

FULL SCIENTIFIC PROGRAM

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2026/7/5	Pre-Conference Day									
10:00-18:00	On-Site Registration & Materials Collection									Lobby (1F)
14:00-16:00	Tutorials									VIP206 向学厅
18:30-20:00	Welcome Reception & YP Social Event									
2026/7/6	Opening & Plenary Speeches & Keynote Speeches									
2026/7/6	08:00-08:30	Opening								Sanjiang Lecture Hall 三江报告厅
2026/7/6	08:30-09:15	Plenary Speech	PS01	Yu Sun	Robotic Cell Surgery	University of Toronto, Canada				Sanjiang Lecture Hall 三江报告厅
2026/7/6	09:15-10:00	Plenary Speech	PS02	Kaustav Banerjee	Atoms to Architectures: 2D Materials for Energy-Efficient NanoelectronicsUC Santa Barbara, USA	UC Santa Barbara, USA				Sanjiang Lecture Hall 三江报告厅
2026/7/6	10:00-10:20	Coffee Break								
2026/7/6	10:20-10:50	Keynote Speech	KN01	Tibor Grasser	Benchmarking Insulators for Devices Based on 2D Materials	TU Wien, Austria				Zhongda Lecture Hall 中大报告厅
2026/7/6	10:20-10:50	Keynote Speech	KN02	Peng Zhou	Wafer-scale MoS2 Growth and Its Ultrafast Flash Memory	Fudan University				VIP201 洁行厅
2026/7/6	10:20-10:50	Keynote Speech	KN03	John Yeow	The Development of Multi-Pixel Field Emission X-ray Devices	University of Waterloo				VIP210 以行厅
2026/7/6	10:20-10:50	Keynote Speech	KN04	Dae-Hyeong Kim	Robust Power Supply for Soft Implantable Bioelectronics	Seoul National University				VIP211 躬行厅
2026/7/6	10:50-11:50	Parallel Sessions (See Details Below)								
2026/7/6	12:00-13:30	Lunch								
2026/7/6	13:30-14:00	Keynote Speech	KN05	Tianling Ren	Novel Integrated Device Technologies Driving Moore's Law	Tsinghua University				Zhongda Lecture Hall 中大报告厅
2026/7/6	13:30-14:00	Keynote Speech	KN06	Deep Jariwala	III-Nitride Ferroelectrics: From Materials to Technology Development	University of Pennsylvania				VIP201 洁行厅
2026/7/6	13:30-14:00	Keynote Speech	KN07	John H Lau	Chipselets and Heterogeneous Integration	Unimicron Technology Corporation				VIP210 以行厅
2026/7/6	13:30-14:00	Keynote Speech	KN08	Guilhem Larrieu	Nanotechnology for Deciphering Brain Function on Chip: High-Resolution Neural Interfaces with Nanoelectrode Arrays	LAAS-CNRS				VIP211 躬行厅
2026/7/6	14:00-18:10	Parallel Sessions (See Details Below)								

2026/7/7	Plenary Speeches & Keynote Speeches						
2026/7/7	08:30-09:15	Plenary Speech	PS03	Stephen Chou	The Invention of the Gate-All-Around (GAA) Transistor in 1996 (30 Years Ago): From Single-Electron MOS Memory to GAA	Princeton University, USA	Sanjiang Lecture Hall 三江报告厅
2026/7/7	09:15-10:00	Plenary Speech	PS04	Saptarshi Das	Scaling 2D CMOS: From Transistors to 3D Integrated Systems	The Pennsylvania State University, USA	Sanjiang Lecture Hall 三江报告厅
2026/7/7	10:00-10:20	Coffee Break					
2026/7/7	10:20-10:50	Keynote Speech	KN09	Jianpu Wang	Perovskite LEDs for Lighting and Displays	Nantong University	Zhongda Lecture Hall 中大报告厅
2026/7/7	10:20-10:50	Keynote Speech	KN10	Jun He	Wafer-Scale Two-Dimensional Semiconductor Materials and Post-Moore Information Devices	Wuhan University	VIP201 洁行厅
2026/7/7	10:20-10:50	Keynote Speech	KN11	Yanwu Zhu	Precision construction and functional exploration of novel artificial carbon crystals at the atomic scale	University of Science and Technology of China	VIP210 以行厅
2026/7/7	10:50-11:50	Parallel Sessions (See Details Below)					
2026/7/7	12:00-13:30	Lunch					
2026/7/7	13:30-14:00	Keynote Speech	KN12	Georgios Ch. Sirakoulis	Engineered Living Materials: Challenges and Perspectives	Democritus University of Thrace	Zhongda Lecture Hall 中大报告厅
2026/7/7	13:30-14:00	Keynote Speech	KN13	Elena P. Ivanova	Shedding light on the interfaces of biomimetic nanostructured surface	Royal Melbourne Institute of Technology University	VIP201 洁行厅
2026/7/7	13:30-14:00	Keynote Speech	KN14	Winnie Ye	Subwavelength Metamaterial Grating Couplers as Enablers for High-Performance Optical Communication Interfaces	Carleton University	VIP210 以行厅
2026/7/7	14:00-18:10	Parallel Sessions (See Details Below)					

2026/7/8	Plenary Speeches & Keynote Speeches						
2026/7/8	08:30-09:15	Plenary Speech	PS05	Sorin Cotofana	Spin Wave Based Computing: Can Spin Wave Warriors Annihilate Charge Legions?	Delft University of Technology, Netherlands	Sanjiang Lecture Hall 三江报告厅
2026/7/8	09:15-10:00	Plenary Speech	PS06	Jianbin Xu	TBA	The Chinese University of Hong Kong, China	Sanjiang Lecture Hall 三江报告厅
2026/7/8	10:00-10:20	Coffee Break					
2026/7/8	10:20-10:50	Keynote Speech	KN15	Yimao Cai	Scalable RRAM Technology for Advanced Memory and Intelligent Computing	Peking University	Zhongda Lecture Hall 中大报告厅
2026/7/8	10:20-10:50	Keynote Speech	KN16	Yang Chai	Bioinspired In-Sensor Computing for Artificial Vision	The Hong Kong Polytechnic University	VIP201 洁行厅
2026/7/8	10:20-10:50	Keynote Speech	KN17	James E. Morris	Pseudo-Inductance and Electron Hopping in Discontinuous Metal Thin Films	Portland State University	VIP210 以行厅
2026/7/8	10:20-10:50	Keynote Speech	KN18	Federico Rosei	Energy Challenges from the materials perspective	University of Trieste	VIP211 躬行厅
2026/7/8	10:50-11:50	Parallel Sessions (See Details Below)					
2026/7/8	12:00-13:30	Lunch					
2026/7/8	13:30-14:00	Keynote Speech	KN19	Oliver Schmidt	Assembly and Self-Assembly of Autonomous Microrobots – Following Nature's Principles	Chemnitz University of Technology	Zhongda Lecture Hall 中大报告厅
2026/7/8	13:30-14:00	Keynote Speech	KN20	Jianfeng Zang	Implantable soft acoustic hydrogels for ultrasound sensors on monitoring physiological signals	Huazhong University of Science and Technology	VIP201 洁行厅
2026/7/8	14:00-18:10	Parallel Sessions (See Details Below)					

Date	Time	#	ID	Presenter	Title	Affiliation	Session Code	Session Topic	Submission Profile	Venue (code)	Venue (EN)
2026/7/6	PARALLEL SESSIONS										
**	Session Chair: Qisheng Wu, Suzhou Laboratory										
2026/7/6	10:50-11:10	Invited Talk	135	Tingzheng Hou	AI-Driven Design of Solid-State Electrolyte Materials and Interphases	Tsinghua University	D2-MR02-AM	AI for Nanomaterials Design and Fabrication - I	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/6	11:10-11:30	Invited Talk	138	Taehun Lee	AI-Driven Discovery of Active Motifs in Energy Materials	Daegu Gyeongbuk Institute of Science & Technology	D2-MR02-AM	AI for Nanomaterials Design and Fabrication - I	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/6	11:30-11:50	Invited Talk	165	Yizhou Zhu	Regulating Surface Faceting as a Kinetic Switch for Core-shell Nanoparticle Crystallization Pathways	Westlake University	D2-MR02-AM	AI for Nanomaterials Design and Fabrication - I	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/6	Lunch										
**	Session Chair: Lin Lin, Tongji University Session Chair: Yue Sun, Chengdu University of Technology										
2026/7/6	10:50-11:10	Invited Talk	243	Lin Lin	A Dual Modal Analysis Framework for Vagus Nerve Stimulation Evoked Gastrointestinal Responses in Rabbits	Tongji University	D2-MR03-AM	Selected Areas in Nano-Scale Communications	Selected Areas in Nano-Scale Communications: 3nd Asia-Pacific Workshop on Molecular Communications (4ujrr)	MR03	VIP201 清行厅
2026/7/6	11:10-11:30	Invited Talk	247	Lin Lin	Cross-Limb Neural Compensation via Intent Decoding for Personalized Gait Restoration	Tongji University	D2-MR03-AM	Selected Areas in Nano-Scale Communications	Selected Areas in Nano-Scale Communications: 3nd Asia-Pacific Workshop on Molecular Communications (4ujrr)	MR03	VIP201 清行厅
2026/7/6	11:30-11:50	Invited Talk	293	Yue Sun	A Swarm Intelligence Triadic Framework for Hybrid In Vivo Computation	Chengdu University of Technology	D2-MR03-AM	Selected Areas in Nano-Scale Communications	Selected Areas in Nano-Scale Communications: 3nd Asia-Pacific Workshop on Molecular Communications (4ujrr)	MR03	VIP201 清行厅
2026/7/6	Lunch										
**	Session Chair: Antonio Di Bartolomeo, Università degli Studi di Salerno Session Chair: Deyi Fu, Xiamen University										
2026/7/6	10:50-11:10	Invited Talk	236	Jaroslav Pawlowski	Valley qubits and qutrits in 2D nanostructures	Wroclaw University of Science and Technology	D2-MR04-AM	Single Photon and Single Electron with 2D Materials	Single Photon and Single Electron with 2D Materials (7cag6)	MR04	VIP210 以行厅
2026/7/6	11:10-11:30	Invited Talk	317	Shengxi Huang	Improving Single Photon Emission From vdW Materials via Atomic Engineering	Rice University	D2-MR04-AM	Single Photon and Single Electron with 2D Materials	Single Photon and Single Electron with 2D Materials (7cag6)	MR04	VIP210 以行厅
2026/7/6	11:30-11:50	Invited Talk	136	Antón Solanas	On Demand Single Photon Sources With Two-Dimensional Materials	Universidad Autonoma de Madrid	D2-MR04-AM	Single Photon and Single Electron with 2D Materials	Single Photon and Single Electron with 2D Materials (7cag6)	MR04	VIP210 以行厅
2026/7/6	Lunch										
**	Session Chair: Tiankai Zhang, Southeast University Session Chair: Guixiang Li, Southeast University										
2026/7/6	10:50-11:10	Invited Talk	522	Lan Fu	Semiconductor Nanowire Array Materials and Devices for Optoelectronic Applications	The Australian National University	D2-MR05-AM	Perovskite Optoelectronics & Nanophotonics	Nano-optoelectronics and neuromorphic systems (b2659)	MR05	VIP211 躬行厅
2026/7/6	11:10-11:30	Invited Talk	272	Xiaoming Zhao	Accelerated Aging of Perovskite Solar Cells	Nanjing University of Aeronautics and Astronautics	D2-MR05-AM	Perovskite Optoelectronics & Nanophotonics	Perovskite Optoelectronic Materials and Devices: From Fundamentals to Applications (c9cqp)	MR05	VIP211 躬行厅
2026/7/6	11:30-11:50	Invited Talk	396	Wenbao Xu	High-Performance Perovskite/Silicon Tandem Solar Cells Via a Rationally Designed Packing of Self-Assembled Molecules	Southeast University	D2-MR05-AM	Perovskite Optoelectronics & Nanophotonics	Perovskite Optoelectronic Materials and Devices: From Fundamentals to Applications (c9cqp)	MR05	VIP211 躬行厅
2026/7/6	11:50-12:05	Oral Presentation	88	Zijian Pan	A Self-Aligned nMAG/3D-Si Hybrid Nanostripe Photodetector for Polarization-Sensitive Infrared Detection	Zhejiang University	D2-MR05-AM	Perovskite Optoelectronics & Nanophotonics	Nano-Optics, Nanophotonics, and Nano-Optoelectronics	MR05	VIP211 躬行厅
2026/7/6	Lunch										
**	Session Chair: You Wang, Nanjing University of Aeronautics and Astronautics Session Chair: Yifan Yuan, Nanjing University of Aeronautics and Astronautics										

Date	Time	#	ID	Presenter	Title	Affiliation	Session Code	Session Topic	Submission Profile	Venue (code)	Venue (EN)
2026/7/6	10:50-11:10	Invited Talk	126	Cheng He	Modeling and Analysis of Built-In Self-Repair for OTP-MRAM	Southeast University	D2-MR06-AM	Modeling and Simulation tools for emerging nanoscale circuits - I	Modeling and Simulation tools for emerging nanoscale circuits (41h91)	MR06	VIP208 博学院
2026/7/6	11:10-11:30	Invited Talk	145	Kaili Zhang	High-Density In-Memory Ising Computing Enabled by VGSOT-MTJ Based Spin Model	State Key Laboratory of Spintronics, Hangzhou International Innovation Institute, Beihang University, Hangzhou	D2-MR06-AM	Modeling and Simulation tools for emerging nanoscale circuits - I	Modeling and Simulation tools for emerging nanoscale circuits (41h91)	MR06	VIP208 博学院
2026/7/6	11:30-11:50	Invited Talk	170	Hongjie Yin	Compact Probabilistic Modeling of Voltage Controlled MTJ towards Efficient Ising Machines	Southeast University	D2-MR06-AM	Modeling and Simulation tools for emerging nanoscale circuits - I	Modeling and Simulation tools for emerging nanoscale circuits (41h91)	MR06	VIP208 博学院
2026/7/6	Lunch										
**	Session Chair: Shiyu Chen, Fudan University Session Chair: Roza Kotlyar, Kepler Computing Inc										
2026/7/6	10:50-11:10	Invited Talk	68	Hoon Ryu	Computational Investigation of Quantum Memory Logic Implemented with Electron Spins in Silicon Devices	Kumoh National Institute of Technology	D2-MR07-AM	First-Principles Engineering of Novel Materials and Devices - I	First-principles engineering of electronic, ionic, magnetic and transport properties of novel materials and devices (1pfcx)	MR07	VIP206 向学院
2026/7/6	11:10-11:30	Invited Talk	403	Luiz Felipe Aguiusky	A DFT and Quantum Transport Study of Electron Transport Properties in Doped Germanium Thin Films	University of Glasgow	D2-MR07-AM	First-Principles Engineering of Novel Materials and Devices - I	First-principles engineering of electronic, ionic, magnetic and transport properties of novel materials and devices (1pfcx)	MR07	VIP206 向学院
2026/7/6	11:30-11:50	Invited Talk	318	Lang Zeng	Multiscale Electro-Thermal Simulation of Stacked Transistors: From Quantum Transport to Cell-Level Analysis	Beihang University	D2-MR07-AM	First-Principles Engineering of Novel Materials and Devices - I	First-principles engineering of electronic, ionic, magnetic and transport properties of novel materials and devices (1pfcx)	MR07	VIP206 向学院
2026/7/6	Lunch										
**	Session Chair: Wei Cao, University of California Santa Barbara Session Chair: Haiding Sun, University of Science and Technology of China										
2026/7/6	10:50-11:10	Invited Talk	157	Yuanyuan Hu	Organic Semiconductor Doping Technology and Device Applications	Hunan University	D2-MR08-AM	Advanced optoelectronic materials and devices - I	Advanced optoelectronic materials and devices (cg4i8)	MR08	VIP205 思学院
2026/7/6	11:10-11:30	Invited Talk	224	Jiahao Kang	Homogeneous Integration of Diameter-Engineered Carbon Nanotube Thin-Film Transistors for Emerging Displays	Peking University	D2-MR08-AM	Advanced optoelectronic materials and devices - I	Advanced optoelectronic materials and devices (cg4i8)	MR08	VIP205 思学院
2026/7/6	11:30-11:50	Invited Talk	338	Ryota Kabe	Trap-Induced Luminescence in Organic Semiconductors	Okinawa Institute of Science and Technology Graduate University	D2-MR08-AM	Advanced optoelectronic materials and devices - I	Advanced optoelectronic materials and devices (cg4i8)	MR08	VIP205 思学院
2026/7/6	Lunch										
**	Session Chair: Xinge Yu, City University of Hong Kong Session Chair: Jiaqi Liu, City University of Hong Kong										
2026/7/6	10:50-11:10	Invited Talk	322	Ting Lei	Semiconducting Hydrogel Circuits and Applications	Peking University	D2-MR09-AM	Functional Soft Materials for Bio-Integrated Nanomedicine	Functional Soft Materials for Bio-Integrated Nanomedicine (gm459)	MR09	VIP203 恒学院
2026/7/6	11:10-11:30	Invited Talk	383	Hong-Joon Yoon	Ultrasound-Driven Contact Electrification via Acoustic Impedance Matching	Gachon University	D2-MR09-AM	Functional Soft Materials for Bio-Integrated Nanomedicine	Functional Soft Materials for Bio-Integrated Nanomedicine (gm459)	MR09	VIP203 恒学院
2026/7/6	11:30-11:50	Invited Talk	465	Yiyuan Yang	Application of Intelligent Biointerfaces to Translational Neuro-Biomedicine	National University of Singapore	D2-MR09-AM	Functional Soft Materials for Bio-Integrated Nanomedicine	Functional Soft Materials for Bio-Integrated Nanomedicine (gm459)	MR09	VIP203 恒学院
2026/7/6	11:50-12:05	Oral Presentation	438	Samia Kanwal	Smart Theranostic Skin Dressing for ROS Sensing and Scavenging	Italian Institute of Technology	D2-MR09-AM	Functional Soft Materials for Bio-Integrated Nanomedicine	Functional Soft Materials for Bio-Integrated Nanomedicine (gm459)	MR09	VIP203 恒学院
2026/7/6	Lunch										
**	Session Chair: Tingzheng Hou, Tsinghua University										
2026/7/6	14:00-14:20	Invited Talk	434	Feng Ding	Epitaxy of Two-Dimensional Materials Growth	Suzhou National Laboratory	D2-MR02-PM-A	AI for Nanomaterials Design and Fabrication - II	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/6	14:20-14:40	Invited Talk	309	Jian Sun	The Recent Advances of MAGUS on Low-Dimensional and Confined Systems	Nanjing University	D2-MR02-PM-A	AI for Nanomaterials Design and Fabrication - II	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/6	14:40-15:00	Invited Talk	285	Sheng Gong	A Full-Stack Atomistic Simulation and AI Toolkit for Electrolytes	ByteDance Seed	D2-MR02-PM-A	AI for Nanomaterials Design and Fabrication - II	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅

