

Program

Dec. 7th, Keynote Session, Room Picasso (Presiders: Siyuan Yu, Marko Lončar, Jin Liu, Aiqun Liu)

8:30-8:40	Welcome Speech	
8:40-9:25	Marko Lončar (Harvard University, USA)	High Performance Integrated Photonics based on Thin Film Lithium Niobate (TFLN)
9:25-10:10	Ya Cheng (East China Normal University, China)	Large-scale photonic integrated circuits on thin film lithium niobate
10:10-10:30	Tea break	
10:30-11:15	Arnan Mitchell (RMIT University, Australia)	Lithium Niobate Building Blocks for Photonic Chip Optical Frequency Combs
11:15-12:00	Xianfeng Chen (Shanghai Jiao Tong University, China)	Lithium-niobate-on-insulator micro-waveguides for efficient nonlinear photonic applications
12:00-13:30	Lunch break	
13:30-14:15	Alireza Marandi (Caltech, USA)	Ultrafast Nonlinear Nanophotonics: From Superior Components to Advanced Circuits
14:15-15:00	Ulrik Andersen (Technical University of Denmark, Denmark)	Photonic quantum computing with continuous variables
15:00-15:45	Xiaosong Ma (Nanjing University, China)	Integrated quantum photonics for quantum network
15:45-16:05	Tea break	
16:05-16:50	Jin Liu (Sun Yat-Sen University, China)	Integrated Quantum Photonics Based on Epitaxial Quantum Dots
16:50-17:35	Noriaki Horiuchi (Nature Publishing Group)	What Nature Photonics looks for
17:35-18:20	Mu Wang (American Physical Society)	Inside Story of Physical Review Letters and Physical Review Journals
19:10 --	Banquet	

Dec. 8th, Technical Session, Room Picasso

Session: AFR Industry Forum (Presider: Kevin Zhang)

8:00-8:20	Xin Ou (Shanghai Inst. Microsys. Inform. Technol., CAS, China)	Heterogeneous Integration XOI-Materials for Photonic Integrated Circuit and Acoustic RF Filter (Invited)
8:20-8:40	Xinlun Cai (Sun Yat-Sen University, China)	High speed and low power consumption TFLN PICs for optical communications (Invited)
8:40-9:00	Weihua Guo (Huazhong Univ. Sci. Technol., China)	Application opportunity and development status of thin film lithium niobate photonic integrated circuits (Invited)
9:00-9:20	Tao Chu (Zhejiang University, China)	Improving Electro-optic Modulation Efficiencies of Thin-Film Lithium Niobate Modulators (Invited)
9:20-9:35	Yang Liu (National Optoelectron. Innov. Center, China)	150 Gbaud optical PAM4 modulation based on segmented thin film lithium niobate modulator
9:35-9:50	Reinhard Geiss (Fraunhofer Inst. Appl. Opt. Precision Eng. Germany)	Low-loss lithium niobate integrated photonic devices fabricated on wafer-scale
9:50-10:05	Tong Ge (The City University of Hong Kong, China)	Integrated lithium niobate microwave photonics system for high-speed signal processing
10:05-10:20	Tea break	
10:20-10:40	Dennis Zhou (Advanced Fiber Resources, China)	Energy efficient optical interconnect for AI clusters and data centers (Invited)
10:40-11:30	Panel Discussion	
11:30-13:10	Poster session & Lunch break	

Dec. 8th, Technical Session, Room Picasso

Session: Fabrication Technologies (Presider: Liu Liu)

13:10-13:35	Guanghui Ren (RMIT University, Australia)	Propagation Loss Reduction Strategy for Silicon Nitride Loaded Thin-Film Lithium Niobate Platform (Invited)
13:35-13:50	Rongjin Zhuang (Tsinghua University, China)	High-Q thin film lithium niobate microrings fabricated with wet etching
13:50-14:05	Matthew Yeh (Harvard University, USA)	Material processing considerations for stable thin-film lithium niobate electro-optic devices
14:05-14:20	Simin Yu (ShanghaiTech University, China)	Fabrication of thin-film lithium niobate by poling-assisted hydrofluoric acid wet etching
14:20-14:35	Xiaotian Xue (Shanghai Jiao Tong University, China)	Integrated Erbium-Doped Lithium Niobate on Insulator Waveguide Amplifier for High-Power Application
14:35-14:50	Tea break	

