

D3: Active Optoelectronic Devices	
Location: Conference Room 103C, 1F	
November 2, 2026	
Heterogeneous Integration and Integrated Photonics Presider: Yu Han, Sun Yat-sen University, China	
13:30-14:30	Heterogenous integration of active optoelectronic components on photonic integration platforms (Tutorial) Siyuan Yu Sun Yat-sen University, China
14:30-15:00	Heterogeneously Integrated Thin-Film Lithium Niobate Modulators on Silicon Photonics platform (Invited) Yan Cai SIMIT, China
15:00-15:15	High-dimensional Mid-Infrared Computational Nanocrystal Photodetector (Oral) Yifan Chen Sun Yat-sen University, China
15:15-15:30	High-Speed 1310-nm Modified Uni-Traveling-Carrier Photodetector with Diluted Waveguide Spot-Size Converter (Oral) Qifan Wang Shanghaitech University, China
15:30-16:00	Coffee Break
Integrated Lasers and Photonic Devices Presider: Siyuan Yu, Sun Yat-sen University, China	
16:00-16:30	Monolithic integration of III-V lasers on SOI using selective lateral heteroepitaxy (Invited) Yu Han Sun Yat-sen University, China
16:30-16:45	Ge-Si Photodetector with Large Bandwidth and High Saturation Based on Hyperparameter Optimization (Oral) Guanyu Chen Chongqing University, China
16:45-17:00	A Room-Temperature Waveguide-Integrated Germanium-on-SOI Defect-mediated Photodetector for Mid-Infrared Sensing (Oral) Tianhui Hu University of Southampton, United Kingdom
17:00-17:15	A Waveguide-Integrated Graphene-Colloidal-Quantum-Dots-Graphene Heterostructure Photodetector operating at 2 μm (Oral) Leyi Hu State Key Laboratory of Extreme Photonics and Instrumentation, China; College of optical Science and Engineering, Zhejiang University, China

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Photodetectors and Infrared Optoelectronics Presider: Lianping Hou, University of Glasgow, United Kingdom	
08:30-09:00	Continuous Free Spectral Range Tuning in Optical Microresonators (Invited) Michael Sumetsky Aston University, United Kingdom

09:00-09:30	Developments of Si-photonics based on group IV materials: from epitaxy to infrared optoelectronic devices (Invited) Chi Xu Institute of Semiconductors, Chinese Academy of Sciences, China; College of Material Science and Optoelectronic Technology, University of Chinese Academy of Sciences, China
09:30-09:45	PIN Diode-Integrated Silicon Microring Resonators for Reconstructive Optical Spectrum Analyzers (Oral) Ho Ming Ku HKUST, China
09:45-10:00	High-Saturation Ge-Si Traveling-Wave Photodetector with Inductive-Load (Oral) Guanyu Chen Chongqing University, China
10:00-10:30	Coffee Break
Photodetectors and Novel Materials Presider: Michael Sumetsky, Aston University, United Kingdom	
10:30-11:00	Monolithic Dual-Wavelength DFB Lasers for THz/MMW Signal Generation (Invited) Lianping Hou University of Glasgow, United Kingdom
11:00-11:15	Continuous Spatial Harmonic Engineering of Slow-Light TFLN Waveguides for Fabrication-Tolerant Velocity Matching (Oral) Yingfei Wan Beijing University of Posts and Telecommunications, India
11:15-11:30	Ultra-Compact High-Power 60-μm-Pitch SOA Arrays with Shared Electrodes for Simultaneous Current Injection (Oral) Ying Liu Sun Yat-sen University, China
11:30-11:45	4 Channel Directly Modulated DFB Laser Array for 400Gb/s DR4 optical communications (Oral) KangKai State Key Laboratory of Optoelectronic Materials and Devices, Institute of Semiconductors, Chinese Academy of Sciences, China; Center of Materials Science and Optoelectronics Engineering, University of Chinese Academy of Sciences, China
11:45-12:00	Performance Uniformity Enhancement of III-V/Si₃N₄ Hybrid Laser Based on Broadband Bent Directional Couplers (Oral) Xinrong Jiang State Key Laboratory of Photonics and Communications, Department of Electronic Engineering, Shanghai Jiao Tong University, China