Date	Time	#	ID	Presenter	Title	Affiliation	Session Code	Session Topic	Submission Profile	Venue (code)	Venue (EN)
2026/7/6	15:00-15:20	Invited Talk	239	Shuaihua Lu	Digital Twin Platform for Semiconductor Material Discovery and Growth Simulation	City University of Hong Kong	D2-MR02-PM-A	AI for Nanomaterials Design and Fabrication - II	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/6	Coffee Break										
**	Session Chair: Si-Ping Gao, Nanjing University of Aeronautics and Astronautics Session Chair: Boping Wu, JCET Group										
2026/7/6	14:00-14:20	Invited Talk	325	Boping Wu	From Wafer to System: Advanced Packaging Solutions for Heterogenous Integration and Chiplets	JCET Group	D2-MR03-PM-A	Recent Advances in Heterogenous Integration and Chiplets	Recent Advances in Heterogenous Integration and Chiplets (337k9)	MR03	VIP201 洁行厅
2026/7/6	14:20-14:40	Invited Talk	351	Lingxiang Yin	Communication-Centric Chiplet Architectures for Scalable AI Training	Nanjing University of Aeronautics and Astronautics	D2-MR03-PM-A	Recent Advances in Heterogenous Integration and Chiplets	Recent Advances in Heterogenous Integration and Chiplets (337k9)	MR03	VIP201 洁行厅
2026/7/6	14:40-14:55	Oral Presentation	74	Yunfei Xie	Cs0.05(FA0.98MA0.02)0.95Pb(I0.98Br0.02)3-CMOS Image Sensor for Broadband (UV-Vis-NIR) Photodetection with 99.997% Pixel Functionality	Zhejiang University	D2-MR03-PM-A	Recent Advances in Heterogenous Integration and Chiplets	Heterogenous Integration and Chiplets	MR03	VIP201 洁行厅
2026/7/6	14:55-15:10	Oral Presentation	207	Mingyi Zhou	A Low-Noise CMOS Readout Circuit for Graphene/Ge Photodetector Arrays	Zhejiang University	D2-MR03-PM-A	Recent Advances in Heterogenous Integration and Chiplets	Heterogenous Integration and Chiplets	MR03	VIP201 洁行厅
2026/7/6	15:10-15:25	Oral Presentation	395	Yang Yan	Multiple Die Management in Chiplet-based Architecture	AMD	D2-MR03-PM-A	Recent Advances in Heterogenous Integration and Chiplets	Heterogenous Integration and Chiplets	MR03	VIP201 洁行厅
2026/7/6	Coffee Break										
**	Session Chair: Fengqiu Wang, Nanjing University										
2026/7/6	14:00-14:20	Invited Talk	457	Taewan Kim	Wafer-Scale MOCVD Growth and Low-Resistance Ohmic Contacts for Ideal 2D TMD Semiconductor Transistors	University of Seoul	D2-MR04-PM-A	2D Materials Synthesis and Inspection	GO WAFER-SCALE: 2D Materials Synthesis and Inspection (628u9)	MR04	VIP210 以行厅
2026/7/6	14:20-14:40	Invited Talk	458	Thomas Dieing	Advanced Products for Wafer-Scale Optical Characterization of 2D Materials	Oxford Instruments	D2-MR04-PM-A	2D Materials Synthesis and Inspection	GO WAFER-SCALE: 2D Materials Synthesis and Inspection (628u9)	MR04	VIP210 以行厅
2026/7/6	14:40-15:00	Invited Talk	456	Kyoung-Duck Park	Tip-enhanced nano-spectroscopy and imaging of 2D semiconductors for applications in semiconductor metrology and inspection	Pohang University of Science and Technology (POSTECH)	D2-MR04-PM-A	2D Materials Synthesis and Inspection	GO WAFER-SCALE: 2D Materials Synthesis and Inspection (628u9)	MR04	VIP210 以行厅
2026/7/6	15:00-15:20	Invited Talk	375	Joonki Suh	van der Waals-Coupled Chalcogenides for Nanoelectronics	Korea Advanced Institute of Science and Technology	D2-MR04-PM-A	2D Materials Synthesis and Inspection	GO WAFER-SCALE: 2D Materials Synthesis and Inspection (628u9)	MR04	VIP210 以行厅
2026/7/6	Coffee Break										
**	Session Chair: Khurram Shehzad, Silesian University of Technology Session Chair: Srikrishna Chanakya Bodepudi, Zhejiang University										
2026/7/6	14:00-14:20	Invited Talk	137	Yan Wang	Dielectrics for 2D Semiconductors	University of Cambridge	D2-MR05-PM-A	Silicon/2D Materials Heterostructures	Silicon/2D Materials Heterostructures: From devices to integration (f93d6)	MR05	VIP211 躬行厅
2026/7/6	14:20-14:40	Invited Talk	281	Kai Wang	Computational Pixel Sensor and its Applications in Image Sensors	Sun Yat-sen University	D2-MR05-PM-A	Silicon/2D Materials Heterostructures	Silicon/2D Materials Heterostructures: From devices to integration (f93d6)	MR05	VIP211 躬行厅
2026/7/6	14:40-15:00	Invited Talk	301	Valerio Piazza	Dimensionally Hybrid Heterostructures: from Hetero-integration to Nanoscale Functional Mapping	École polytechnique fédérale de Lausanne	D2-MR05-PM-A	Silicon/2D Materials Heterostructures	Silicon/2D Materials Heterostructures: From devices to integration (f93d6)	MR05	VIP211 躬行厅
2026/7/6	15:00-15:20	Invited Talk	382	Hubert Szczołka	Dipole Interactions in SAW Gas Sensors Hybrid Structure 128deg YX LiNbO3 With SiO2	Silesian University of Technology	D2-MR05-PM-A	Silicon/2D Materials Heterostructures	Silicon/2D Materials Heterostructures: From devices to integration (f93d6)	MR05	VIP211 躬行厅
2026/7/6	Coffee Break										
**	Session Chair: You Wang, Nanjing University of Aeronautics and Astronautics Session Chair: Yifan Yuan, Nanjing University of Aeronautics and Astronautics										
2026/7/6	14:00-14:20	Invited Talk	180	Ye Lu	TCAD-GPT: Multimodal Large Language Model Framework for Complete and Rapid TCAD Simulation	Fudan University	D2-MR06-PM-A	Modeling and Simulation tools for emerging nanoscale circuits - II	Modeling and Simulation tools for emerging nanoscale circuits (41h91)	MR06	VIP208 博学厅
2026/7/6	14:20-14:40	Invited Talk	186	Chuhao Chen	Unified Modeling of Small-Signal Parameters in Nanosheet FETs for Sub-5 nm RF IC Design	Sun Yat-sen University	D2-MR06-PM-A	Modeling and Simulation tools for emerging nanoscale circuits - II	Modeling and Simulation tools for emerging nanoscale circuits (41h91)	MR06	VIP208 博学厅
2026/7/6	14:40-15:00	Invited Talk	241	Fei Liu	Enhancing the Switching Ratio of Hafnia-based Ferroelectric Tunnel Junctions via Defect Engineering	Peking University	D2-MR06-PM-A	Modeling and Simulation tools for emerging nanoscale circuits - II	Modeling and Simulation tools for emerging nanoscale circuits (41h91)	MR06	VIP208 博学厅

Date	Time	#	ID	Presenter	Title	Affiliation	Session Code	Session Topic	Submission Profile	Venue (code)	Venue (EN)
2026/7/6	15:00-15:20	Invited Talk	354	Jiwon Chang	Semi-Classical Monte Carlo Carrier Transport Simulation for Advanced Devices and Emerging Materials	Yonsei University	D2-MR06-PM-A	Modeling and Simulation tools for emerging nanoscale circuits - II	Modeling and Simulation tools for emerging nanoscale circuits (41h91)	MR06	VIP208 博学院
2026/7/6	Coffee Break										
**	Session Chair: Shiyu Chen, Fudan University Session Chair: Roza Kotlyar, Kepler Computing Inc										
2026/7/6	14:00-14:20	Invited Talk	365	Yeonghun Lee	Topological Insulator Field-Effect Transistors: From Performance Benchmarking to Low-Power Operation	Incheon National University	D2-MR07-PM-A	First-Principles Engineering of Novel Materials and Devices - II	First-principles engineering of electronic, ionic, magnetic and transport properties of novel materials and devices (1pfcx)	MR07	VIP206 向学院
2026/7/6	14:20-14:40	Invited Talk	297	Zhixin Guo	Electrically Controlled Spin Transport in 2D Multiferroic Materials and Devices: From vdW Heterostructures to Fractional Quantum Multiferroics	Xi'an Jiaotong University	D2-MR07-PM-A	First-Principles Engineering of Novel Materials and Devices - II	First-principles engineering of electronic, ionic, magnetic and transport properties of novel materials and devices (1pfcx)	MR07	VIP206 向学院
2026/7/6	14:40-15:00	Invited Talk	464	Tibor Grasser	Physics-Based Modeling of Hysteresis in 2D-Material Transistors	TU Wien	D2-MR07-PM-A	First-Principles Engineering of Novel Materials and Devices - II	First-principles engineering of electronic, ionic, magnetic and transport properties of novel materials and devices (1pfcx)	MR07	VIP206 向学院
2026/7/6	15:00-15:20	Invited Talk	329	Ke Xia	Large-Scale Quantum Transport Simulation for Co Film	Southeast University	D2-MR07-PM-A	First-Principles Engineering of Novel Materials and Devices - II	First-principles engineering of electronic, ionic, magnetic and transport properties of novel materials and devices (1pfcx)	MR07	VIP206 向学院
2026/7/6	Coffee Break										
**	Session Chair: Wei Cao, University of California Santa Barbara Session Chair: Haiding Sun, University of Science and Technology of China										
2026/7/6	14:00-14:20	Invited Talk	343	Haiding Sun	III-Nitrides Integrated Ultraviolet Optoelectronics for Communications and Spectral Imaging	University of Science and Technology of China	D2-MR08-PM-A	Advanced optoelectronic materials and devices - II	Advanced optoelectronic materials and devices (cg4i8)	MR08	VIP205 思学院
2026/7/6	14:20-14:40	Invited Talk	347	Wei Liu	Two-dimensional Bi2O2S Nanosheets for Superlinear Photodetection Beyond the Blinding Limit	Fujian Institute of Research on the Structures, Chinese Academy of Sciences	D2-MR08-PM-A	Advanced optoelectronic materials and devices - II	Advanced optoelectronic materials and devices (cg4i8)	MR08	VIP205 思学院
2026/7/6	14:40-15:00	Invited Talk	308	Hongjian Li	High Performance Long Wavelength InGaN Micro-LEDs Achieving 1.01 GHz Bandwidth	Xiamen University	D2-MR08-PM-A	Advanced optoelectronic materials and devices - II	Advanced optoelectronic materials and devices (cg4i8)	MR08	VIP205 思学院
2026/7/6	15:00-15:15	Oral Presentation	400	Lan Fu	InGaAs/InP Quantum Well Nanowire Array Based Mid-Infrared Photodetectors	The Australian National University	D2-MR08-PM-A	Advanced optoelectronic materials and devices - II	Nano-Optics, Nanophotonics, and Nano-Optoelectronics	MR08	VIP205 思学院
2026/7/6	Coffee Break										
**	Session Chair: Siting Liu, ShanghaiTech University Session Chair: Honglan Jiang, Shanghai Jiao Tong University										
2026/7/6	14:00-14:20	Invited Talk	245	Bonan Yan	Ising-Inspired Multi-State Annealer with Efficient Parallel Probabilistic Computing	Peking University	D2-MR09-PM-A	Efficient Ising Machine Implementation and its Applications	Efficient Ising Machine Implementation and its Applications (22gg7)	MR09	VIP203 恒学院
2026/7/6	14:20-14:40	Invited Talk	248	Lehan Liu	A Versatile CMOS Ising Machine Based on Simulated Bifurcation	ShanghaiTech University	D2-MR09-PM-A	Efficient Ising Machine Implementation and its Applications	Efficient Ising Machine Implementation and its Applications (22gg7)	MR09	VIP203 恒学院
2026/7/6	14:40-15:00	Invited Talk	251	Wenhui Zhang	Optimization of Time-multiplexed Constant Multiplication via Ising Model	Shanghai Jiao Tong University	D2-MR09-PM-A	Efficient Ising Machine Implementation and its Applications	Efficient Ising Machine Implementation and its Applications (22gg7)	MR09	VIP203 恒学院
2026/7/6	15:00-15:20	Invited Talk	273	Xianmin Huang	A Scalable Compute-in-Memory Ising Machine for Combinatorial Optimization Problems	Zhejiang University	D2-MR09-PM-A	Efficient Ising Machine Implementation and its Applications	Efficient Ising Machine Implementation and its Applications (22gg7)	MR09	VIP203 恒学院
2026/7/6	Coffee Break										
**	Session Chair: Yizhou Zhu, Westlake University Session Chair: Yuanhui Sun, Suzhou National Laboratory										
2026/7/6	15:50-16:10	Invited Talk	298	Manyi Yang	Machine Learning Potentials-Accelerated Microscopic Mechanism Study of Complex Reaction Processes	Nanjing University	D2-MR02-PM-B	AI for Nanomaterials Design and Fabrication - III	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/6	16:10-16:30	Invited Talk	304	Lu Qiu	Theory of Sigma Bond Resonance in Flat Boron Materials	City University of Hong Kong	D2-MR02-PM-B	AI for Nanomaterials Design and Fabrication - III	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/6	16:30-16:50	Invited Talk	313	Chen Shen	An Intelligent Closed-Loop Framework for Semiconductor Materials Design	Suzhou National Laboratory	D2-MR02-PM-B	AI for Nanomaterials Design and Fabrication - III	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/6	16:50-17:10	Invited Talk	379	Hongxia Hao	Beyond Static Convergence: Uncertainty-Driven Active Learning for Reliable Long-Scale Atomistic Dynamics for Large Systems	Shanghai Artificial Intelligence Laboratory	D2-MR02-PM-B	AI for Nanomaterials Design and Fabrication - III	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅

