localized Surface Plasmons* ***Oral***
14:50-15:30	**Tea Break & Poster session**
Topic 8. Optical Communication and Networks **Presider: William Shieh, Westlake University**	
15:30-16:00	Sergei Popov, KTH Royal Institute of Technology --- *Beyond the beam: Frontiers of integrated photonics in perspective of technology and applications* ***Keynote***
16:00-16:25	Jian Wang, Huazhong University of Science and Technology --- *Shaping Light on Multiple Physical Dimensions with Photonic Integrated Devices* ***Invited***
16:25-16:50	Tao Chu, Zhejiang University --- *Development of SOI and TFLN photonic devices* ***Invited***
16:50-17:15	Xiaoyi Tian, The University of Sydney --- *Integrated Microresonator-based Microwave Photonic Sensing* ***Invited***
May 14	
Topic 8. Optical Communication and Networks **Presider: Daoxin Dai, Zhejiang University**	
9:00-9:30	Xun Li, McMaster University --- *Advanced semiconductor lasers that light fiber-optic data links and networks* ***Keynote***
9:30-9:55	Ping Ma, University of Science and Technology of China --- *High-Speed Integrated Communication Photonic Devices* ***Invited***
9:55-10:20	Nan Qi, Institute of Semiconductors, CAS --- *Chiplet Optical I/O for High-Performance Computing* ***Invited***
10:20-10:40	**Tea Break**

Topic 6. Optical Sensing and its Application **Presider: Qizhen Sun, Huazhong University of Science and Technology**	
10:40-11:00	Jianzhong Zhang, Harbin Engineering University --- *Specialty silica optical fiber: fabrication and applications* ***Invited***
11:00-11:20	Yosuke Mizuno, Yokohama National University --- *Pioneering approaches in Brillouin optical correlation-domain reflectometry* ***Invited***
11:20-11:40	Xinyu Fan, Shanghai Jiao Tong University --- *Distributed fiber-optic sensing system using Rayleigh Brillouin and Raman scattering* ***Invited***
11:40-12:00	Mingjiang Zhang, Taiyuan University of Technology --- *High resolution chaos distributed fiber sensing* ***Invited***
12:00-12:20	Lei Zhang, Zhejiang University --- *Ultrasensitive sensors and miniature photoactuators based on optical micro/nanofibers* ***Invited***
	Lunch
Topic 8. Optical Communication and Networks **Presider: Xun Li, McMaster University**	
13:30-14:00	Daoxin Dai, Zhejiang University --- *Multimode Silicon Photonic Devices* ***Keynote***
14:00-14:25	Miaofeng Li, Alibaba --- *Prospects for Silicon Optical Modulator Technology in the IMDD Single Wavelength 200G and 400G Era* ***Invited***
14:25-14:50	Di Che, Nokia Bell Labs --- *Revisiting Probabilistic Constellation Shaping in Short-Reach IM-DD Systems* ***Invited***
14:50-15:10	**Tea Break**
Topic 6. Optical Sensing and its Application **Presider: Jianzhong Zhang, Harbin Engineering University**	
15:10-15:35	Changyuan Yu, The Hong Kong Polytechnic University --- *Non-wearable non-invasive smart health monitoring system based on special optical fiber interferometer* ***Keynote***
15:35-15:55	Changrui Liao, Shenzhen University --- *Optical fiber tip function integration with ultrafast laser manufacturing* ***Invited***
15:55-16:15	Yanan Zhang, Northeastern University --- *Research on fiber-optic gas sensing technology* ***Invited***
16:15-16:35	Liang Mei, Dalian University of Technology --- *The Scheimpflug lidar technique and its applications in Environment and Agriculture* ***Invited***
16:35-16:55	Shuaiqi Liu, Harbin Institute of Technology --- *Low Complexity Phase-sensitive Optical Time-Domain Reflectometry* ***Invited***