Session: Nonlinear Photonics (Presider: Cheng Wang)

14:50-15:15	Jinsong Xia (Huazhong Univ. Sci. Technol., China)	All optical wavelength conversion based on thin-film PPLN (Invited)
15:15-15:40	Fang Bo (Nankai University, China)	Second harmonic generation in reversed-polarized double-layer thin film lithium niobate devices (Invited)
15:40-16:05	Chunhua Dong (Univ. Sci. Technol. China, China)	Frequency comb in the lithium niobate microresonators (Invited)
16:05-16:20	Chunyu Huang (Nanjing University, China)	Designing Lithium Niobate Photonic waveguide for broadband sum-frequency generation
16:20-16:45	Juanjuan Lu (ShanghaiTech University, China)	Integrated Lithium Niobate nonlinear photonics (Invited)
16:45-17:00	Best Paper Award	

Dec. 8th, Technical Session, Room Monet

Session: Quantum Photonics (Presiders: Wei Luo and Xiaosong Ma)

8:00-8:25	Amir Ghadami (Lightium AG, Switzerland)	Photonics engine for quantum control of atomic systems (Invited)
8:25-8:50	Zhenda Xie (Nanjing University, China)	Chip-scale optical frequency comb and quantum optical circuits using thin film lithium niobate (Invited)
8:50-9:05	Lu He (Beijing Institute of Technology, China)	Topology-optimized computing optical chip: from classical to quantum
9:05-9:20	Yuan Li (The Hong Kong Polytechnic University, China)	High-Dimensional Degenerate Entangled States on Quantum Photonic Chip
9:20-9:35	Min-Hao Jiang (Nanjing University, China)	Quantum storage of entangled photons at telecom wavelengths in a crystal
9:35-9:50	Shengshuai Liu (East China Normal University, China)	Quantum squeezing manipulation based on phase-sensitive amplifier
9:50-10:05	Huihui Zhu (The Hong Kong Polytechnic University, China)	A Large Number Qubits of Quantum Microprocessor for Graph Simulation
10:05-10:20	Tea break	
10:20-10:45	Jietai Jing (East China Normal University, China)	OAM multiplexed quantum entanglement and its applications (Invited)
10:45-11:00	Helen Cai (The Hong Kong Polytechnic University, China)	Silicon Nitride Photonic Platform for Quantum Devices Fabrication and Integration
11:00-11:15	Wei Luo (The Hong Kong Polytechnic University, China)	High-Speed Quantum Photonic Chips for Quantum Key Distribution (QKD) Systems
11:15-11:30	Yanbo Lou (East China Normal University, China)	Reconfigurable Quantum Network by Spatially Multiplexed Four-Wave Mixing Processes
11:30-13:10	Poster session & Lunch break	

Dec. 8th, Technical Session, Room Monet

Session: Acoustics and BIC (Presider: Zejie Yu)

13:10-13:35	Linbo Shao (Virginia Tech., USA)	Acoustic-wave Integrated Circuits on Lithium Niobate (Invited)
13:35-14:00	Yansong Yang (The Hong Kong Univ. Sci. Technol., China)	MEMS Acoustic waves in Lithium Niobate thin films for RF applications (Invited)
14:00-14:25	Lei Wan (Jinan University, China)	Integrated photonics based on thin-film lithium niobate-chalcogenide hybrid waveguides (Invited)
14:25-14:40	Ziyao Feng (The Chinese University of Hong Kong, China)	Experimental observation of dissipatively coupled bound states in the continuum on an integrated photonic platform
14:40-14:55	Tea break	

Session: Electro-optics (Presider: Chao Lu)

14:55-15:20	Yang Li (Tsinghua University, China)	Integrated lithium niobate photonics: from communications to metrology (Invited)
15:20-15:35	Rebecca Cheng (Harvard University, USA)	Electro-Optic-Based Optical Isolator on Thin-Film Lithium Niobate
15:35-15:50	Hailong Han (Shanghai Inst. Microsys. Inform. Technol., CAS, China)	Cryogenic thin-film lithium niobate modulators with superconducting electrodes
15:50-16:05	Zhengyi Wan (Beijing Univ. Posts Telecomm., China)	Analytical solution for electro-optic ring modulators
16:05-16:20	Gongcheng Yue (Tsinghua University, China)	Integrated lithium niobate optical phased array for two-dimensional beam steering
16:20-16:45	Zejie Yu (Zhejiang University, China)	High-speed integrated lithium niobate electro-optic modulator and large-capacity link (Invited)
16:45-17:00	Best Paper Award (Picasso)	