Date	Time	#	ID	Presenter	Title	Affiliation	Session Code	Session Topic	Submission Profile	Venue (code)	Venue (EN)
2026/7/6	17:10-17:30	Invited Talk	326	Qionghua Zhou	Machine Learning Assisted 2D Materials Design based on Small Data	Southeast University	D2-MR02-PM-B	AI for Nanomaterials Design and Fabrication - III	AI for Nanomaterials Design and Fabrication (c1195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/6	17:30-17:50	Invited Talk	155	Milad Abolhasani	Data-Rich and Flexible Autonomous Labs for Accelerated Nanomaterials Discovery	North Carolina State University	D2-MR02-PM-B	AI for Nanomaterials Design and Fabrication - III	AI for Nanomaterials Design and Fabrication (c1195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/6	Dinner										
**	Session Chair: Yongfeng Mei, Fudan University Session Chair: Wen Huang, Hefei University of Technology										
2026/7/6	15:50-16:10	Invited Talk	525	Hengxing Ji	Phosphorus Based Anode Materials for Fast-Charge Li-ion Batteries	University of Science and Technology of China	D2-MR03-PM-B	Nanoarchitectures: From Assembly to Applications	Nanoarchitectures: From Assembly to Applications (9w16s)	MR03	VIP201 洁行厅
2026/7/6	16:10-16:30	Invited Talk	526	Jianjun Zhang	SiGe Nanostructures for Quantum Computing	Institute of Physics, Chinese Academy of Sciences	D2-MR03-PM-B	Nanoarchitectures: From Assembly to Applications	Nanoarchitectures: From Assembly to Applications (9w16s)	MR03	VIP201 洁行厅
2026/7/6	16:30-16:45	Oral Presentation	289	Jiaxiang Zhang	Large-Scale Integrated Quantum Photonic Circuits on Lithium Niobate Platform	Shanghai Institute of Microsystem and Information Science, Chinese Academy of Science	D2-MR03-PM-B	Nanoarchitectures: From Assembly to Applications	Nanoarchitectures: From Assembly to Applications (9w16s)	MR03	VIP201 洁行厅
2026/7/6	16:45-17:00	Oral Presentation	357	Yuehang Xu	Heterogeneous Integration Technology for Flexible Power Amplifiers	University of Electronic Science and Technology of China	D2-MR03-PM-B	Nanoarchitectures: From Assembly to Applications	Nanoarchitectures: From Assembly to Applications (9w16s)	MR03	VIP201 洁行厅
2026/7/6	17:00-17:15	Oral Presentation	459	Gaoshan Huang	Three-Dimensional Photodetectors Based on Rolled-Up Nanomembranes: From Energy Localization to Neural-Network-Assisted Angle Detection	Fudan University	D2-MR03-PM-B	Nanoarchitectures: From Assembly to Applications	Nanoarchitectures: From Assembly to Applications (9w16s)	MR03	VIP201 洁行厅
2026/7/6	17:15-17:30	Oral Presentation	406	Keke Zheng	Self-Rolled-Up Membrane Motion Characterization via A Robust Microwave Radar Interferometry Technique	Shanghai Jiao Tong University	D2-MR03-PM-B	Nanoarchitectures: From Assembly to Applications	Nanoarchitectures: From Assembly to Applications (9w16s)	MR03	VIP201 洁行厅
2026/7/6	17:30-17:45	Oral Presentation	433	Libo Ma	Architected Hybrid Micro-Nanostructures for Optical Mode Control	Leibniz IFW-Dresden	D2-MR03-PM-B	Nanoarchitectures: From Assembly to Applications	Nanoarchitectures: From Assembly to Applications (9w16s)	MR03	VIP201 洁行厅
2026/7/6	17:45-18:00	Oral Presentation	55	Vladimir M. Fomin	New Developments in Topological, Chiral and Reconfigurable Superconductor Nanoarchitectures	Leibniz Institute for Solid State and Materials Research (IFW) Dresden	D2-MR03-PM-B	Nanoarchitectures: From Assembly to Applications	Nanoarchitectures: From Assembly to Applications (9w16s)	MR03	VIP201 洁行厅
2026/7/6	Dinner										
**	Session Chair: Kyoung-Duck Park, Pohang University of Science and Technology Session Chair: Srikrishna Chanakya Bodepudi, Zhejiang University										
2026/7/6	15:50-16:10	Invited Talk	449	Yafei Meng	Novel Ultrafast Lasers Enabling New Modalities for Fast Nonlinear Imaging	NPI Lasers	D2-MR04-PM-B	2D Materials Synthesis and Inspection & Heterostructures with Silicon	GO WAFER-SCALE: 2D Materials Synthesis and Inspection (628u9)	MR04	VIP210 以行厅
2026/7/6	16:10-16:30	Invited Talk	430	Khurram Shehzad	Thick-Film Perovskites for X-Ray Detection	Silesian University of Technology	D2-MR04-PM-B	2D Materials Synthesis and Inspection & Heterostructures with Silicon	Silicon/2D Materials Heterostructures: From devices to integration (f93d6)	MR04	VIP210 以行厅
2026/7/6	16:30-16:50	Invited Talk	447	Kibum Kang	Process and Equipment Platform for Scalable 2D Semiconductor Growth	Korea Advanced Institute of Science and Technology	D2-MR04-PM-B	2D Materials Synthesis and Inspection & Heterostructures with Silicon	GO WAFER-SCALE: 2D Materials Synthesis and Inspection (628u9)	MR04	VIP210 以行厅
2026/7/6	16:50-17:05	Oral Presentation	256	Xilu Zou	Robust Epitaxy of Single-Crystal Transition-Metal Dichalcogenides on Lanthanum-Passivated Sapphire	Nanjing University	D2-MR04-PM-B	2D Materials Synthesis and Inspection & Heterostructures with Silicon	GO WAFER-SCALE: 2D Materials Synthesis and Inspection (628u9)	MR04	VIP210 以行厅
2026/7/6	17:05-17:20	Oral Presentation	412	Xinyi Xu	A Unified Broadband Optoelectronic Platform based on 2D Material Integrated Silicon photodetectors for Single-Pixel Imaging and Computing	Zhejiang University	D2-MR04-PM-B	2D Materials Synthesis and Inspection & Heterostructures with Silicon	Silicon/2D Materials Heterostructures: From devices to integration (f93d6)	MR04	VIP210 以行厅
2026/7/6	Dinner										
**	Session Chair: Jienan Chen, University of Electronic Science and Technology of China Session Chair: Kuncai Zhong, Hunan University										
2026/7/6	15:50-16:10	Invited Talk	201	Kuncai Zhong	Fast and Area-Efficient Minimal AND-Inverter Tree Synthesis for Stochastic Computing	Hunan University	D2-MR05-PM-B	Probabilistic Computing, Nanoelectronics & Heterogeneous Integration	Probabilistic and Novel-Encoding Computing Circuits for AI-Oriented Nano-Scale Computing (151q7)	MR05	VIP211 躬行厅
2026/7/6	16:10-16:30	Invited Talk	146	Meng Li	STSCA: Scalable Tensor-Train Stochastic Computing With Stabilized Arithmetic for High-Dimensional Nonlinear Operators	Peking University	D2-MR05-PM-B	Probabilistic Computing, Nanoelectronics & Heterogeneous Integration	Probabilistic and Novel-Encoding Computing Circuits for AI-Oriented Nano-Scale Computing (151q7)	MR05	VIP211 躬行厅
2026/7/6	16:30-16:50	Invited Talk	173	Jienan Chen	Stochastic Computing for ADC-Less Computing in Memory: Modeling and Algorithm	University of Electronic Science and Technology of China	D2-MR05-PM-B	Probabilistic Computing, Nanoelectronics & Heterogeneous Integration	Probabilistic and Novel-Encoding Computing Circuits for AI-Oriented Nano-Scale Computing (151q7)	MR05	VIP211 躬行厅
2026/7/6	16:50-17:05	Oral Presentation	162	Zexi Li	RePreSC: Enabling Reconfigurable Precision in Stochastic Computing	Shanghai Jiao Tong University	D2-MR05-PM-B	Probabilistic Computing, Nanoelectronics & Heterogeneous Integration	Probabilistic and Novel-Encoding Computing Circuits for AI-Oriented Nano-Scale Computing (151q7)	MR05	VIP211 躬行厅

Date	Time	#	ID	Presenter	Title	Affiliation	Session Code	Session Topic	Submission Profile	Venue (code)	Venue (EN)
2026/7/6	17:05-17:20	Oral Presentation	161	Marcel Walter	Operational Domain Sketching for Silicon Dangling Bond Logic	Technical University of Munich	D2-MR05-PM-B	Probabilistic Computing, Nanoelectronics & Heterogeneous Integration	Nanoelectronics	MR05	VIP211 躬行厅
2026/7/6	17:20-17:35	Oral Presentation	191	Marcel Walter	Holistic Physical Design for Silicon Atomic Logic	Technical University of Munich	D2-MR05-PM-B	Probabilistic Computing, Nanoelectronics & Heterogeneous Integration	Nanoelectronics	MR05	VIP211 躬行厅
2026/7/6	17:35-17:50	Oral Presentation	58	Maria Ayub	A Novel Approach to Secure Execution in Embedded Systems: Custom ISA and Compiler Binding	National University of Science and Technology	D2-MR05-PM-B	Probabilistic Computing, Nanoelectronics & Heterogeneous Integration	Nanoelectronics	MR05	VIP211 躬行厅
2026/7/6	Dinner										
**	Session Chair: Jean-Pierre Leburton, University of Illinois Urbana-Champaign Session Chair: Binquan Luan, Suzhou Institute of Biomedical Engineering and Technology, Chinese Academy of Sciences										
2026/7/6	15:50-16:10	Invited Talk	336	Zhen Zhang	Advanced Silicon Chip Technology for Non-Invasive Single-Molecule Trapping and Analysis	Uppsala University	D2-MR06-PM-B	Merging Life Science with Physical Science for New Functional Devices - I	Merging Life Science with Physical Science for New Functional Devices (5yvw)	MR06	VIP208 博学厅
2026/7/6	16:10-16:30	Invited Talk	401	Cuifeng Ying	Resolving Single-Protein Conformational Dynamics Using Nanoaperture Optical Tweezers	Nottingham Trent University	D2-MR06-PM-B	Merging Life Science with Physical Science for New Functional Devices - I	Merging Life Science with Physical Science for New Functional Devices (5yvw)	MR06	VIP208 博学厅
2026/7/6	16:30-16:50	Invited Talk	393	Qing Chen	Ultrafine Metallic Nanopores	Hong Kong University of Science and Technology	D2-MR06-PM-B	Merging Life Science with Physical Science for New Functional Devices - I	Merging Life Science with Physical Science for New Functional Devices (5yvw)	MR06	VIP208 博学厅
2026/7/6	16:50-17:10	Invited Talk	511	Hirohito Yamazaki	Photothermal Solid-State Nanopores for Nanofabrication and Single-Molecule Biomolecular Analysis	Nagaoka University of Technology	D2-MR06-PM-B	Merging Life Science with Physical Science for New Functional Devices - I	Merging Life Science with Physical Science for New Functional Devices (5yvw)	MR06	VIP208 博学厅
2026/7/6	17:10-17:30	Invited Talk	442	Zhouxiang Ji	Nanopore-Based Dna and Protein Sensing at the Single-Molecule Level	Xidian University	D2-MR06-PM-B	Merging Life Science with Physical Science for New Functional Devices - I	Merging Life Science with Physical Science for New Functional Devices (5yvw)	MR06	VIP208 博学厅
2026/7/6	17:30-17:50	Invited Talk	140	Yitao Long	Nanoconfinement-Controlled Electrochemistry: Nanopores Beyond Sequencing	Nanjing University	D2-MR06-PM-B	Merging Life Science with Physical Science for New Functional Devices - I	Merging Life Science with Physical Science for New Functional Devices (5yvw)	MR06	VIP208 博学厅
2026/7/6	Dinner										
**	Session Chair: Shiyu Chen, Fudan University Session Chair: Roza Kotlyar, Kepler Computing Inc										
2026/7/6	15:50-16:10	Invited Talk	333	Zhaofu Zhang	Universal Role of Dopant-VGa Complexes Induced Carrier Suppression in Si/Ge/Sn/Zr-Doped	Wuhan University	D2-MR07-PM-B	First-Principles Engineering of Novel Materials and Devices - III	First-principles engineering of electronic, magnetic and transport properties of novel materials and devices (1pfcx)	MR07	VIP206 向学厅
2026/7/6	16:10-16:30	Invited Talk	342	Byoung Don Kong	Quantization Effects at Graphene Edges in Nanoribbon Field Emitters	Pohang University of Science and Technology	D2-MR07-PM-B	First-Principles Engineering of Novel Materials and Devices - III	First-principles engineering of electronic, ionic, magnetic and transport properties of novel materials and devices (1pfcx)	MR07	VIP206 向学厅
2026/7/6	16:30-16:50	Invited Talk	356	Nobuya Mori	Modeling Quantum Transport in Silicon Nanostructures	Osaka University	D2-MR07-PM-B	First-Principles Engineering of Novel Materials and Devices - III	First-principles engineering of electronic, ionic, magnetic and transport properties of novel materials and devices (1pfcx)	MR07	VIP206 向学厅
2026/7/6	16:50-17:10	Invited Talk	363	Xabier Diaz De Cerio Palacio	Interplay Between Oxygen Diffusion and Polarization Switching in Defect-Free Hafnia Ferroelectrics	Luxembourg Institute of Science and Technology	D2-MR07-PM-B	First-Principles Engineering of Novel Materials and Devices - III	First-principles engineering of electronic, ionic, magnetic and transport properties of novel materials and devices (1pfcx)	MR07	VIP206 向学厅
2026/7/6	17:10-17:25	Oral Presentation	374	Jiahao Xie	Computation-Driven Discovery of Zero-Dimensional Metal Halides with Efficient Self-Trapped Exciton Emission	University of Toledo	D2-MR07-PM-B	First-Principles Engineering of Novel Materials and Devices - III	First-principles engineering of electronic, ionic, magnetic and transport properties of novel materials and devices (1pfcx)	MR07	VIP206 向学厅
2026/7/6	17:25-17:40	Oral Presentation	114	Marina Sparvoli	Engineering Titanium Oxide Films to Achieve High Performance Photomemristor Devices	Universidade de São Paulo	D2-MR07-PM-B	First-Principles Engineering of Novel Materials and Devices - III	Quantum, Neuromorphic, and Unconventional Computing	MR07	VIP206 向学厅
2026/7/6	Dinner										
**	Session Chair: Yansong Yang, Hong Kong University of Science and Technology Session Chair: Hao Jia, Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences										
2026/7/6	15:50-16:10	Invited Talk	310	Yansong Yang	MEMS Acoustic Waves for Communication	Hong Kong University of Science and Technology	D2-MR08-PM-B	Nanoelectromechanical Systems (NEMS)	Nanoelectromechanical Systems (NEMS) (u7e57)	MR08	VIP205 思学厅
2026/7/6	16:10-16:30	Invited Talk	444	Jiankai Zhu	NEMS-Based Sensing Using Two-Dimensional Non-Layered Materials	University of Electronic Science and Technology of China	D2-MR08-PM-B	Nanoelectromechanical Systems (NEMS)	Nanoelectromechanical Systems (NEMS) (u7e57)	MR08	VIP205 思学厅
2026/7/6	16:30-16:50	Invited Talk	473	Bo Xu	Material Characterization and Frequency Control in Two-Dimensional Nanoelectromechanical Systems	University of Electronic Science and Technology of China	D2-MR08-PM-B	Nanoelectromechanical Systems (NEMS)	Nanoelectromechanical Systems (NEMS) (u7e57)	MR08	VIP205 思学厅
2026/7/6	16:50-17:10	Invited Talk	474	Xuqian Zheng	Laser Interferometry for NEMS Resonators: Applications and Optimization	Nanjing University of Posts and Telecommunications	D2-MR08-PM-B	Nanoelectromechanical Systems (NEMS)	Nanoelectromechanical Systems (NEMS) (u7e57)	MR08	VIP205 思学厅
2026/7/6	17:10-17:30	Invited Talk	475	Luming Wang	Modulating Resonance Mode Sequencing in Nanomechanical Resonators	University of Electronic Science and Technology of China	D2-MR08-PM-B	Nanoelectromechanical Systems (NEMS)	Nanoelectromechanical Systems (NEMS) (u7e57)	MR08	VIP205 思学厅

Date	Time	#	ID	Presenter	Title	Affiliation	Session Code	Session Topic	Submission Profile	Venue (code)	Venue (EN)
2026/7/6	17:30-17:50	Invited Talk	476	Hao Jia	MEMS Sensors for Differential Thermal Analysis	Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences	D2-MR08-PM-B	Nanoelectromechanical Systems (NEMS)	Nanoelectromechanical Systems (NEMS) (u7e67)	MR08	VIP205 思学厅
2026/7/6	Dinner										
**	Session Chair: Benhui Hu, Nanjing Medical University										
	Session Chair: Yiyu Ou, Technical University of Denmark										
	Session Chair: Elena P. Ivanova, Royal Melbourne Institute of Technology University										
2026/7/6	15:50-16:10	Invited Talk	321	Benhui Hu	Robust Wireless Platforms for High-Fidelity Deep-Tissue Diagnostics and Therapeutics	Nanjing Medical University	D2-MR09-PM-B	Bio-Interfaces, Bio-Inspired Surfaces & Modeling and Simulation	Bio-Electronic Interfaces (hnapr)	MR09	VIP203 恒学厅
2026/7/6	16:10-16:30	Invited Talk	372	Yamin Zhang	Miniaturized Electrochemtronic Biomedical System for Electrotherapy and Drug Delivery	National University of Singapore	D2-MR09-PM-B	Bio-Interfaces, Bio-Inspired Surfaces & Modeling and Simulation	Bio-Electronic Interfaces (hnapr)	MR09	VIP203 恒学厅
2026/7/6	16:30-16:50	Invited Talk	131	Takeshi Ito	Development and Application of NanoSpike® Inspired by Cicada Wing Surface	Kansai University	D2-MR09-PM-B	Bio-Interfaces, Bio-Inspired Surfaces & Modeling and Simulation	Bio-Inspired Surface Nanotechnology for Industrial & Biomedical Applications (j7jv)	MR09	VIP203 恒学厅
2026/7/6	16:50-17:10	Invited Talk	153	Yiyu Ou	Nature-Inspired Surface Nanotechnology for Medical and Space Applications	Technical University of Denmark	D2-MR09-PM-B	Bio-Interfaces, Bio-Inspired Surfaces & Modeling and Simulation	Bio-Inspired Surface Nanotechnology for Industrial & Biomedical Applications (j7jv)	MR09	VIP203 恒学厅
2026/7/6	17:10-17:25	Oral Presentation	452	Jesus Jacobo Hernandez Montelongo	MoSe2 Nanocoatings on Urinary Catheters for Antibacterial Applications	Catholic University of Temuco	D2-MR09-PM-B	Bio-Interfaces, Bio-Inspired Surfaces & Modeling and Simulation	Bio-Inspired Surface Nanotechnology for Industrial & Biomedical Applications (j7jv)	MR09	VIP203 恒学厅
2026/7/6	17:25-17:40	Oral Presentation	51	Xueding Wang	Photoacoustic Chemical Imaging of the Tumor Microenvironment for Prediction of Therapeutic Efficacy in Breast Cancer	University of Michigan	D2-MR09-PM-B	Bio-Interfaces, Bio-Inspired Surfaces & Modeling and Simulation	Nano-biomedicine	MR09	VIP203 恒学厅
2026/7/6	17:40-17:55	Oral Presentation	52	Xueding Wang	Reactive Species Oxygen-Activatable CGNP-IR775c Nanoprobes Enable Longitudinal Viability Mapping of Transplanted Stem Cells via Multiwavelength Photoacoustic	University of Michigan	D2-MR09-PM-B	Bio-Interfaces, Bio-Inspired Surfaces & Modeling and Simulation	Nano-biomedicine	MR09	VIP203 恒学厅
2026/7/6	Dinner										