16:55-17:10	Guangtao Zhu, Yokohama National University --- *Strain and temperature sensing characteristics of Brillouin frequency shift in ZBLAN fiber* ***Oral***
17:10-17:25	Li Shen, Huazhong University of Science and Technology --- *High-sensitivity and Wide-range Refractive Index Sensor using Subwavelength Grating Slot Waveguide Microring Resonator* ***Oral***
May 15	
Topic 8. Optical Communication and Networks **Presider: Lei Liu, Westlake University**	
9:00-9:25	Nan Chi, Fudan University --- *New spectrum Communications towards 6G* ***Invited***
9:25-9:50	Yong Liu, University of Electronic Science and Technology of China --- *Self-calibrated frequency response measurement of high-speed optoelectronic devices* ***Invited***
9:50-10:15	Yong Zhang, Shanghai Jiao Tong University --- *TBD* ***Invited***
10:15-10:35	**Tea Break**
Topic 6. Optical Sensing and its Application **Presider: Lingmei Ma, Westlake Institute for Optoelectronics**	
10:35-10:50	Yitong Gu, Shanghai Institute of Optics and Fine Mechanics, CAS --- *Benchmarking the light coupling efficiencies under varied-NAcombination of fibers and lens* ***Oral***
10:50-11:05	Sumin Bian, Westlake University --- *Optical Fiber Biosensing of Infectious Diseases and Evaluating of Vaccine Efficacy* ***Oral***
11:05-11:20	Xinggang Shang, Westlake University --- *PicoNewton level spring-based fiber force sensor: implementation and application* ***Oral***
11:20-11:35	Jiacheng Sun, Westlake University --- *Dynamic strong light-matter interaction tailored by 3D bound state in continuum metasurface for Q-switched nanophotonic biosensor* ***Oral***

Poster Lists

COINT 2024-001	***Demonstration and simulation of double-slope-assisted Brillouin optical correlation-domain reflectometry*** Yukihiro Suzuki[1], Heeyoung Lee[1], Haruki Sasage[1], Kohei Noda[2,3,4], Kentaro Nakamura[3], and Yosuke Mizuno[2] 1.Shibaura Institute of Technology; 2.Yokohama National University; 3.Tokyo Institute of Technology; 4.The University of Tokyo
COINT 2024-002	***Estimating modulation amplitude with Rayleigh noise spectrum in Brillouin optical correlation-domain reflectometry*** Keita Kikuchi[1], Heeyoung Lee[1], Ryo Inoue[1], Kouta Ozaki[2], Haruki Sasage[1], and Yosuke Mizuno[2] 1.Shibaura Institute of Technology; 2.Yokohama National University
COINT 2024-003	***Strain sensing through multimode interference in micro dry-etched perfluorinated plastic optical fibers*** Akihito Kato[1], Chenxu Zhao[1], Ryo Nakashima[2], Takuto Nakanishi[2], Yuji Wada[3], Kentaro Nakamura[3], Daisuke Yamane[2], Yosuke Mizuno[4], Heeyoung Lee[1] 1.Shibaura Institute of Technology; 2.Ritsumeikan University; 3.Tokyo Institute of Technology; 4.Yokohama National University
COINT 2024-004	***Brillouin optical correlation-domain reflectometry with differential spectrum approach for distant strain distribution measurement*** Ryo Inoue[1], Haruki Sasage[1], Yusei Shirai[1], Keita Kikuchi[1], Yosuke Mizuno[2], Heeyoung Lee[1] 1.Shibaura Institute of Technology, 2.Yokohama National University
COINT 2024-005	***Research on the design of flat-top beam shaping based on metasurface*** Xinxin Pu, Wenhao Guo, Xueping Sun, Yechuan Zhu, Shun Zhou, Weiguo Liu Xi'an Technological University
COINT 2024-006	***DSP-free Demultiplexing for DP-QPSK Reception in Frequency Synchronous Optical Networks*** Lei Liu[1,2], Puzhen Yuan[1], Weiqi Lu[1], Yuhao Fang[1], Zexu Liu[1], William Shieh[1,2,*] 1.School of Engineering, Westlake University, Hangzhou 310024, China; 2.Westlake Institute for Optoelectronics, Fuyang, Hangzhou 311421, China
COINT 2024-007	***Study of Phase Noise Induced Interference for Coherently-detected OTDR Systems*** Zexu Liu, Weiqi Lu, Lei Liu, William Shieh School of Engineering, Westlake University