**Dec. 8th, Poster Session, Room Monet
(11:30--13:10)**

Poster #	Presenter	Title
LiNC-P02	Lei Wang (Shandong University, China)	Modal Phase Matching in dual-layered thin film lithium niobate
LiNC-P03	Yujie Ma (Shenzhen Technology University, China)	On-chip polarization beam splitter at visible wavelengths with LNOI ridge waveguide
LiNC-P04	Xiaopeng Hu (Nanjing University, China)	Periodically poled LNOI for nonlinear integrated photonics
LiNC-P05	Ke Zhang (The City University of Hong Kong, China)	Power-efficient electro-optic comb generation in a multi-pass lithium niobate phase modulator
LiNC-P06	Xiang Yin (Suzhou InnovSemi Co., Ltd., China)	Ultra-high modulation efficiency for thin-film lithium niobate electro-optical modulator
LiNC-P07	Yiwen Zhang (The City University of Hong Kong, China)	High performance millimeter-wave optic modulator in thin-film lithium niobate platform
LiNC-P08	Gengxin Chen (Zhejiang University, China)	First demonstration of differential-driven push-pull Mach-Zehnder modulators on thin-film lithium niobate
LiNC-P09	Sha Zhu (Beijing University of Technology, China)	Multi-format microwave signal generation based on thin-film lithium niobate
LiNC-P10	Xijie Wang (Zhejiang University, China)	Fourier transform spectrometer based on thin-film lithium niobate
LiNC-P11	Junjie Yi (Zhejiang University, China)	AWG optical filter based on thin-film x-cut Lithium Niobate photonic platform
LiNC-P12	Toijam Sunder Meetei (Gwangju Institute of Science and Technology, South Korea)	Study of Argon Ion Beam Milling on Lithium Niobate Single Crystal for Integrated Photonics
LiNC-P13	Mai Wang (Zhejiang University, China)	Robust thin-film lithium niobate modulator on a silicon substrate with back-side holes
LiNC-P14	Ziliang Ruan (Zhejiang University, China)	An FSR-free add-drop filter based on thin-film lithium niobate
LiNC-P15	Yifan Qi (Tsinghua University, China)	110-GHz bandwidth integrated lithium niobate modulator without direct lithium niobate etching
LiNC-P16	Chengfei Shang (The City University of Hong Kong, China)	Photonic inverse design on thin-film lithium niobate platform
LiNC-P17	Yan Gao (Chalmers University of Technology, Sweden)	Dispersion-engineered ultralow-loss tightly confined lithium niobate long waveguides
LiNC-P18	Bin Chen (Zhejiang University, China)	High-performance edge coupler with crossed tapers on thin-film lithium niobate
LiNC-P19	Jian Cheng (Huazhong Univ. Sci. Technol., China)	Enhanced second harmonic generation in high-Q Fabry-Perot microresonator on thin film lithium niobate

Dec. 8th, Poster Session, Room Monet (11:30--13:10)

LiNC-P20	Ting'an Li (Huazhong Univ. Sci. Technol., China)	QAM Signal Measured by Thin-Film Lithium Niobate Electric Field Sensor
LiNC-P21	Fei Ma (Sun Yat-Sen University, China)	Low-pump-power and high-efficiency up-conversion single photon detector based on lithium niobate on insulator
LiNC-P23	Xiaodong Zeng (Univ. Sci. Technol. China, China)	Barometric stress response of spin defects in two-dimensional materials
LiNC-P24	Zhenhua Li (Sun Yat-Sen University, China)	Solving MAXCUT Problems under Light Source Noise on Lithium Niobate-based Optoelectronic Ising Machine
LiNC-P25	Yuancheng Zhang (Nanyang Technological Univ., Singapore)	Physics-Aware Analytic-Gradient Training in Quantum Computing Chips
LiNC-P26	Lu Qi (South China Normal University, China)	Polarization-Insensitive Electro-Optical Modulator Based on Thin-Film Lithium Niobate Multimode Waveguide
LiNC-P27	Tian Gao (South China Normal University, China)	Thin-Film Lithium Niobate Waveguide Bending for TM-mode