Date	Time	#	ID	Presenter	Title	Affiliation	Session Code	Session Topic	Submission Profile	Venue (code)	Venue (EN)
2026/7/7	PARALLEL SESSIONS										
**	Session Chair: Wei Li, Suzhou National Laboratory										
2026/7/7	10:50-11:10	Invited Talk	324	Yuanhui Sun	Mechanism-Driven Computational Design of Novel Optoelectronic Materials	Suzhou National Laboratory	D3-MR02-AM	AI for Nanomaterials Design and Fabrication - IV	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/7	11:10-11:30	Invited Talk	311	Xian Wang	Scalable Discovery of Two-Dimensional Sliding Ferroelectrics via High-Throughput Calculation and Machine Learning	Suzhou National Laboratory	D3-MR02-AM	AI for Nanomaterials Design and Fabrication - IV	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/7	11:30-11:50	Invited Talk	314	Zhenbin Wang	AI-Driven Discovery of New Materials for Experimental Synthesis	City University of Hong Kong	D3-MR02-AM	AI for Nanomaterials Design and Fabrication - IV	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/6	Lunch										
**	Session Chair: Tao Wu, ShanghaiTech University Session Chair: Qicheng Zhang, Westlake University										
2026/7/7	10:50-11:10	Invited Talk	148	Tao Wu	Piezoelectric Thin Film RF Modulators	ShanghaiTech University	D3-MR03-AM	High-Frequency Acoustics at the Nanoscale - I	High-Frequency Acoustics at the Nanoscale (w8566)	MR03	VIP201 洁行厅
2026/7/7	11:10-11:30	Invited Talk	205	Zidong Zhang	Impedance-matched High-Overtone Thickness-Shear Bulk Acoustic Resonators with Scalable Mode Volume	Nanjing University of Aeronautics and Astronautics	D3-MR03-AM	High-Frequency Acoustics at the Nanoscale - I	High-Frequency Acoustics at the Nanoscale (w8566)	MR03	VIP201 洁行厅
2026/7/7	11:30-11:50	Invited Talk	352	Qicheng Zhang	Gigahertz Integrated Phononic Circuits based on Dirac Dispersion	Westlake University	D3-MR03-AM	High-Frequency Acoustics at the Nanoscale - I	High-Frequency Acoustics at the Nanoscale (w8566)	MR03	VIP201 洁行厅
2026/7/7	Lunch										
**	Session Chair: Chao Zhu, Southeast University Session Chair: Ting Wen, Huzhou College										
2026/7/7	10:50-11:10	Invited Talk	270	Weisheng Li	Crystalline Antimony Contacts for 1-nm Node MoS ₂ Transistors	Nanjing University	D3-MR04-AM	Low-dimensional Nanomaterials and Nanoelectronics	Low-dimensional Nanomaterials and their Nanoelectronics (11c7g)	MR04	VIP210 以行厅
2026/7/7	11:10-11:30	Invited Talk	349	Yucheng Jiang	New Discoveries of Heterostructure Ferroelectricity and Elemental Ferroelectrics	Suzhou University of Science and Technology	D3-MR04-AM	Low-dimensional Nanomaterials and Nanoelectronics	Low-dimensional Nanomaterials and their Nanoelectronics (11c7g)	MR04	VIP210 以行厅
2026/7/7	11:30-11:50	Invited Talk	364	Yunjian Cao	Phase Evolution and Properties in Two-Dimensional Van der Waals Ferroelectrics CuInP2S6 with Different Cu/In Ratios	Xi'an Jiaotong University	D3-MR04-AM	Low-dimensional Nanomaterials and Nanoelectronics	Low-dimensional Nanomaterials and their Nanoelectronics (11c7g)	MR04	VIP210 以行厅
2026/7/7	11:50-12:05	Oral Presentation	253	Lei Liu	Homoepitaxial growth of large-area Rhombohedral-stacked MoS ₂	Suzhou National Laboratory	D3-MR04-AM	Low-dimensional Nanomaterials and Nanoelectronics	Low-dimensional Nanomaterials and their Nanoelectronics (11c7g)	MR04	VIP210 以行厅
2026/7/7	Lunch										
**	Session Chair: Ximeng Liu, Northwestern Polytechnical University Session Chair: Dan Wen, Northwestern Polytechnical University										
2026/7/7	10:50-11:10	Invited Talk	276	Qiang Zhao	Flexible Intelligent Sensing Materials, Devices and Systems	Nanjing University of Posts and Telecommunications; Nanjing University of Information Science and Technology	D3-MR05-AM	Advanced Flexible Electronics with Multifunctional Applications - I	Advanced Flexible Electronics with Multifunctional Applications (95h87)	MR05	VIP211 躬行厅
2026/7/7	11:10-11:30	Invited Talk	468	Kaihui Liu	Optical Crystals of 2D Materials	Peking University	D3-MR05-AM	Advanced Flexible Electronics with Multifunctional Applications - I	Advanced Flexible Electronics with Multifunctional Applications (95h87)	MR05	VIP211 躬行厅
2026/7/7	11:30-11:50	Invited Talk	362	Xinghui Wang	Integratable Micro-Power Sources for Smart Electronics	Fuzhou University	D3-MR05-AM	Advanced Flexible Electronics with Multifunctional Applications - I	Advanced Flexible Electronics with Multifunctional Applications (95h87)	MR05	VIP211 躬行厅
2026/7/7	11:50-12:05	Oral Presentation	462	Wenbo Zhao	Modulus Engineered Substrate with Vertical Soft Interconnects for Ultra-Stable Stretchable Multilayer Electronic Systems	Northwestern Polytechnical University	D3-MR05-AM	Advanced Flexible Electronics with Multifunctional Applications - I	Advanced Flexible Electronics with Multifunctional Applications (95h87)	MR05	VIP211 躬行厅
2026/7/7	Lunch										
**	Session Chair: Yitao Long, Nanjing University Session Chair: Zhen Zhang, Uppsala University										

Date	Time	#	ID	Presenter	Title	Affiliation	Session Code	Session Topic	Submission Profile	Venue (code)	Venue (EN)
2026/7/7	10:50-11:10	Invited Talk	512	Binquan Luan	Electrophoretic Transport of Single-Stranded DNA through a Two-Dimensional Nanopore Patterned on an In-Plane Heterostructure	Suzhou Institute of Biomedical Engineering and Technology, Chinese Academy of Sciences	D3-MR06-AM	Merging Life Science with Physical Science for New Functional Devices - II	Merging Life Science with Physical Science for New Functional Devices (5yynw)	MR06	VIP208 博学厅
2026/7/7	11:10-11:30	Invited Talk	323	Je-Kyung Ryu	High-Speed AFM Imaging to Probe the Structural Dynamics of Chromosome-Organizing Proteins	Seoul National University	D3-MR06-AM	Merging Life Science with Physical Science for New Functional Devices - II	Merging Life Science with Physical Science for New Functional Devices (5yynw)	MR06	VIP208 博学厅
2026/7/7	11:30-11:50	Invited Talk	340	Yi Li	Merging Physical Sensing with Computational Intelligence: A New Paradigm for Multifunctional Nanopore-Based DNA Digital Information Storage Systems	Southern University of Science and Technology	D3-MR06-AM	Merging Life Science with Physical Science for New Functional Devices - II	Merging Life Science with Physical Science for New Functional Devices (5yynw)	MR06	VIP208 博学厅
2026/7/7	Lunch										
**	Session Chair: Shenghai Pei, University of Electronic Science and Technology of China										
2026/7/7	10:50-11:10	Invited Talk	506	Zheng Han	2D Semiconductors With Higher Mobility and Scalability for Low Temperature Quantum Electronics	Shanxi University	D3-MR07-AM	Nanodevice Physics	Nanodevice Physics (7851g)	MR07	VIP206 向学厅
2026/7/7	11:10-11:30	Invited Talk	502	Lin Wang	Intelligent Iodide-Based Two-Dimensional Semiconductors for Next-Generation Optoelectronics	Nanjing Tech University	D3-MR07-AM	Nanodevice Physics	Nanodevice Physics (7851g)	MR07	VIP206 向学厅
2026/7/7	11:30-11:50	Invited Talk	504	Hongwei Liu	Heterogeneous Integration of Low-Dimensional Materials	Nanjing Normal University	D3-MR07-AM	Nanodevice Physics	Nanodevice Physics (7851g)	MR07	VIP206 向学厅
2026/7/7	Lunch										
**	Session Chair: Shengman Li, National University of Singapore Session Chair: Lan Fu, The Australian National University										
2026/7/7	10:50-11:10	Invited Talk	521	Shengman Li	Advancing High-Performance FEOL/ BEOL Transistors through Process and Materials Innovation	National University of Singapore	D3-MR08-AM	Nano-optoelectronics and neuromorphic systems - I	Nano-optoelectronics and neuromorphic systems (b2659)	MR08	VIP205 思学厅
2026/7/7	11:10-11:30	Invited Talk	519	Haoran Sun	Ambipolar Ohmic Contact to Silicon for High Performance Brain-Inspired Image Sensors	Fudan University	D3-MR08-AM	Nano-optoelectronics and neuromorphic systems - I	Nano-optoelectronics and neuromorphic systems (b2659)	MR08	VIP205 思学厅
2026/7/7	11:30-11:50	Invited Talk	514	Tiangze Zhao	Edge-Dominated Epitaxy of Topological Insulator Bi2Se3 With Ultra-Broadband Response	Shanghai Institute of Technical Physics, Chinese Academy of Sciences	D3-MR08-AM	Nano-optoelectronics and neuromorphic systems - I	Nano-optoelectronics and neuromorphic systems (b2659)	MR08	VIP205 思学厅
2026/7/7	Lunch										
**	Session Chair: Yue Zhang, Beihang University Session Chair: Zhenyi Zheng, Beihang University										
2026/7/7	10:50-11:10	Invited Talk	76	Zhenyi Zheng	Effective Electrical Manipulation of Chiral Antiferromagnetic Order	Beihang University	D3-MR09-AM	Emerging Spintronic materials and devices	Emerging Spintronic materials and devices (8ynu8)	MR09	VIP203 恒学厅
2026/7/7	11:10-11:30	Invited Talk	83	Xinyu Shu	Geometry-Driven Polar Antiferromagnetic Metallicity in a Double-Layered Perovskite Cobaltate	Hangzhou Dianzi University	D3-MR09-AM	Emerging Spintronic materials and devices	Emerging Spintronic materials and devices (8ynu8)	MR09	VIP203 恒学厅
2026/7/7	11:30-11:50	Invited Talk	432	Deyi Fu	Efficient Spin Injection via Van Der Waals Tunnel Contacts	Xiamen University	D3-MR09-AM	Emerging Spintronic materials and devices	Emerging Spintronic materials and devices (8ynu8)	MR09	VIP203 恒学厅
2026/7/7	Lunch										
**	Session Chair: Zhenbin Wang, City University of Hong Kong										
2026/7/7	14:00-14:20	Invited Talk	376	Jie Xu	Self-Driving Laboratory for Electronic Polymer Discovery	University of Chicago	D3-MR02-PM-A	AI for Nanomaterials Design and Fabrication - V	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/7	14:20-14:40	Invited Talk	429	Haitao Zhao	Agentic Robotic Boxes for Perovskite Solar Cell Fabrication with Recipe Language Model	The Hong Kong Polytechnic University	D3-MR02-PM-A	AI for Nanomaterials Design and Fabrication - V	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/7	14:40-15:00	Invited Talk	315	Xiaokun Zhang	Artificial Intelligence Assisted Materials Design and Discovery Towards High-Energy Lithium Batteries	Suzhou National Laboratory	D3-MR02-PM-A	AI for Nanomaterials Design and Fabrication - V	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/7	15:00-15:20	Invited Talk	327	Shuang Chen	Multiscale Modeling of Neurocomputing Memristors	Nanjing University	D3-MR02-PM-A	AI for Nanomaterials Design and Fabrication - V	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/7	Coffee Break										

Date	Time	#	ID	Presenter	Title	Affiliation	Session Code	Session Topic	Submission Profile	Venue (code)	Venue (EN)
**	Session Chair: Tao Wu, ShanghaiTech University Session Chair: Qicheng Zhang, Westlake University										
2026/7/7	14:00-14:20	Invited Talk	290	Zhenxing Cui	On-Chip Elastic Wave Manipulations Based on Synthetic Dimension	Shanxi University	D3-MR03-PM-A	High-Frequency Acoustics at the Nanoscale - II	High-Frequency Acoustics at the Nanoscale (w8566)	MR03	VIP201 洁行厅
2026/7/7	14:20-14:40	Invited Talk	295	Chengjie Zuo	High-Performance cmWave and mmWave Acoustic Resonators for 6G and Wi-Fi 8	University of Science and Technology of China	D3-MR03-PM-A	High-Frequency Acoustics at the Nanoscale - II	High-Frequency Acoustics at the Nanoscale (w8566)	MR03	VIP201 洁行厅
2026/7/7	14:40-15:00	Invited Talk	316	Changling Zou	Zhengfu Architecture for Hybrid Phononic-Photonic-Superconducting Integrated Circuits	University of Science and Technology of China	D3-MR03-PM-A	High-Frequency Acoustics at the Nanoscale - II	High-Frequency Acoustics at the Nanoscale (w8566)	MR03	VIP201 洁行厅
2026/7/7	15:00-15:20	Invited Talk	283	Krishna Coimbatore Balram	Good Vibrations: Light, Sound and Spins	University of Bristol	D3-MR03-PM-A	High-Frequency Acoustics at the Nanoscale - II	High-Frequency Acoustics at the Nanoscale (w8566)	MR03	VIP201 洁行厅
2026/7/7	Coffee Break										
**	Session Chair: Feng Liang, Kunming University of Science and Technology Session Chair: Hiroki Kondo, Kyushu University										
2026/7/7	14:00-14:20	Invited Talk	188	Masaharu Shiratani	Diversity Mapping for TEOS Capacitively Coupled Plasmas	Kyushu University	D3-MR04-PM-A	Machine Learning-Enhanced Plasma Nanotechnologies	Machine Learning-Enhanced Plasma Nanotechnologies for Next-Generation Materials (h873x)	MR04	VIP210 以行厅
2026/7/7	14:20-14:40	Invited Talk	386	Pankaj Attri	Mechanistic insights into CO2 capture and CO formation over ionic liquid-assisted non-thermal plasma	Kyushu University	D3-MR04-PM-A	Machine Learning-Enhanced Plasma Nanotechnologies	Machine Learning-Enhanced Plasma Nanotechnologies for Next-Generation Materials (h873x)	MR04	VIP210 以行厅
2026/7/7	14:40-15:00	Invited Talk	387	Jaka Olenik	Machine Learning Enhanced Plasma Nanotechnologies for Next-Generation Materials	Jozef Stefan Institute	D3-MR04-PM-A	Machine Learning-Enhanced Plasma Nanotechnologies	Machine Learning-Enhanced Plasma Nanotechnologies for Next-Generation Materials (h873x)	MR04	VIP210 以行厅
2026/7/7	15:00-15:20	Invited Talk	390	Tong Liu	Robust Prediction of Plasma Deposition Rate by Coupling Condition-Derived Anchors with High-Dimensional OES Features under Small-Sample Constraints	Kyushu University	D3-MR04-PM-A	Machine Learning-Enhanced Plasma Nanotechnologies	Machine Learning-Enhanced Plasma Nanotechnologies for Next-Generation Materials (h873x)	MR04	VIP210 以行厅
2026/7/7	Coffee Break										
**	Session Chair: Xinghui Wang, Fuzhou University Session Chair: Yong Gao, Dalian University of Technology										
2026/7/7	14:00-14:20	Invited Talk	345	Kourosh Kalantar-Zadeh	Flexible 2D Optoelectronic Materials via Post-Transition Liquid Metals	The University of Sydney	D3-MR05-PM-A	Advanced Flexible Electronics with Multifunctional Applications - II	Advanced Flexible Electronics with Multifunctional Applications (95h87)	MR05	VIP211 躬行厅
2026/7/7	14:20-14:40	Invited Talk	469	Xiaochen Dong	Flexible Electronic Materials: Structural Design and Biological Applications	Jiangsu Normal University	D3-MR05-PM-A	Advanced Flexible Electronics with Multifunctional Applications - II	Advanced Flexible Electronics with Multifunctional Applications (95h87)	MR05	VIP211 躬行厅
2026/7/7	14:40-15:00	Invited Talk	269	Pei Song Chee	Design and Evaluation of RF Energy Harvesting and LIG-Based Environmental Sensor	Universiti Tunku Abdul Rahman	D3-MR05-PM-A	Advanced Flexible Electronics with Multifunctional Applications - II	Advanced Flexible Electronics with Multifunctional Applications (95h87)	MR05	VIP211 躬行厅
2026/7/7	15:00-15:20	Invited Talk	460	Ximeng Liu	Multiscale Structure Design of Nanomaterials Through Metal-Organic Framework Derivation for Future Devices	Northwestern Polytechnical University	D3-MR05-PM-A	Advanced Flexible Electronics with Multifunctional Applications - II	Advanced Flexible Electronics with Multifunctional Applications (95h87)	MR05	VIP211 躬行厅
2026/7/7	Coffee Break										
**	Session Chair: Jean-Pierre Leburton, University of Illinois Urbana-Champaign Session Chair: Qing Chen, Hong Kong University of Science and Technology										
2026/7/7	14:00-14:20	Invited Talk	445	Jing Tu	Nanopore Based Analysis of Polymerase Conformational States through an Integrated Signal Pipeline	Southeast University	D3-MR06-PM-A	Merging Life Science with Physical Science for New Functional Devices - III	Merging Life Science with Physical Science for New Functional Devices (5yww)	MR06	VIP208 博学厅
2026/7/7	14:20-14:40	Invited Talk	471	Xize Gao	Nanoparticles Hijack Calvarial Immune Cells for CNS Drug Delivery and Stroke Therapy	Tsinghua University	D3-MR06-PM-A	Merging Life Science with Physical Science for New Functional Devices - III	Merging Life Science with Physical Science for New Functional Devices (5yww)	MR06	VIP208 博学厅
2026/7/7	14:40-15:00	Invited Talk	141	Yi-Lun Ying	Stereo-Selective Nanopore for Single-Molecule Reaction	Nanjing University	D3-MR06-PM-A	Merging Life Science with Physical Science for New Functional Devices - III	Merging Life Science with Physical Science for New Functional Devices (5yww)	MR06	VIP208 博学厅
2026/7/7	Coffee Break										
**	Session Chair: Yiyuan Yang, National University of Singapore										
2026/7/7	14:00-14:20	Invited Talk	133	Kyung-In Jang	Mechanics-Guided Bioelectronic Systems: From Structural Design to Clinical Translation	Daegu Gyeongbuk Institute of Science & Technology	D3-MR07-PM-A	Intelligent Adaptive Biointerfaces	Intelligent Adaptive Biointerfaces: Materials, Devices, and Systems for Exploration and Therapy (nxa9s)	MR07	VIP206 向学厅