COINT 2024-008	***Complete logic operations in an ambipolar tellurium homojunction via non-invasive scanning probe lithography*** Haoting Ying[1,#], Manzhang Xu[#], Xiaotong Xu[1], Liaoyong Wen[1], Zheng Liu[*], Xuewen Wang[*], Xiaorui Zheng[1,*], and Wei Huang[*] 1.School of Engineering, Westlake University, Hangzhou 310024, P.R. China
COINT 2024-009	***Scalable layer-controlled oxidation of Bi_2O_2Se for self-rectifying memristor arrays with sub-pA sneak currents*** Yingjie Zhao[#], Zhefeng Lou[#], Jiaming Hu, Wenbin Li, Xiao Lin[*], Xiaorui Zheng[*] School of Engineering, Westlake University, Hangzhou, 310024, P. R. China
COINT 2024-010	***Achieving Ferroelectricity in a Centrosymmetric High-Performance Semiconductor by Strain Engineering*** Mengqi Wu[1#], Zhefeng Lou[2#], Chen-Min Dai[3#], Tao Wang[2], Jiaqi Wang[1], Ziye Zhu[1], Zhuokai Xu[2], Tulai Sun[4], Wenbin Li[1*], Xiaorui Zheng[1*], Xiao Lin[2*] 1.School of Engineering, Westlake University; 2.School of Science, Westlake University; 3.School of Physical Science and Technology, Suzhou University of Science and Technology; 4.College of Chemical Engineering, Zhejiang University of Technology
COINT 2024-011	***Portable Flexible Probe for Detecting Blood Supply Status in Clinical Surgery*** Jie Xia, Jiadong Pan, Ruijian Yan*, Fan Zhang, Luxi Zhang, Gang Feng, Jack Luo, Shurong Dong, Yueming Wang Key lab. of advanced micro/nano electronic devices & smart systems of zhejiang, college of information science and electronic engineering, zhejiang university, Hangzhou, China
COINT 2024-012	***Hybrid integrated wearable patch for co-located brain EEG-fNIRS function monitoring*** Boyu Li[1], Mingjie Li[1], Jie Xia[1], Hao Jin[1*], Shurong Dong[1*] 1.Key Lab. of Advanced Micro/Nano Electronic Devices & Smart Systems of Zhejiang, College of Information Science and Electronic Engineering, Zhejiang University, Hangzhou 310027
COINT 2024-013	***Two-dimensional ferroelectric semiconductor field-effect transistor for neuromorphic computing*** Yitong Chen, Bowen Zhu[*] Westlake University
COINT 2024-014	***Achieving Reliable and Ultrafast Memristors via Artificial Filaments in Silk Fibroin*** Zishun Li[1#], Jiaqi Wang[1#], Lanxin Xu[1#], Li Wang[2], Hongpeng Shang[1], Haoting Ying[1], Yingjie Zhao[1], Liaoyong Wen[1*], Chengchen Guo[1*], Xiaorui Zheng[1*] 1.School of Engineering, Westlake University, Hangzhou, Zhejiang 310030, China; 2.Institute of Physics, Chinese Academy of Sciences, Beijing 100190, China

COINT 2024-015	***Ultrathin Indium-Tin-Oxide Transistors with High Mobility and Stability by High-Power Sputtering at Low Temperature*** Chunyan Song[1], Qi Huang[2], Bowen Zhu[1,2] 1.Westlake University, Hangzhou 310024, China; 2.Westlake Institute for Optoelectronics, Hangzhou 311421, China.
COINT 2024-016	***Controllable Synthesis, Self-assembly, and Photoelectric Application of Low-dimensional Noble Metal Nanomaterials*** Lixiang Xing, Bowen Zhu[*] Westlake Institute for Optoelectronics, Westlake University

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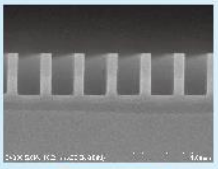

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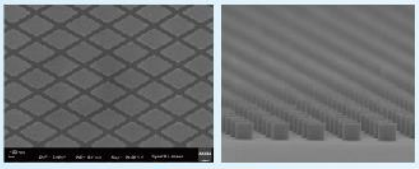

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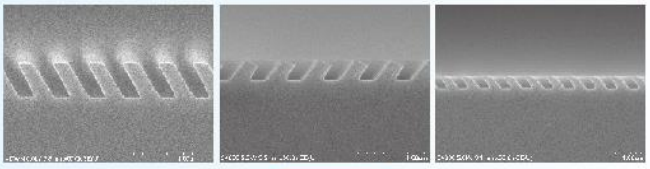

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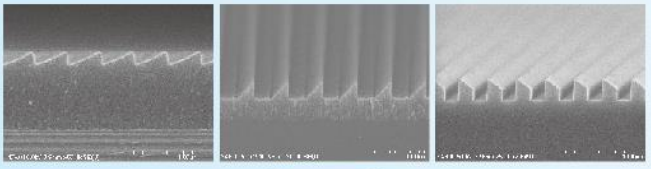

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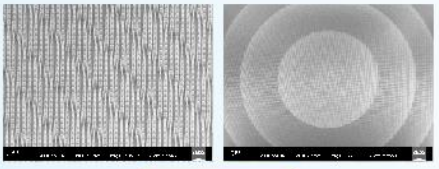

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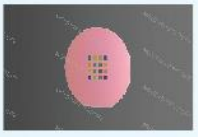

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