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November 4, 2026	
Lasers and Nonlinear Photonics Presider: Ting Wang, Shanghai Jiao Tong University, China	
08:30-09:00	Machine Learning-Assisted Smart Epitaxy of III-V Quantum Dots and Devices (Invited) Chao Zhao Institute of Semiconductors, CAS, China
09:00-09:15	L-band composite soliton rains in an NPR mode-locked erbium-doped fiber laser (Oral) Danyang Wang Tianjin University, China
09:15-09:30	Tunable electro-opto-mechanical oscillator based on Brillouin scattering in optical fibers (Oral) Xie Haoran Shanghai University, China

09:30-09:45	Back-illuminated MUTC-PD with 0.9 A/W Responsivity and 67 GHz Bandwidth (Oral) Dingran Gu ShanghaiTech University, China
09:45-10:30	Coffee Break
Optical Communications and Modulation Presider: Chao Zhao, Institute of Semiconductors, CAS, China	
10:30-11:00	Femtojoule Optical Kerr Switching with Milliwatt-Peak-Power in Silicon-Organic Hybrid Nanocavity (Invited) Xu Jing Huazhong University of Science and Technology, China
11:00-11:30	QD Comb Laser Driven Optical Interconnects (Invited) Ting Wang Shanghai Jiao Tong University, China
11:30-11:45	Integrated Optical Receiver for Terahertz Wireless Communication Over 100 GBaud (Oral) Linshan Yang Peking University, China
11:45-12:00	A Silicon Mach-Zehnder Modulator with Time-Frequency Equalization Achieving a Bandwidth Exceeding 67 GHz (Oral) Yanxiang Lu Fudan University, China
High-Speed Optical Interconnects Presider: Yunhong Ding, Technical University of Denmark, Denmark	
13:30-14:00	Optical Multilevel Eigenvalue Modulation for Nonlinear Fiber-Optic Transmission (Invited) Ken Mishina The University of Osaka, Japan
14:00-14:15	Impedance-Equalized Silicon MZM with 78 GHz Extrapolated Bandwidth for DSP-Free 224 Gb/s Transmission (Oral) Yanxiang Lu Fudan University, China
14:15-14:30	144 Gbps Traveling-Wave-Electrode EML Based on Identical Epitaxial Layer Scheme for Data Center Interconnects (Oral) Zhaozhuo Wang Tsinghua University, China
14:30-14:45	A Gain-Controllable Broadband Transimpedance Amplifier for over 100-GBaud PAM4 Receivers (Oral) Yuming Zhao
14:45-15:00	A CSV-to-BGA Vertical Transition Design on an LTCC Substrate for High-Speed 2.5D CPO Interconnects (Oral) Chi Zhang Key Laboratory of Information and Communication Systems, Ministry of Information Industry, Beijing Information Science and Technology University, China
15:00-15:15	High-Gain Mid Wavelength Infrared UTC-HPT with Gradient Doped InGaAsGaAsSb T2SL (Oral) Mingxin Yao Beijing University of Posts and Telecommunications, China
15:15-16:00	Coffee Break
Integrated Photonics Applications and Devices Presider: Ken Mishina, The University of Osaka, Japan	
16:00-16:30	Reconfigurable integrated photonic circuit for quantum entanglement generation, manipulation and purification (Invited) Yunhong Ding Department of Electrical and Photonics Engineering (DTU Electro), Technical University of Denmark, Denmark; SiPhotonIC ApS, Denmark

16:30-16:45	Coated near 8.5 μm quantum cascade laser frequency combs for mid-infrared free-space heterodyne links (Oral) Xinkai Liu Laboratory of Solid-State Optoelectronics Information Technology, Institute of Semiconductors, Chinese Academy of Sciences, China; College of Materials Science and Opto-Electronic Technology, University of Chinese Academy of Sciences, China
16:45-17:00	Integrated Lithium Niobate Acousto-optic Frequency Comb (Oral) Xinyan Fu State Key Laboratory of Extreme Photonics and Instrumentation, Zhejiang Key Laboratory of Optoelectronic Information Technology, College of Optical Science and Engineering Zhejiang University,
17:00-17:15	A high-speed on-chip graphene bolometer with the folded waveguide structure (Oral) Junhuan Li State Key Laboratory of Extreme Photonics and Instrumentation, College of Optical Science and Engineering, Zhejiang University, China