Date	Time	#	ID	Presenter	Title	Affiliation	Session Code	Session Topic	Submission Profile	Venue (code)	Venue (EN)
2026/7/7	14:20-14:40	Invited Talk	268	Jae-Woong Jeong	From Rigid to Soft: Adaptive Bioelectronics Using Phase-Change Metal Ink	Korea Advanced Institute of Science and Technology	D3-MR07-PM-A	Intelligent Adaptive Biointerfaces	Intelligent Adaptive Biointerfaces: Materials, Devices, and Systems for Exploration and Therapy (nxa9s)	MR07	VIP206 向学厅
2026/7/7	14:40-15:00	Invited Talk	367	Jiaqi Liu	Deep-tissue Chemical Sensing with Ultrasound	City University of Hong Kong	D3-MR07-PM-A	Intelligent Adaptive Biointerfaces	Intelligent Adaptive Biointerfaces: Materials, Devices, and Systems for Exploration and Therapy (nxa9s)	MR07	VIP206 向学厅
2026/7/7	Coffee Break										
**	Session Chair: Qing Li, Hangzhou Institute for Advanced Study										
2026/7/7	14:00-14:20	Invited Talk	517	Yiye Yu	Bio-Intelligent Optoelectronic Neural Interfaces based on Low-Dimensional Tellurium for Visual Restoration and Infrared Perception Enhancement	Shanghai Institute of Technical Physics, Chinese Academy of Sciences	D3-MR08-PM-A	Nano-optoelectronics and neuromorphic systems - II	Nano-optoelectronics and neuromorphic systems (b2659)	MR08	VIP205 思学厅
2026/7/7	14:20-14:40	Invited Talk	520	Qing Li	Beyond Detection: Multidimensional and Logic-Integrated Infrared Optoelectronics Based on 2D Van der Waals Heterostructures	Hangzhou Institute for Advanced Study	D3-MR08-PM-A	Nano-optoelectronics and neuromorphic systems - II	Nano-optoelectronics and neuromorphic systems (b2659)	MR08	VIP205 思学厅
2026/7/7	14:40-15:00	Invited Talk	518	Xiaoyong Jiang	Ferroelectrics Integrated With Photoconductive Effect Enabling Dual-Reservoir Spatiotemporal Perception	Shanghai Institute of Technical Physics	D3-MR08-PM-A	Nano-optoelectronics and neuromorphic systems - II	Nano-optoelectronics and neuromorphic systems (b2659)	MR08	VIP205 思学厅
2026/7/7	Coffee Break										
**	Session Chair: Tingting Zhang, Nanjing University of Aeronautics and Astronautics Session Chair: Yichen Liu, Southeast University										
2026/7/7	14:00-14:20	Invited Talk	425	Haifeng Ling	Photo-adaptive Iontronic Electronics for Efficient Machine Vision	Nanjing University of Posts and Telecommunications	D3-MR09-PM-A	Nanofabrication & Nano-sensors	Nanofabrication & Nano-sensors (27v1y)	MR09	VIP203 恒学厅
2026/7/7	14:20-14:40	Invited Talk	503	Ting Wen	Calibrating van der Waals Force via Layer Engineering	Huzhou College	D3-MR09-PM-A	Nanofabrication & Nano-sensors	Nanofabrication & Nano-sensors (27v1y)	MR09	VIP203 恒学厅
2026/7/7	14:40-15:00	Invited Talk	244	Chengdong Zhao	WSe2 Homojunction enabled Negative Differential Resistance Effect for Sensor-Transceiver Multifunctional Devices	Southeast University	D3-MR09-PM-A	Nanofabrication & Nano-sensors	Nanofabrication & Nano-sensors (27v1y)	MR09	VIP203 恒学厅
2026/7/7	15:00-15:15	Oral Presentation	320	Byunghoon Ryu	Real-Time Cold Chain Temperature Monitoring Using a Flexible Wireless Sensor Node with Laser-Induced Graphene	Inha University	D3-MR09-PM-A	Nanofabrication & Nano-sensors	Nanosensors and Nanoactuators	MR09	VIP203 恒学厅
2026/7/7	Coffee Break										
**	Session Chair: Shuang Chen, Nanjing University										
2026/7/7	15:50-16:10	Invited Talk	158	Qisheng Wu	Machine-Learning Molecular Dynamics Simulations of the Interfaces in Solid-State Batteries	Suzhou National Laboratory	D3-MR02-PM-B	AI for Nanomaterials Design and Fabrication - VI	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/7	16:10-16:30	Invited Talk	350	Chunpeng Yang	AI-Assisted Study on Solid-State Electrolytes for Lithium Batteries	Tianjin University	D3-MR02-PM-B	AI for Nanomaterials Design and Fabrication - VI	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/7	16:30-16:50	Invited Talk	411	Wei Li	AI-Driven Approaches in Polymer Materials Design	Suzhou National Laboratory	D3-MR02-PM-B	AI for Nanomaterials Design and Fabrication - VI	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/7	16:50-17:10	Invited Talk	330	Bingqing Cheng	Energy and Forces Are All You Need	UC Berkeley	D3-MR02-PM-B	AI for Nanomaterials Design and Fabrication - VI	AI for Nanomaterials Design and Fabrication (ct195)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/7	Banquet										
**	Session Chair: Giovanni Finocchio, University of Messina Session Chair: Guilherme Penello Temporao, Pontifical Catholic University of Rio de Janeiro										
2026/7/7	15:50-16:10	Invited Talk	151	Giovanni Finocchio	Adaptive Ising Machines With Spintronics	University of Messina	D3-MR03-PM-B	Emerging technologies for unconventional computing	Recent advances in emerging technologies for unconventional computing (82k5t)	MR03	VIP201 洁行厅
2026/7/7	16:10-16:30	Invited Talk	187	Guilherme Penello Temporao	Fraud detection using Quantum-Assisted Machine Learning	Pontifical Catholic University of Rio de Janeiro	D3-MR03-PM-B	Emerging technologies for unconventional computing	Recent advances in emerging technologies for unconventional computing (82k5t)	MR03	VIP201 洁行厅
2026/7/7	16:30-16:50	Invited Talk	255	Yifan Yuan	Proton-conducting Perovskite Nickelates for In-sensor Neuromorphic Computing	Nanjing University of Aeronautics and Astronautics	D3-MR03-PM-B	Emerging technologies for unconventional computing	Recent advances in emerging technologies for unconventional computing (82k5t)	MR03	VIP201 洁行厅
2026/7/7	16:50-17:10	Invited Talk	294	Kremena Makasheva	Tailoring the Dielectric Response of Plasma Synthesized AgNPs-Networks for Capacitive Memory Window Modulation	LAPLACE CNRS University of Toulouse	D3-MR03-PM-B	Emerging technologies for unconventional computing	Recent advances in emerging technologies for unconventional computing (82k5t)	MR03	VIP201 洁行厅
2026/7/7	17:10-17:30	Invited Talk	358	Vito Puliafito	Spintronic and Oscillator-Based Ising Machines for Large-Scale Combinatorial Optimization	Politecnico di Bari	D3-MR03-PM-B	Emerging technologies for unconventional computing	Recent advances in emerging technologies for unconventional computing (82k5t)	MR03	VIP201 洁行厅

Date	Time	#	ID	Presenter	Title	Affiliation	Session Code	Session Topic	Submission Profile	Venue (code)	Venue (EN)
2026/7/7	17:30-17:50	Invited Talk	416	Sai Li	Ultra-Fast Ising Machine for Combinatorial Optimization using Sub-nanosecond CMOS-integrated Magnetoresistive Random Access Memory	Beihang University	D3-MR03-PM-B	Emerging technologies for unconventional computing	Recent advances in emerging technologies for unconventional computing (82k5t)	MR03	VIP201 法厅行
2026/7/7	Banquet										
**	Session Chair: Masaharu Shiratani, Kyushu University Session Chair: Hiroki Kondo, Kyushu University										
2026/7/7	15:50-16:10	Invited Talk	391	Kunihiko Kamataki	Physics-Informed Feature Engineering for Machine Learning in PECVD Thin-Film Growth	Kyushu University	D3-MR04-PM-B	Machine Learning–Enhanced and Emerging Plasma Nanotechnologies	Machine Learning-Enhanced Plasma Nanotechnologies for Next-Generation Materials (h873x)	MR04	VIP210 以厅行
2026/7/7	16:10-16:30	Invited Talk	394	Feng Liang	DBD Plasma Multi-Scale Modification of Interfaces for Sodium-Ion Battery	Kunming University of Science and Technology	D3-MR04-PM-B	Machine Learning–Enhanced and Emerging Plasma Nanotechnologies	Machine Learning-Enhanced Plasma Nanotechnologies for Next-Generation Materials (h873x)	MR04	VIP210 以厅行
2026/7/7	16:30-16:50	Invited Talk	397	Hiroki Kondo	Mechanistic Insights into Thin Film Functionalization in PECVD via Interpretable Machine Learning	Kyushu University	D3-MR04-PM-B	Machine Learning–Enhanced and Emerging Plasma Nanotechnologies	Machine Learning-Enhanced Plasma Nanotechnologies for Next-Generation Materials (h873x)	MR04	VIP210 以厅行
2026/7/7	16:50-17:10	Invited Talk	418	Peter Ventzek	Reconsidering the Value of the Digital Twin Concept for Pathfinding in Semiconductor Device Fabrication	Tokyo Electron America, Inc.	D3-MR04-PM-B	Machine Learning–Enhanced and Emerging Plasma Nanotechnologies	Machine Learning-Enhanced Plasma Nanotechnologies for Next-Generation Materials (h873x)	MR04	VIP210 以厅行
2026/7/7	17:10-17:25	Oral Presentation	73	Yosuke Wakabayashi	Low-Temperature SiO ₂ Deposition at 100 °C by ICP-PECVD: Effect of SiH ₄ /O ₂ Flow Ratio and Insights into Film Formation	SPP Technologies Co., Ltd.	D3-MR04-PM-B	Machine Learning–Enhanced and Emerging Plasma Nanotechnologies	Emerging Plasma Nanotechnologies	MR04	VIP210 以厅行
2026/7/7	17:25-17:40	Oral Presentation	334	Naoto Yamashita	Temperature Dependence of Anomalous Hall Effect in Strained Thulium Iron Garnet/ Platinum Heterostructure Grown by Magnetron Sputtering	Kyushu University	D3-MR04-PM-B	Machine Learning–Enhanced and Emerging Plasma Nanotechnologies	Emerging Plasma Nanotechnologies	MR04	VIP210 以厅行
2026/7/7	17:40-17:55	Oral Presentation	286	Tatsuru Shirafuji	Effects of the On- and Off-Times of a Rectangular Applied Voltage Waveform on the Propagation Characteristics of Surface-Launched Plasma Bullets in Argon Gas	Osaka Metropolitan University	D3-MR04-PM-B	Machine Learning–Enhanced and Emerging Plasma Nanotechnologies	Emerging Plasma Nanotechnologies	MR04	VIP210 以厅行
2026/7/7	Banquet										
**	Session Chair: Jie Pu, Northwestern Polytechnical University Session Chair: Jiayu Yang, Xi'an Shiyu University										
2026/7/7	15:50-16:10	Invited Talk	467	Dan Wen	Metal Hydro-/AeroGel-Based Wearable Biosensors: From Design to Application	Northwestern Polytechnical University	D3-MR05-PM-B	Advanced Flexible Electronics with Multifunctional Applications - III	Advanced Flexible Electronics with Multifunctional Applications (95h87)	MR05	VIP211 躬厅行
2026/7/7	16:10-16:30	Invited Talk	262	Desheng Kong	Redesigning soft conductive nanocomposites for stretchable electronics	Nanjing University	D3-MR05-PM-B	Advanced Flexible Electronics with Multifunctional Applications - III	Advanced Flexible Electronics with Multifunctional Applications (95h87)	MR05	VIP211 躬厅行
2026/7/7	16:30-16:50	Invited Talk	461	Yihe Yue	Design and Additive Manufacturing of Structural Batteries	Southeast University	D3-MR05-PM-B	Advanced Flexible Electronics with Multifunctional Applications - III	Advanced Flexible Electronics with Multifunctional Applications (95h87)	MR05	VIP211 躬厅行
2026/7/7	16:50-17:10	Invited Talk	212	Yong Gao	Cross-scale Nanoarray Engineering for Stable Zinc Metal Anodes	Dalian University of Technology	D3-MR05-PM-B	Advanced Flexible Electronics with Multifunctional Applications - III	Advanced Flexible Electronics with Multifunctional Applications (95h87)	MR05	VIP211 躬厅行
2026/7/7	17:10-17:30	Invited Talk	466	Jie Pu	Liquid Metal-Based Stable and Stretchable Zn-Ion Battery for Electronic Textiles	Northwestern Polytechnical University	D3-MR05-PM-B	Advanced Flexible Electronics with Multifunctional Applications - III	Advanced Flexible Electronics with Multifunctional Applications (95h87)	MR05	VIP211 躬厅行
2026/7/7	17:30-17:50	Invited Talk	470	Jiayu Yang	Hydrogel-Enabled Zn 2+ Transport Regulation in a 3D Zinc Powder Anode for Improved Cycling Performance	Xi'an Shiyu University	D3-MR05-PM-B	Advanced Flexible Electronics with Multifunctional Applications - III	Advanced Flexible Electronics with Multifunctional Applications (95h87)	MR05	VIP211 躬厅行
2026/7/7	17:50-18:05	Oral Presentation	463	Fan Bu	Utilizing Hydrogen Evolution Reaction: Bio-Inspired pH-Sensitive Electrolyte for Ultra-Stable Zinc-Ion Batteries at High Temperatures	Northwestern Polytechnical University	D3-MR05-PM-B	Advanced Flexible Electronics with Multifunctional Applications - III	Advanced Flexible Electronics with Multifunctional Applications (95h87)	MR05	VIP211 躬厅行
2026/7/7	Banquet										
**	Session Chair: Antonio Di Bartolomeo, Università degli Studi di Salerno Session Chair: Gang Niu, Xi'an Jiaotong University										
2026/7/7	15:50-16:10	Invited Talk	260	Gang Niu	MoS ₂ Based Photo-Transistors With Schottky Contacts and Ferroelectric HZO Gate Dielectrics	Xi'an Jiaotong University	D3-MR06-PM-B	Two-Dimensional (2D) Heterostructures for Next-Generation Optoelectronic and Neuromorphic Systems	Two-Dimensional (2D) Heterostructures for Next-Generation Optoelectronic and Neuromorphic Systems (329s3)	MR06	VIP208 博厅学
2026/7/7	16:10-16:30	Invited Talk	291	Srikrishna Chanakya Bodepudi	2D Material Integrated Silicon Systems for Next-Generation Optoelectronics and Imaging	Zhejiang University	D3-MR06-PM-B	Two-Dimensional (2D) Heterostructures for Next-Generation Optoelectronic and Neuromorphic Systems	Two-Dimensional (2D) Heterostructures for Next-Generation Optoelectronic and Neuromorphic Systems (329s3)	MR06	VIP208 博厅学
2026/7/7	16:30-16:50	Invited Talk	381	Yee Sin Ang	Computational Design of 2D Semiconductor Device for Next-Generation Logics and Memory Devices	Singapore University of Technology and Design	D3-MR06-PM-B	Two-Dimensional (2D) Heterostructures for Next-Generation Optoelectronic and Neuromorphic Systems	Two-Dimensional (2D) Heterostructures for Next-Generation Optoelectronic and Neuromorphic Systems (329s3)	MR06	VIP208 博厅学
2026/7/7	16:50-17:10	Invited Talk	417	Antonio Di Bartolomeo	Multifunctional Optoelectronics and Memory Effects Enabled by Trap States in Tin-Based 2D Semiconductors	Salerno University	D3-MR06-PM-B	Two-Dimensional (2D) Heterostructures for Next-Generation Optoelectronic and Neuromorphic Systems	Low-dimensional Nanomaterials and their Nanoelectronics (11c7g)	MR06	VIP208 博厅学

Date	Time	#	ID	Presenter	Title	Affiliation	Session Code	Session Topic	Submission Profile	Venue (code)	Venue (EN)
2026/7/7	17:10-17:30	Invited Talk	71	Ryo Nouchi	Surface Oxides in Two-Dimensional Materials for Device Processing	Osaka Metropolitan University	D3-MR06-PM-B	Two-Dimensional (2D) Heterostructures for Next-Generation Optoelectronic and Neuromorphic Systems	Two-Dimensional (2D) Heterostructures for Next-Generation Optoelectronic and Neuromorphic Systems (329s3)	MR06	VIP208 博学院
2026/7/7	Banquet										
**	Session Chair: Wenhui Wang, Southeast University Session Chair: Shenghai Pei, University of Electronic Science and Technology of China										
2026/7/7	15:50-16:10	Invited Talk	505	Jun Yin	Unlocking the Deeper Impact of Interfaces	Nanjing University of Aeronautics and Astronautics	D3-MR07-PM-B	Nanodevice Physics & Nano-Materials	Nanodevice Physics (7851g)	MR07	VIP206 向学院
2026/7/7	16:10-16:30	Invited Talk	501	Shenghai Pei	Tuning and Quantifying Electron-Phonon Coupling in 2D Cr-Based Systems	University of Electronic Science and Technology of China	D3-MR07-PM-B	Nanodevice Physics & Nano-Materials	Nanodevice Physics (7851g)	MR07	VIP206 向学院
2026/7/7	16:30-16:50	Invited Talk	507	Shijun Liang	Novel Integrated Sensing, Memory, and Computing Devices and Chips	Nanjing University	D3-MR07-PM-B	Nanodevice Physics & Nano-Materials	Nanodevice Physics (7851g)	MR07	VIP206 向学院
2026/7/7	16:50-17:10	Invited Talk	508	Yanpeng Liu	2D Mismatchronics	Nanjing University of Aeronautics and Astronautics	D3-MR07-PM-B	Nanodevice Physics & Nano-Materials	Nanodevice Physics (7851g)	MR07	VIP206 向学院
2026/7/7	17:10-17:30	Invited Talk	509	Wenhui Wang	Non-pixelated Intelligent Sensing with Graphene-based Position-Sensitive Detectors	Southeast University	D3-MR07-PM-B	Nanodevice Physics & Nano-Materials	Nanodevice Physics (7851g)	MR07	VIP206 向学院
2026/7/7	17:30-17:45	Oral Presentation	124	Zhiyuan Wang	Optically Reconfigurable Rectification and Anisotropic Photocurrent Transport in Thickness Engineered Two-Dimensional Heterojunctions	South China University of Technology	D3-MR07-PM-B	Nanodevice Physics & Nano-Materials	Nano-Materials	MR07	VIP206 向学院
2026/7/7	17:45-18:00	Oral Presentation	169	Fahime Seyedheydari	Optimization of Plasmonic Core@Shell Nanoparticles for LSPR Biosensing via Mie Theory and Machine Learning	Aalto University	D3-MR07-PM-B	Nanodevice Physics & Nano-Materials	Nano-Materials	MR07	VIP206 向学院
2026/7/7	Banquet										
**	Session Chair: Li Gao, Nanjing University of Posts and Telecommunications Session Chair: Xiwen Liu, Hong Kong University of Science and Technology (Guangzhou)										
2026/7/7	15:50-16:10	Invited Talk	524	Li Gao	2D van der Waals Heterostructures for Photodetector Applications	Nanjing University of Posts and Telecommunications	D3-MR08-PM-B	Nano-optoelectronics and neuromorphic systems - III	Nano-optoelectronics and neuromorphic systems (b2659)	MR08	VIP205 思学院
2026/7/7	16:10-16:30	Invited Talk	523	Xiwen Liu	Ferroelectric Diodes for Power-Efficient and Reliable Computing-in-Memory	Hong Kong University of Science and Technology (Guangzhou)	D3-MR08-PM-B	Nano-optoelectronics and neuromorphic systems - III	Nano-optoelectronics and neuromorphic systems (b2659)	MR08	VIP205 思学院
2026/7/7	16:30-16:50	Invited Talk	312	Zifan Hou	Hafia Ferroelectrics Based Integrated On-Chip MZI for Optical Phase Modulation and Optical Neuromorphic Computing Applications	Xi'an Jiaotong University	D3-MR08-PM-B	Nano-optoelectronics and neuromorphic systems - III	Nano-optoelectronics and neuromorphic systems (b2659)	MR08	VIP205 思学院
2026/7/7	16:50-17:10	Invited Talk	516	Hailu Wang	Avalanche Multiplication Effect in Stepwise Van Der Waals Homojunctions and Its Optoelectronic Device Applications	Shanghai Institute of Technical Physics, Chinese Academy of Sciences	D3-MR08-PM-B	Nano-optoelectronics and neuromorphic systems - III	Nano-optoelectronics and neuromorphic systems (b2659)	MR08	VIP205 思学院
2026/7/7	17:10-17:30	Invited Talk	288	Hangyu Xu	Multidimensional Intelligent Infrared Photodetectors Based on Low Dimensional Materials	Shanghai Institute of Technical Physics, Chinese Academy of Sciences	D3-MR08-PM-B	Nano-optoelectronics and neuromorphic systems - III	Nano-optoelectronics and neuromorphic systems (b2659)	MR08	VIP205 思学院
2026/7/7	Banquet										
**	Session Chair: Hoon Ryu, Kumoh National Institute of Technology Session Chair: Gabriel Dima, National University of Science and Technology POLITEHNICA Bucharest										
2026/7/7	15:50-16:05	Oral Presentation	123	Tao Wu	A Passive Acoustic Waveguide for Nonreciprocal Transmission Based on Wave-Vector Modulation	ShanghaiTech University	D3-MR09-PM-B	Modeling and Simulation - I	Modeling and Simulation	MR09	VIP203 恒学院
2026/7/7	16:05-16:20	Oral Presentation	164	Shiyao Tian	Thick-Resist Vector Lithography Simulation based on Effective Spectral Contribution	Southeast University	D3-MR09-PM-B	Modeling and Simulation - I	Modeling and Simulation	MR09	VIP203 恒学院
2026/7/7	16:20-16:35	Oral Presentation	178	Tao Wu	Selective Thermal Tuning of Two Transmission Peaks in a Dual-SPUDT Acoustic Delay Line	ShanghaiTech University	D3-MR09-PM-B	Modeling and Simulation - I	Modeling and Simulation	MR09	VIP203 恒学院
2026/7/7	16:35-16:50	Oral Presentation	214	Chuan Qin	Optical Modeling and Spectral Tuning of Plasmonic Si/Au Nanopillars for Filter-Free Narrowband Photodetection	Zhejiang University	D3-MR09-PM-B	Modeling and Simulation - I	Modeling and Simulation	MR09	VIP203 恒学院
2026/7/7	16:50-17:05	Oral Presentation	85	WeiQi Liu	LLM-Guided Co-Evolution of Nanorobot Morphology and Control for Tumor Targeting	Xinjiang University	D3-MR09-PM-B	Modeling and Simulation - I	Modeling and Simulation	MR09	VIP203 恒学院
2026/7/7	17:05-17:20	Oral Presentation	111	Josue Ortiz-Medina	Accuracy Evaluation of Deep Convolutional Neural Networks for N- and B-Doped Graphene Electronic Wavefunctions Prediction at Variable Doping Sites	Tecnologico Nacional de Mexico	D3-MR09-PM-B	Modeling and Simulation - I	Modeling and Simulation	MR09	VIP203 恒学院
2026/7/7	Banquet										

Date	Time	#	ID	Presenter	Title	Affiliation	Session Code	Session Topic	Submission Profile	Venue (code)	Venue (EN)
2026/7/8	PARALLEL SESSIONS										
**	Session Chair: Wang Kang, Beihang University										
	Session Chair: Junzhan Liu, Hangzhou International Innovation Institute of Beihang University										
2026/7/8	10:50-11:10	Invited Talk	193	Fei Qiao	Intelligent Visual Recognition System Based on Senputing-CNN	Tsinghua University	D4-MR02-AM	Intelligent Edge Sensing and Computing	Intelligent Edge Sensing and Computing (bi8c7)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/8	11:10-11:30	Invited Talk	361	Junzhan Liu	In-Sensor Computing Chip for Edge Intelligence	Hangzhou International Innovation Institute of Beihang University	D4-MR02-AM	Intelligent Edge Sensing and Computing	Intelligent Edge Sensing and Computing (bi8c7)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/8	11:30-11:50	Invited Talk	366	Longyang Lin	End-to-End Analog Intelligent Computing Architectures for Ultra-Efficient Edge Vision	Southern University of Science and Technology	D4-MR02-AM	Intelligent Edge Sensing and Computing	Intelligent Edge Sensing and Computing (bi8c7)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/8	Lunch										
**	Session Chair: Tseung-Yuen Tseng, Yang Ming Chiao Tung University										
	Session Chair: Jesus Jacobo Hernandez Montelongo, Catholic University Of Temuco										
2026/7/8	10:50-11:05	Oral Presentation	303	Sudipta Roy Barman	Stanene Nano Islands on Magnetic Topological Insulators	University Grants Comission-Department of Atomic Energy Consortium for Scientific Research	D4-MR03-AM	Nano-Materials	Nano-Materials	MR03	VIP201 洁行厅
2026/7/8	11:05-11:20	Oral Presentation	346	Yunpeng Li	The Surface Engineering of Light Carbonyl Iron Powder Empowers Wideband Absorption and Multi-Functional Integration	Beijing Institute of Technology	D4-MR03-AM	Nano-Materials	Nano-Materials	MR03	VIP201 洁行厅
2026/7/8	11:20-11:35	Oral Presentation	190	Adolfo Mazzotti	Hysteresis in Ambipolar MoTe2 Field-Effect Transistors	University of Salerno	D4-MR03-AM	Nano-Materials	Nano-Materials	MR03	VIP201 洁行厅
2026/7/8	Lunch										
**	Session Chair: Yongliang Yang, Shenyang Institute of Automation, Chinese Academy of Science										
	Session Chair: Hangyu Xu, Shanghai Institute of Technical Physics										
2026/7/8	10:50-11:05	Oral Presentation	134	Zhaoying Dang	Ferroelectric Modulated Spatial and Temporal Polarization-sensitive Vision Sensors for Information Processing in Visibility-degraded Environments	Hangzhou Institute for Advanced Study, University of Chinese Academy of Sciences, Hangzhou, China	D4-MR04-AM	Nano-Optics, Nanophotonics, and Nano-Optoelectronics - I	Nano-Optics, Nanophotonics, and Nano-Optoelectronics	MR04	VIP210 躬行厅
2026/7/8	11:05-11:20	Oral Presentation	63	K. Thirupathaiah K. Thirupathaiah	Ultracompact Dual-Band Plasmonic BPF Using SRR With SIR for Subwavelength Applications	Koneru Lakshmaiah Education Foundation Hyderabad	D4-MR04-AM	Nano-Optics, Nanophotonics, and Nano-Optoelectronics - I	Nano-Optics, Nanophotonics, and Nano-Optoelectronics	MR04	VIP210 躬行厅
2026/7/8	11:20-11:35	Oral Presentation	50	Praveen Kumar Pal	Quantum Noise-Limited Information Capacity in Sub-Wavelength Nanophotonic Waveguides: A Theoretical Study	Nokia, USA	D4-MR04-AM	Nano-Optics, Nanophotonics, and Nano-Optoelectronics - I	Nano-Optics, Nanophotonics, and Nano-Optoelectronics	MR04	VIP210 躬行厅
2026/7/8	Lunch										
**	Session Chair: Pei Song Chee, Universiti Tunku Abdul Rahman										
	Session Chair: Soon Gil Yoon, Chungnam National University										
2026/7/8	10:50-11:05	Oral Presentation	34	Ruiqi Zhu	Spectral Response and Operating Temperature Regulation of Solar Cells Using SrAl2O4:(Eu2+, Dy3+) Phosphors	Southeast University	D4-MR05-AM	Nano-Energy, Environment, and Safety	Nano-Energy, Environment, and Safety	MR05	VIP211 躬行厅
2026/7/8	11:05-11:20	Oral Presentation	84	Tianyi Zhang	Role of CeO2/ZrO2 Molar Ratio in Ni-CeO2-ZrO2 Composite Catalysts for Ammonia Decomposition to Hydrogen	National University of Defense Technology	D4-MR05-AM	Nano-Energy, Environment, and Safety	Nano-Energy, Environment, and Safety	MR05	VIP211 躬行厅
2026/7/8	11:20-11:35	Oral Presentation	120	Valerie Johanne Teoxon	Carbon Quantum Dots (CQD)-Derived from i-Carrageenan Incorporated into Zinc Oxide (ZnO) as a Photodegradation Catalyst for Persistent Methylene Blue Dye Pollutant	De La Salle University	D4-MR05-AM	Nano-Energy, Environment, and Safety	Nano-Energy, Environment, and Safety	MR05	VIP211 躬行厅
2026/7/8	11:35-11:50	Oral Presentation	117	Jose Paolo Bantang	Green Synthesized Silver Nanoparticles (AgNP) Reduced Using Lanzones (Lansium domesticum) Leaves Extract with Multifunctional Role as an Antimicrobial Agent, Catalyst, and Heavy Metal Colorimetric Sensor	De La Salle University	D4-MR05-AM	Nano-Energy, Environment, and Safety	Nano-Energy, Environment, and Safety	MR05	VIP211 躬行厅
2026/7/8	Lunch										
**	Session Chair: Lingxiang Yin, Nanjing University of Aeronautics and Astronautics										
	Session Chair: Shengman Li, National University of Singapore										
2026/7/8	10:50-11:05	Oral Presentation	105	Ningxiang Xu	TCAD Simulation of sub-2nm CFET with Backside Fin Isolation Structure via BSPDN process for Performance Enhancing	Institute of Microelectronics of the Chinese Academy of Sciences	D4-MR06-AM	Nanoelectronics - I	Nanoelectronics	MR06	VIP208 博客厅

Date	Time	#	ID	Presenter	Title	Affiliation	Session Code	Session Topic	Submission Profile	Venue (code)	Venue (EN)
2026/7/8	11:05-11:20	Oral Presentation	149	Chunhong Chen	A Compact Multiplier Design Using Hybrid SET-MOS Technology	University of Windsor	D4-MR06-AM	Nanoelectronics - I	Nanoelectronics	MR06	VIP208 博学院
2026/7/8	11:20-11:35	Oral Presentation	112	Xin Zhang	Experimental and Numerical Investigation on the Characteristics of Laser Induced Graphene-Based Strain Sensor	Shanghai University	D4-MR06-AM	Nanoelectronics - I	Nanoelectronics	MR06	VIP208 博学院
2026/7/8	11:35-11:50	Oral Presentation	95	Salim Almenshad	Nanoscale AlGaIn/GaN FinFETs: Enhancement Mode Operation and Multiscale Simulation of Random Defects	Southern Illinois University	D4-MR06-AM	Nanoelectronics - I	Nanoelectronics	MR06	VIP208 博学院
2026/7/8	Lunch										
**	Session Chair: Xiaogan Liang, University of Michigan										
2026/7/8	10:50-11:05	Oral Presentation	302	Xiao Lei	Capillary-Force-Free Dielectrophoretic Assembly of High-Fidelity Suspended Carbon Nanotubes	Shanghai Jiao Tong University	D4-MR07-AM	Nanofabrication	Nanofabrication	MR07	VIP206 向学院
2026/7/8	11:05-11:20	Oral Presentation	423	Dominic Lane	Modelling the Use of Augmented Nucleic Acids in Nanostructure Fabrication and Repair	Saint Joseph's University	D4-MR07-AM	Nanofabrication	Nanofabrication	MR07	VIP206 向学院
2026/7/8	11:20-11:35	Oral Presentation	45	Ruiguo Yang	Mechanical Characterization of Shape-Memory Microfibers using a Tensile Testing Platform Fabricated from Two-Photon Polymerization	Michigan State University	D4-MR07-AM	Nanofabrication	Nanofabrication	MR07	VIP206 向学院
2026/7/8	Lunch										
**	Session Chair: Jianying He, Norwegian University of Science and Technology										
2026/7/8	10:50-11:05	Oral Presentation	128	Yuan Zou	Low-Temperature Pressureless Sintering of Surface Modified Non-Dewetting Cu@Ag Bimodal Conductive Paste for Electronic Packaging	Southeast University	D4-MR08-AM	Nanomechanics	Nanopackaging	MR08	VIP205 思学院
2026/7/8	11:05-11:20	Oral Presentation	448	Changhong Cao	Machine Learning-Driven Metastructure Design for Sensor-Free Linearization of MEMS Electrothermal Actuator for Mechanical Characterizations of 2D Materials	McGill University	D4-MR08-AM	Nanomechanics	Nanomechanics	MR08	VIP205 思学院
2026/7/8	Lunch										
**	Session Chair: Wang Kang, Beihang University Session Chair: Junzhan Liu, Hangzhou International Innovation Institute of Beihang University										
2026/7/8	14:00-14:20	Invited Talk	408	Liyuan Liu	Smart Vision Chip	Institute of Semiconductors, Chinese Academy of Sciences	D4-MR02-PM-A	Intelligent Edge Sensing and Computing & Nanosensors and Nanoactuators	Intelligent Edge Sensing and Computing (b18c7)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/8	14:20-14:40	Invited Talk	410	Yanan Liu	Synchronous Dynamic-Static Event Encoding for In-Sensor Spiking Neural Network-Based Human Action Recognition	Shanghai University	D4-MR02-PM-A	Intelligent Edge Sensing and Computing & Nanosensors and Nanoactuators	Intelligent Edge Sensing and Computing (b18c7)	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/8	14:40-14:55	Oral Presentation	194	Rui Liu	Mechanistic Insights into Protein Translocation under Competing Electrophoretic and Electroosmotic Forces in Solid-State Nanopores	Southeast University	D4-MR02-PM-A	Intelligent Edge Sensing and Computing & Nanosensors and Nanoactuators	Nanosensors and Nanoactuators	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/8	14:55-15:10	Oral Presentation	259	Divey Pradhan	Asymmetric Dual-Gate Junctionless MOSFET Biosensor with Diagonal Nanocavities for Classification of Breast Cancer Cell Lines	Manipal University Jaipur	D4-MR02-PM-A	Intelligent Edge Sensing and Computing & Nanosensors and Nanoactuators	Nanosensors and Nanoactuators	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/8	15:10-15:25	Oral Presentation	419	Attila Bonyár	A Custom LSPRI Device Based on Hyperspectral Imaging	Budapest University of Technology and Economics	D4-MR02-PM-A	Intelligent Edge Sensing and Computing & Nanosensors and Nanoactuators	Nanosensors and Nanoactuators	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/8	Coffee Break										
**	Session Chair: Qicheng Zhang, Westlake University Session Chair: Jinwook Kim, Kyungpook National University										
2026/7/8	14:00-14:20	Invited Talk	451	Federico Rosei	2D Conjugated Polymers as Organic Analogues of Graphene	University of Trieste	D4-MR03-PM-A	Nano-Materials & Nano-Acoustic Devices, Processes, and Materials	Silicon/2D Materials Heterostructures: From devices to integration (f93d6)	MR03	VIP201 洁行厅
2026/7/8	14:20-14:35	Oral Presentation	424	Yingnan Yang	Protective Sacrificial Layer for Carbon Nanotube Field Effect Transistors: Enhancing Electrical Performance through Surface Protection	Shanghai Jiao Tong University	D4-MR03-PM-A	Nano-Materials & Nano-Acoustic Devices, Processes, and Materials	Nano-Materials	MR03	VIP201 洁行厅
2026/7/8	14:35-14:50	Oral Presentation	79	Yousef Altoorah	Carbon Black Nanofluid Effectiveness for Solar Thermal Applications	Kuwait University	D4-MR03-PM-A	Nano-Materials & Nano-Acoustic Devices, Processes, and Materials	Nano-Materials	MR03	VIP201 洁行厅
2026/7/8	14:50-15:05	Oral Presentation	175	Yaru Wang	Design and Control Methods of TSAW Acoustic Tweezers System for Cellular Sorting	Soochow University	D4-MR03-PM-A	Nano-Materials & Nano-Acoustic Devices, Processes, and Materials	Nano-Acoustic Devices, Processes, and Materials	MR03	VIP201 洁行厅

Date	Time	#	ID	Presenter	Title	Affiliation	Session Code	Session Topic	Submission Profile	Venue (code)	Venue (EN)
2026/7/8	15:05-15:20	Oral Presentation	446	Xiaoning Jiang	Ultrasound Nanodroplet Vaporization and Cavitation Thresholds	North Carolina State University	D4-MR03-PM-A	Nano-Materials & Nano-Acoustic Devices, Processes, and Materials	Nano-Acoustic Devices, Processes, and Materials	MR03	VIP201 法行厅
2026/7/8	Coffee Break										
**	Session Chair: Yi Zou, ShanghaiTech University Session Chair: Dr Maisarah Mansor, Sunway University										
2026/7/8	14:00-14:15	Oral Presentation	500	Yujie Ma	Polarization Control and High-Sensitivity Detection of Integrated Photonic Chips	Shenzhen Technology University	D4-MR04-PM-A	Nano-Optics, Nanophotonics, and Nano-Optoelectronics - II	Nano-Optics, Nanophotonics, and Nano-Optoelectronics	MR04	VIP210 以行厅
2026/7/8	14:15-14:30	Oral Presentation	246	Joshua Cole Schuetta	Sensitivity Limits and Regime Transitions in Photonic RF Spectrometry for Ultra-Wideband Spectrum Sensing	Schuetta-Research	D4-MR04-PM-A	Nano-Optics, Nanophotonics, and Nano-Optoelectronics - II	Nano-Optics, Nanophotonics, and Nano-Optoelectronics	MR04	VIP210 以行厅
2026/7/8	14:30-14:45	Oral Presentation	274	Zhen Wang	Blackbody-Sensitive 2D Materials and Infrared Applications	Shanghai Institute of Technical Physics, Chinese Academy of Sciences	D4-MR04-PM-A	Nano-Optics, Nanophotonics, and Nano-Optoelectronics - II	Nano-Optics, Nanophotonics, and Nano-Optoelectronics	MR04	VIP210 以行厅
2026/7/8	14:45-15:00	Oral Presentation	339	Shuai Gao	Optical Asymmetric Transmission of Dielectric Cylinders at Different Periodic Scales	Southeast University	D4-MR04-PM-A	Nano-Optics, Nanophotonics, and Nano-Optoelectronics - II	Nano-Optics, Nanophotonics, and Nano-Optoelectronics	MR04	VIP210 以行厅
2026/7/8	15:00-15:15	Oral Presentation	440	Muhammad Usman Amin	Dynamic Single-Molecule SERS Detection of Ciprofloxacin by Au Nanopore	Guangdong Ocean University	D4-MR04-PM-A	Nano-Optics, Nanophotonics, and Nano-Optoelectronics - II	Nano-Optics, Nanophotonics, and Nano-Optoelectronics	MR04	VIP210 以行厅
2026/7/8	Coffee Break										
**	Session Chair: Zhan Yang, Soochow University Session Chair: Hengjie Yu, Westlake University										
2026/7/8	14:00-14:15	Oral Presentation	132	Xiaoying Bi	Synergistic Enhancement of Photocatalytic Methylene Blue Degradation by In2O3/Bi2O3 Heterojunction toward Environmental Remediation	Southeast University	D4-MR05-PM-A	Nano-Energy, Environment, and Safety & Nanomagnetics	Nano-Energy, Environment, and Safety	MR05	VIP211 躬行厅
2026/7/8	14:15-14:30	Oral Presentation	284	Soon-Gil Yoon	Nanogenerator-Based Energy Harvesting for Self-Charging Power Units	Chungnam National University	D4-MR05-PM-A	Nano-Energy, Environment, and Safety & Nanomagnetics	Nano-Energy, Environment, and Safety	MR05	VIP211 躬行厅
2026/7/8	14:30-14:45	Oral Presentation	227	Santhosh Sivasubramani	Micromagnetic Reservoir Computing in Synthetic Antiferromagnets: Role of Interlayer Exchange Coupling	Indian Institute of Technology Delhi	D4-MR05-PM-A	Nano-Energy, Environment, and Safety & Nanomagnetics	Nanomagnetics	MR05	VIP211 躬行厅
2026/7/8	14:45-15:00	Oral Presentation	229	Santhosh Sivasubramani	Spin-Orbit Torque Switching of Synthetic Antiferromagnets: Micromagnetic Analysis of RKKY Coupling Effects	Indian Institute of Technology Delhi	D4-MR05-PM-A	Nano-Energy, Environment, and Safety & Nanomagnetics	Nanomagnetics	MR05	VIP211 躬行厅
2026/7/8	15:00-15:15	Oral Presentation	371	Matteo Bruno Lodi	A Theoretical Framework for the Optimization of Magneto-Responsive Scaffolds for Hyperthermia Treatment	University of Cagliari	D4-MR05-PM-A	Nano-Energy, Environment, and Safety & Nanomagnetics	Nanomagnetics	MR05	VIP211 躬行厅
2026/7/8	Coffee Break										
**	Session Chair: Erya Deng, Nanjing University of Aeronautics and Astronautics										
2026/7/8	14:00-14:15	Oral Presentation	156	Jeff Kettle	Electrical Detection of Indigo Dye Using ZnO–Ag Water-Gated Field-Effect Transistors	University of Glasgow	D4-MR06-PM-A	Nanoelectronics - II	Nanoelectronics	MR06	VIP208 博学厅
2026/7/8	14:15-14:30	Oral Presentation	160	Tseung-Yuen Tseng	Optoelectronic Synaptic Characteristics of ZTO/SZO Bilayer Memristor and Its Application in Face Recognition for Neuromorphic Computing	Yang Ming Chiao Tung University	D4-MR06-PM-A	Nanoelectronics - II	Nanoelectronics	MR06	VIP208 博学厅
2026/7/8	14:30-14:45	Oral Presentation	510	Beng Kang Tay	Advancements and Applications in CMOS-Compatible Carbon Nanotube Transfer Technology: From Challenges to Practical Solutions	Nanyang Technological University	D4-MR06-PM-A	Nanoelectronics - II	Nanoelectronics	MR06	VIP208 博学厅
2026/7/8	14:45-15:00	Oral Presentation	181	Benjamin Hien	Toward Compact Planar Circuits for Atomic-Scale Computing: A Hybrid Crossing Elimination Flow	Technical University of Munich	D4-MR06-PM-A	Nanoelectronics - II	Nanoelectronics	MR06	VIP208 博学厅
2026/7/8	15:00-15:15	Oral Presentation	179	Benjamin Hien	Minimizing Area and Delay in Planar Physical Design for Field-coupled Nanocomputing	Technical University of Munich	D4-MR06-PM-A	Nanoelectronics - II	Nanoelectronics	MR06	VIP208 博学厅
2026/7/8	Coffee Break										
**	Session Chair: Haifeng Ling, Nanjing University of Posts and Telecommunications Session Chair: Haoran Sun, Fudan University										
2026/7/8	14:00-14:15	Oral Presentation	225	Georgios Ch. Sirakoulis	A Programmable Memristive Cellular Automaton Architecture for State-Transition Trajectories in Neuromodulation	Democritus Unviersity of Thrace	D4-MR07-PM-A	Quantum, Neuromorphic, and Unconventional Computing - I	Quantum, Neuromorphic, and Unconventional Computing	MR07	VIP206 向学厅

Date	Time	#	ID	Presenter	Title	Affiliation	Session Code	Session Topic	Submission Profile	Venue (code)	Venue (EN)
2026/7/8	14:15-14:30	Oral Presentation	77	Juncheng Wang	A High-Performance Cyclic-Mapping Encoding for Quantum Computing of Traveling Salesperson Problems on NISQ Devices	Tokyo University of Agriculture and Technology	D4-MR07-PM-A	Quantum, Neuromorphic, and Unconventional Computing - I	Quantum, Neuromorphic, and Unconventional Computing	MR07	VIP206 向学厅
2026/7/8	14:30-14:45	Oral Presentation	98	Xingjian Gao	A Digital Oscillator-based Potts Machine for Graph Colouring Problems	University of Alberta	D4-MR07-PM-A	Quantum, Neuromorphic, and Unconventional Computing - I	Quantum, Neuromorphic, and Unconventional Computing	MR07	VIP206 向学厅
2026/7/8	14:45-15:00	Oral Presentation	102	Gonzalo Sebastián Torres Chávez	Design and Layout of a 22-bit Finite State Machine for Izhikevich Neuron Equations	Instituto Politecnico Nacional CIC	D4-MR07-PM-A	Quantum, Neuromorphic, and Unconventional Computing - I	Quantum, Neuromorphic, and Unconventional Computing	MR07	VIP206 向学厅
2026/7/8	15:00-15:15	Oral Presentation	182	Siyng Wu	Multi-PUFim Compute-In-Memory Architecture with Multi-Encryption Obfuscation Based on High-Security MRAM PUF	Nanjing University of Aeronautics and Astronautics	D4-MR07-PM-A	Quantum, Neuromorphic, and Unconventional Computing - I	Quantum, Neuromorphic, and Unconventional Computing	MR07	VIP206 向学厅
2026/7/8	15:15-15:30	Oral Presentation	144	Yun-Ting Lai	Entanglement-enhanced Multi-objective Quantum-inspired Computing with Adaptive Density-based Segmentation	Chi Nan University	D4-MR07-PM-A	Quantum, Neuromorphic, and Unconventional Computing - I	Quantum, Neuromorphic, and Unconventional Computing	MR07	VIP206 向学厅
2026/7/8	Coffee Break										
**	Session Chair: Attila Bonyár, Budapest University of Technology and Economics Session Chair: Xuqian Zheng, Nanjing University of Posts and Telecommunications										
2026/7/8	14:00-14:15	Oral Presentation	185	Zihan Wang	Design and Fabrication of a Multi-layered MEMS Sensor and Semiconductor Nanocrystals-Based Gas Sensing Applications	Anhui University	D4-MR08-PM-A	Nanosensors and Nanoactuators	Nanosensors and Nanoactuators	MR08	VIP205 思学厅
2026/7/8	14:15-14:30	Oral Presentation	196	Nor Akmar Mohd Yahya	Comparative NH3 Gas Sensing Characteristic of MoS2 and MoS2/NiS Nanocomposite Coated Plastic Optical Fibers	Sunway University	D4-MR08-PM-A	Nanosensors and Nanoactuators	Nanosensors and Nanoactuators	MR08	VIP205 思学厅
2026/7/8	14:30-14:45	Oral Presentation	370	Yubin Lee	Laser-Induced Conductive Micro-nano structures on Carbon Black/PDMS Composite for Flexible Pressure Sensing Application Solution	Pusan National University	D4-MR08-PM-A	Nanosensors and Nanoactuators	Nanosensors and Nanoactuators	MR08	VIP205 思学厅
2026/7/8	14:45-15:00	Oral Presentation	398	Shiyu Wei	Nanowire Array Breath Acetone Sensor for Diabetes Monitoring	Hefei University of Technology	D4-MR08-PM-A	Nanosensors and Nanoactuators	Nanosensors and Nanoactuators	MR08	VIP205 思学厅
2026/7/8	15:00-15:15	Oral Presentation	232	Vinay Budhraja	Comparative Performance Analysis of PEDOT:PSS Organic Electrochemical Transistors with 6% and 10% D-Sorbitol Additives	Northern Illinois University	D4-MR08-PM-A	Nanosensors and Nanoactuators	Nanosensors and Nanoactuators	MR08	VIP205 思学厅
2026/7/8	15:15-15:30	Oral Presentation	103	Srinivas Talabattula	Slot Waveguide Integrated Biosensor With Intermediate Buffer Layers for Measuring Temperature	Indian Institute of Science, Bangalore	D4-MR08-PM-A	Nanosensors and Nanoactuators	Nanosensors and Nanoactuators	MR08	VIP205 思学厅
2026/7/8	Coffee Break										
**	Session Chair: Josue Ortiz-Medina, Tecnologico Nacional de Mexico Session Chair: Kaili Zhang, State Key Laboratory of Spintronics, Hangzhou International Innovation Institute, Beihang University, Hangzhou										
2026/7/8	15:50-16:05	Oral Presentation	234	Georgios Sirakoulis	In Situ Photocurrent-Driven Feature Extraction in Memristive Oscillatory-based Reservoirs	Democritus Univiersity of Thrace	D4-MR02-PM-B	Modeling and Simulation - II	Modeling and Simulation	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/8	16:05-16:20	Oral Presentation	300	Georgios Sirakoulis	Unipolar to Bipolar Transition in Resistive Memories Based on Silicon Nitride Thin Films by Different CVD Techniques	Democritus Univiersity of Thrace	D4-MR02-PM-B	Modeling and Simulation - II	Modeling and Simulation	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/8	16:20-16:35	Oral Presentation	75	Luca Pierantoni	The Role of Nitrogen Dopant Configurations on Graphite-Based Field-Effect Transistors	Università Politecnica delle Marche	D4-MR02-PM-B	Modeling and Simulation - II	Modeling and Simulation	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/8	16:35-16:50	Oral Presentation	202	Aqeel Y. Alalawi	How Geometric and Atomistic Asymmetries Affect Entangled Light Generation in InGaN/GaN Quantum Dots	Southern Illinois University	D4-MR02-PM-B	Modeling and Simulation - II	Modeling and Simulation	MR02	Zhongda Lecture Hall 中大报告厅
2026/7/8	Conference Closing										
**	Session Chair: Ke Xia, Southeast University Session Chair: Zhixin Guo, Xi'an Jiaotong University										
2026/7/8	15:50-16:10	Invited Talk	208	Sorin Cotofana	Spin Wave Domain Wall Driven Threshold Logic	Delft University of Technology	D4-MR03-PM-B	Spintronics	Spintronics	MR03	VIP201 洁行厅
2026/7/8	16:10-16:25	Oral Presentation	122	Xiaohan Sun	Multi-bit Ultra-Fast Memory Based on Topological Antiferromagnetic Domain Wall	Beihang University	D4-MR03-PM-B	Spintronics	Spintronics	MR03	VIP201 洁行厅
2026/7/8	16:25-16:40	Oral Presentation	176	Chunxia Xie	Double Node Upset Tolerant Design of STT-MRAM with High Speed and Low Power	Nanjing University of Aeronautics and Astronautics	D4-MR03-PM-B	Spintronics	Spintronics	MR03	VIP201 洁行厅
2026/7/8	16:40-16:55	Oral Presentation	91	Xiangyi Meng	A Novel Flash-SAR Hybrid ADC with Adjustable Resolution for STT-MRAM Analog In-Memory Computing	Southeast University	D4-MR03-PM-B	Spintronics	Spintronics	MR03	VIP201 洁行厅

Date	Time	#	ID	Presenter	Title	Affiliation	Session Code	Session Topic	Submission Profile	Venue (code)	Venue (EN)
2026/7/8	16:55-17:10	Oral Presentation	220	Luman Xiang	High-Reliability Multi-Level Cell Voltage-Gated Spin-Orbit Torque Magnetic Random-Access Memory	Beihang University	D4-MR03-PM-B	Spintronics	Spintronics	MR03	VIP201 法厅厅
2026/7/8	17:10-17:25	Oral Presentation	230	Guanyu Zhao	A TST-MRAM-Based Low-Latency In-Memory Multi-Bit Adder with Reconfigurable Logic	Nanjing University of Aeronautics and Astronautics	D4-MR03-PM-B	Spintronics	Spintronics	MR03	VIP201 法厅厅
2026/7/8	17:25-17:40	Oral Presentation	405	Peilin Zhen	A Parameterized Compiler Framework for SOT-MRAM Macro Generation	Beihang University	D4-MR03-PM-B	Spintronics	Spintronics	MR03	VIP201 法厅厅
2026/7/8	Conference Closing										
**	Session Chair: Luming Wang, University of Electronic Science and Technology of China										
2026/7/8	15:50-16:05	Oral Presentation	96	Maisarah Mansor	Mechanistic Insights into Solvent-Mediated Structural Properties and Encapsulation Dynamics of Lead-Free MA ₂ Bi ₂ Br ₂ /PDMS for Ultrafast Photonics.	Sunway University	D4-MR04-PM-B	Nano-Optics, Nanophotonics, and Nano-Optoelectronics - III	Nano-Optics, Nanophotonics, and Nano-Optoelectronics	MR04	VIP210 以厅厅
2026/7/8	16:05-16:20	Oral Presentation	195	Xuan Ye	Interfacial Bubble Engineering for High-Performance Ti3C2Tx MXene/Si X-ray Detectors	Zhejiang University	D4-MR04-PM-B	Nano-Optics, Nanophotonics, and Nano-Optoelectronics - III	Nano-Optics, Nanophotonics, and Nano-Optoelectronics	MR04	VIP210 以厅厅
2026/7/8	16:20-16:35	Oral Presentation	172	Kritika Bhattacharya	Plasmon-Mediated Polarization-Sensitive Photodetection in Germanium-MXene Heterojunctions	Indian Institute of Technology Delhi	D4-MR04-PM-B	Nano-Optics, Nanophotonics, and Nano-Optoelectronics - III	Nano-Optics, Nanophotonics, and Nano-Optoelectronics	MR04	VIP210 以厅厅
2026/7/8	16:35-16:50	Oral Presentation	200	Aniello Pelella	A new way to benchmark Low-Dimensional Optoelectronic Synapses	University of Salerno	D4-MR04-PM-B	Nano-Optics, Nanophotonics, and Nano-Optoelectronics - III	Nano-Optics, Nanophotonics, and Nano-Optoelectronics	MR04	VIP210 以厅厅
2026/7/8	Conference Closing										
**	Session Chair: Matteo Bruno Lodi, University of Cagliari Session Chair: Xing Sheng, Tsinghua University										
2026/7/8	15:50-16:10	Invited Talk	513	Xing Sheng	Implantable Optoelectronic Devices for Advanced Neural Interfaces	Tsinghua University	D4-MR05-PM-B	Nano-biomedicine	Intelligent Adaptive Biointerfaces: Materials, Devices, and Systems for Exploration and Therapy (nxa9s)	MR05	VIP211 躬厅厅
2026/7/8	16:10-16:25	Oral Presentation	80	Jiawei Zou	Phase-Regulated Swarm Control for Nanorobot Collective Transport in Tumor Microenvironments	Xinjiang University	D4-MR05-PM-B	Nano-biomedicine	Nano-biomedicine	MR05	VIP211 躬厅厅
2026/7/8	16:25-16:40	Oral Presentation	337	Kalindu Perera	Cellulose Nanocrystal-Alginate Hydrogels for pH-Triggered Oral Delivery of Sensitive Payloads	University of Arkansas	D4-MR05-PM-B	Nano-biomedicine	Nano-biomedicine	MR05	VIP211 躬厅厅
2026/7/8	Conference Closing										
**	Session Chair: Tay Beng Kang, Nanyang Technological University Session Chair: Shuyun Zhuo, Beihang University										
2026/7/8	15:50-16:05	Oral Presentation	292	Yury Illarionov	Shaping Reliability Analysis of 2D and Thin Film FETs Towards Faster Commercialization	Southern University of Science and Technology	D4-MR06-PM-B	Nanoelectronics and nanotechnology for Soft Electronics & Nanoscale Communications	Nanoelectronics	MR06	VIP208 博厅厅
2026/7/8	16:05-16:20	Oral Presentation	264	Dongxu Fan	A Bit-Parallel Molybdenum Disulfide Computer Built Through Multi-Level Co-Optimization	Nanjing University	D4-MR06-PM-B	Nanoelectronics and nanotechnology for Soft Electronics & Nanoscale Communications	Nanoelectronics	MR06	VIP208 博厅厅
2026/7/8	16:20-16:35	Oral Presentation	97	Jin Zhang	Hydrogel-Integrated Flexible Spintronic Materials	University of Western Ontario	D4-MR06-PM-B	Nanoelectronics and nanotechnology for Soft Electronics & Nanoscale Communications	Nanotechnology for Soft Electronics	MR06	VIP208 博厅厅
2026/7/8	16:35-16:50	Oral Presentation	93	David Tom Foss	Compression-Based Trust Verification of Lightweight Ciphers Deployed in Nano-IoT Communication Standards	Independent Researcher	D4-MR06-PM-B	Nanoelectronics and nanotechnology for Soft Electronics & Nanoscale Communications	Nanoscale Communications	MR06	VIP208 博厅厅
2026/7/8	Conference Closing										
**	Session Chair: Chengning Wang, Huazhong University of Science and Technology Session Chair: Srikrishna Chanakya Bodepudi, Zhejiang University										
2026/7/8	15:50-16:05	Oral Presentation	184	Mengjie Liu	A Mixed-signal Parallel Stochastic Computing-in-Memory MRAM Macro for Edge AI Application	Nanjing University of Aeronautics and Astronautics	D4-MR07-PM-B	Quantum, Neuromorphic, and Unconventional Computing - II	Quantum, Neuromorphic, and Unconventional Computing	MR07	VIP206 向厅厅
2026/7/8	16:05-16:20	Oral Presentation	189	Samuel Sze Hang Ng	Design and Emulation Methodology for Atomic-Scale Systolic Arrays: An LLM Accelerator Case Study in Silicon DB Logic	University of British Columbia	D4-MR07-PM-B	Quantum, Neuromorphic, and Unconventional Computing - II	Quantum, Neuromorphic, and Unconventional Computing	MR07	VIP206 向厅厅
2026/7/8	16:20-16:35	Oral Presentation	198	Samuel Sze Hang Ng	BitPlanarNet: Learning-to-Layout Planar Gate Networks for Emerging Devices	University of British Columbia	D4-MR07-PM-B	Quantum, Neuromorphic, and Unconventional Computing - II	Quantum, Neuromorphic, and Unconventional Computing	MR07	VIP206 向厅厅

Date	Time	#	ID	Presenter	Title	Affiliation	Session Code	Session Topic	Submission Profile	Venue (code)	Venue (EN)
2026/7/8	16:35-16:50	Oral Presentation	221	Haoze Yu	Single layer CMOS-Compatible Self-Selective Array with 10 ⁴ Rectification Ratio	Zhejiang University	D4-MR07-PM-B	Quantum, Neuromorphic, and Unconventional Computing - II	Quantum, Neuromorphic, and Unconventional Computing	MR07	VIP206 向学厅
2026/7/8	16:50-17:05	Oral Presentation	174	Aymen Romdhane	Multi-pillar VGSOT-MRAM Crossbar for Energy-Efficient Analog In-Memory Computing	French Alternative Energies and Atomic Energy Commission	D4-MR07-PM-B	Quantum, Neuromorphic, and Unconventional Computing - II	Quantum, Neuromorphic, and Unconventional Computing	MR07	VIP206 向学厅
2026/7/8	17:05-17:20	Oral Presentation	57	Yongqiang Zhang	Design of Median Filters in Stochastic Computing	Hefei University of Technology	D4-MR07-PM-B	Quantum, Neuromorphic, and Unconventional Computing - II	Quantum, Neuromorphic, and Unconventional Computing	MR07	VIP206 向学厅
2026/7/8	Conference Closing										

Date	Time	#	ID	Presenter	Title	Affiliation	Session Code	Session Topic	Submission Profile	Venue (code)	Venue (EN)
				POSTER SESSIONS							
2026/7/6	15:50-17:50	Poster Presentation	14	Hongwei Liu	A Device Modeling Framework for Emerging Transistors of New Material and Advanced Structure	Institute of Microelectronics, Chinese Academy of Sciences	Poster Session #1	POSTER SESSION	Nano-Materials	Board No. #1	Poster Area
2026/7/6	15:50-17:50	Poster Presentation	54	MingChao Wu	A PMMA-Modified Gelatin/ITZO Synaptic Transistor for Recyclable and In-Sensor Edge Computing Systems	Guangdong University of Technology	Poster Session #1	POSTER SESSION	Nano-Materials	Board No. #2	Poster Area
2026/7/6	15:50-17:50	Poster Presentation	65	Zhonglin Zhang	Organic Optoelectronic Synaptic Transistors Toward Hardware-Aware Transfer Learning for Satellite Scene Classification	Nanjing University	Poster Session #1	POSTER SESSION	Quantum, Neuromorphic, and Unconventional Computing	Board No. #3	Poster Area
2026/7/6	15:50-17:50	Poster Presentation	67	Zehao Wu	Design of an Adaptive Third-Order Fixed-Time Integral Sliding-Mode Controller for XY Compliant Parallel Micromanipulator Systems	University of Macau	Poster Session #1	POSTER SESSION	Nanorobotics and Nanomanufacturing	Board No. #4	Poster Area
2026/7/6	15:50-17:50	Poster Presentation	72	Yuan He	Material Effects on Polarization Reversal: A Theoretical Comparison between Doped AlN and GaN Wurtzite Systems	Zhejiang University	Poster Session #1	POSTER SESSION	Modeling and Simulation	Board No. #5	Poster Area
2026/7/6	15:50-17:50	Poster Presentation	82	Xingji Liu	Cost-Effective Indium-Free Ga-Sn-O Synaptic Transistor with Rich Dynamics for Brain-Inspired Computing	Guangdong University of Technology	Poster Session #1	POSTER SESSION	Quantum, Neuromorphic, and Unconventional Computing	Board No. #6	Poster Area
2026/7/6	15:50-17:50	Poster Presentation	90	Jiao Bai	Sm-Doped HfO2 Ferroelectric Memristors with Emulated Synaptic Plasticity Directly Deposited on Si Substrates	Nanjing University of Aeronautics and Astronautics	Poster Session #1	POSTER SESSION	Nano-Materials	Board No. #7	Poster Area
2026/7/6	15:50-17:50	Poster Presentation	100	Erya Deng	A Low-Power Non-volatile TCAM with 2-Bit Encoding and Dynamic Power Gating	Nanjing University of Aeronautics and Astronautics	Poster Session #1	POSTER SESSION	Spintronics	Board No. #8	Poster Area
2026/7/6	15:50-17:50	Poster Presentation	218	Erya Deng	An Energy-Efficient Time-Domain CIM Macro With Self-Referenced Scheme for STT-MRAM	Nanjing University of Aeronautics and Astronautics	Poster Session #1	POSTER SESSION	Spintronics	Board No. #9	Poster Area
2026/7/6	15:50-17:50	Poster Presentation	125	Jonghun Lee	Analysis and Design of Impedance-Tunable Nanoparticle–Epoxy Acoustic Hologram Lenses for Multifocal Ultrasound Fields	Kyungpook National University	Poster Session #1	POSTER SESSION	Nano-Acoustic Devices, Processes, and Materials	Board No. #10	Poster Area
2026/7/6	15:50-17:50	Poster Presentation	154	Meiqi Xi	A Ternary Inverter Based on Carbon Nanotube/Molybdenum Disulfide Heterojunction	Peking University	Poster Session #1	POSTER SESSION	Nanoelectronics	Board No. #11	Poster Area
2026/7/6	15:50-17:50	Poster Presentation	171	Shanshan Liu	Mixed-Precision Floating-Point Arithmetic for Highly Accurate Artificial Neural Networks	University of Electronic Science and Technology of China	Poster Session #1	POSTER SESSION	Nanoelectronics	Board No. #12	Poster Area
2026/7/6	15:50-17:50	Poster Presentation	104	Linhui Wang	A Multimodal Wearable Bioelectronic System Enabling Silent-Speech Human-Computer Interaction	ShanghaiTech University	Poster Session #1	POSTER SESSION	Nanotechnology for Soft Electronics	Board No. #13	Poster Area
2026/7/6	15:50-17:50	Poster Presentation	240	Augustine Boakye Yiadom	Machine Learning-Based Inverse Design of Magnetic Nanoparticle Hyperthermia Under Brezovich Safety Constraints	Kwame Nkrumah University of Science and Technology	Poster Session #1	POSTER SESSION	Nanomagnetics	Board No. #14	Poster Area
2026/7/6	15:50-17:50	Poster Presentation	249	Yuqing Zhang	Optimization Research on MoTe2 Memristors: Size and Temperature Effects	Southeast University	Poster Session #1	POSTER SESSION	Low-dimensional Nanomaterials and their Nanoelectronics (11c7g)	Board No. #15	Poster Area
2026/7/6	15:50-17:50	Poster Presentation	261	Tianle Liu	Binary-Solvent-Controlled Growth of Quasi-2D Perovskite Single Crystals With Aromatic-Spacers for Stable Photodetection	Shanghai Jiao Tong University	Poster Session #1	POSTER SESSION	Nano-Materials	Board No. #16	Poster Area
2026/7/6	15:50-17:50	Poster Presentation	271	Mingyi Du	Scaled Crystalline Antimony Ohmic Contacts for Two-Dimensional Transistors	Nanjing University	Poster Session #2	POSTER SESSION	Low-dimensional Nanomaterials and their Nanoelectronics (11c7g)	Board No. #17	Poster Area
2026/7/6	15:50-17:50	Poster Presentation	280	Yelak Abebe	Enhancing Lithium Iron Phosphate as a Cathode Material by Codoping with Nickel and Silicon: A First-Principles Study	Pusan National University	Poster Session #2	POSTER SESSION	Modeling and Simulation	Board No. #18	Poster Area
2026/7/6	15:50-17:50	Poster Presentation	296	Dua Fatima	Computational Design of Water-Resistant Adhesives Mimicking the Mussel Foot Proteins	Pusan National University	Poster Session #2	POSTER SESSION	Modeling and Simulation	Board No. #19	Poster Area
2026/7/6	15:50-17:50	Poster Presentation	299	Lei Yan	Plasma Emission Characteristics during Sputtering of Thulium Iron Garnet	Kyushu University	Poster Session #2	POSTER SESSION	Emerging Plasma Nanotechnologies	Board No. #20	Poster Area
2026/7/6	15:50-17:50	Poster Presentation	307	Namwook Hur	Threshold Switching in Elemental Disordered Tellurium Realized by On-Device Cryogenic Melt-Quenching	Ulsan National Institute of Science and Technology	Poster Session #2	POSTER SESSION	Nanoelectronics	Board No. #21	Poster Area
2026/7/6	15:50-17:50	Poster Presentation	348	Mohamed Yassin	Green Synthesis, Characterization, and Biomedical Activity of Silver Nanoparticles Using Kleinia antephorbium Aqueous Extract	King Fahd University of Petroleum and Minerals	Poster Session #2	POSTER SESSION	Nano-biomedicine	Board No. #22	Poster Area
2026/7/7	15:50-17:50	Poster Presentation	319	Dhandayuthapani Thiagarajan	Nanoscale Interface Engineering of CoWO4/Co3O4 Nanorod Heterostructures for Efficient Water Oxidation	Chonnam National University	Poster Session #2	POSTER SESSION	Nano-Energy, Environment, and Safety	Board No. #1	Poster Area
2026/7/7	15:50-17:50	Poster Presentation	328	Gilhwan Do	Multi-Timescale Reservoir Computing via Co-Integrated Ionic-Electronic Dynamic System for Adaptive Temporal Inference	Korea Advanced Institute of Science and Technology	Poster Session #2	POSTER SESSION	Quantum, Neuromorphic, and Unconventional Computing	Board No. #2	Poster Area

Date	Time	#	ID	Presenter	Title	Affiliation	Session Code	Session Topic	Submission Profile	Venue (code)	Venue (EN)
2026/7/7	15:50-17:50	Poster Presentation	332	Shuyun Zhuo	Robust Skin-Interfaced Wearable Sensors Based on Stiffness- and Adhesion-Memory Materials	Beihang University	Poster Session #2	POSTER SESSION	Nano-Materials	Board No. #3	Poster Area
2026/7/7	15:50-17:50	Poster Presentation	335	Aiden Graham	Device Variability–Aware Synaptic Architectures for Robust Memristor Neural Networks	University of Southampton	Poster Session #2	POSTER SESSION	Quantum, Neuromorphic, and Unconventional Computing	Board No. #4	Poster Area
2026/7/7	15:50-17:50	Poster Presentation	341	Xiaoyu Wang	In-situ Exsolved Bimetallic Nanoparticles on Double Perovskite for Efficient CO2 Electrolysis and Synergistic Methane Reforming in SOEC	Nanjing University of Science and Technology	Poster Session #2	POSTER SESSION	Nano-Materials	Board No. #5	Poster Area
2026/7/7	15:50-17:50	Poster Presentation	355	Beng Kang Tay	Impact of Thermocompression-Induced Buckling on SubTerahertz Electrical Performance of Vertically Aligned Carbon Nanotube-Based Passive Devices	Nanyang Technological University	Poster Session #2	POSTER SESSION	Nanoelectronics	Board No. #6	Poster Area
2026/7/7	15:50-17:50	Poster Presentation	359	Shichen Li	Dual-Functional Photothermal-Responsive PVDF-HFP/CDs@BN Nanofibrous Membranes for Advanced Oil-Water Remediation	Nantong University	Poster Session #2	POSTER SESSION	Nano-Materials	Board No. #7	Poster Area
2026/7/7	15:50-17:50	Poster Presentation	360	Chanhui Park	Nanoparticle-Functionalized Microfluidic Bioelectric Sutures for Enhanced Electrochemical Sensing and Stimulation	Seoul National University	Poster Session #2	POSTER SESSION	Nano-Materials	Board No. #8	Poster Area
2026/7/7	15:50-17:50	Poster Presentation	368	Yingjia Gao	Simulation of Electrostatic Quantum Dots with Mixed Finite Element Method	University of Glasgow	Poster Session #2	POSTER SESSION	Modeling and Simulation	Board No. #9	Poster Area
2026/7/7	15:50-17:50	Poster Presentation	378	Jeeyoung Kim	Welding Control of Gold Nanoparticle Assembly for Stretchable Bioelectronics	Seoul National University	Poster Session #2	POSTER SESSION	Nanotechnology for Soft Electronics	Board No. #10	Poster Area
2026/7/7	15:50-17:50	Poster Presentation	380	Jeongin Yeo	Reconfigurable Oxygen-Vacancy-Driven Conductance Switching in Layered α -MoO ₃	Ulsan National Institute of Science and Technology	Poster Session #2	POSTER SESSION	Nano-Materials	Board No. #11	Poster Area
2026/7/7	15:50-17:50	Poster Presentation	384	Ki-Yoon Park	Ultrasound-Driven Triboelectric Nanogenerators with Acoustically Engineered Metal Mesh Electrodes	Gachon University	Poster Session #3	POSTER SESSION	Nano-Energy, Environment, and Safety	Board No. #12	Poster Area
2026/7/7	15:50-17:50	Poster Presentation	385	Yongbin Han	Modulation of Crystallinity in Electrospun P(VDF-TrFE) Nanofibers via Solvent Control for Multifunctional Energy Harvesting	Gachon University	Poster Session #3	POSTER SESSION	Nano-Energy, Environment, and Safety	Board No. #13	Poster Area
2026/7/7	15:50-17:50	Poster Presentation	388	Minghao Lou	Estimation of Surface Potential of PMMA and Ni-P Microparticles from Levitation in a Plasma Sheath	Kyushu University	Poster Session #3	POSTER SESSION	Emerging Plasma Nanotechnologies	Board No. #14	Poster Area
2026/7/7	15:50-17:50	Poster Presentation	392	Seong Hyeok Park	An Investigation on the Effects of High Crosslinking Density in Conductive Polymers on Thermal and Electrical Properties	Pusan National University	Poster Session #3	POSTER SESSION	Nanotechnology for Soft Electronics	Board No. #15	Poster Area
2026/7/7	15:50-17:50	Poster Presentation	399	Yuxuan Xue	In-Situ Single Molecule Nanorobot Quantifies Transmembrane Protein Recognition at Human Blastocyst Endometrium Interface	The University of Hong Kong	Poster Session #3	POSTER SESSION	Nanorobotics and Nanomanufacturing	Board No. #16	Poster Area
2026/7/7	15:50-17:50	Poster Presentation	413	Aishah Mughal	Thickness-Dependent Magnetisation Reversal in CrTe2 Van Der Waals Magnets	Royal Holloway, University of London	Poster Session #3	POSTER SESSION	Modeling and Simulation	Board No. #17	Poster Area
2026/7/7	15:50-17:50	Poster Presentation	427	Bo Wang	Flexible PtSe2 Transistors with Negligible Mobility Degradation under Strain	Southeast University	Poster Session #3	POSTER SESSION	Nanofabrication & Nano-sensors (27v1y)	Board No. #18	Poster Area
2026/7/7	15:50-17:50	Poster Presentation	428	Peiyi Zhao	A Power Consumption Survey of 6 State-of-the-Art Low Power Flip-Flops In Light Of Modern Data Centre Dominated Landscape	Chapman University	Poster Session #3	POSTER SESSION	Heterogenous Integration and Chiplets	Board No. #19	Poster Area
2026/7/7	15:50-17:50	Poster Presentation	441	Tong Wang	Sequence-Dependent Single-Molecule DNA Sensing Using 2D COF-Phospholipid Composite Nanopore	Nanjing University	Poster Session #3	POSTER SESSION	Nanosensors and Nanoactuators	Board No. #20	Poster Area
2026/7/7	15:50-17:50	Poster Presentation	177	Mingwei Feng	Dynamic Processes in Chemical-Vapor Deposition of Transition-Metal Dichalcogenides Revealed by AI-Driven Operando Metrology	Nanjing University	Poster Session #3	POSTER SESSION	AI for Nanomaterials Design and Fabrication (c1195)	Board No. #21	Poster Area