



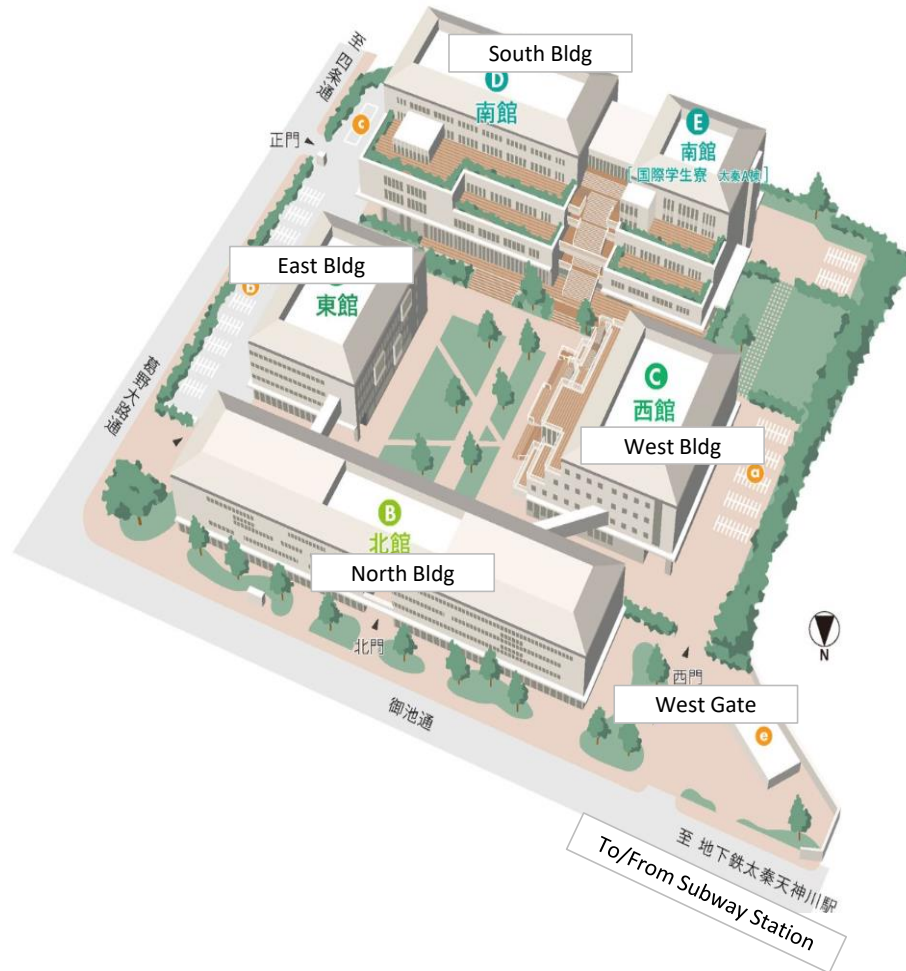
			Main hall	Room A	Room B	Room C	Room D	Room E	Poster & Exhibit	
			Science Hall	Room S306	Room S307	Room S311	Room S312	Room S313	Advanced Hall	
			1F, South Bldg.	3F, South Bldg.					1F, South Bldg.	
2-May	17:00		Registration opens at 1F South Bldg.							
	18:00-		Welcome reception @ Advanced Hall, KUAS							
3-May	8:00		Registration opens							
	9:00-9:25	Opening	Opening Ceremony							
	9:25-10:15	Plenary Talk	PS1 Plenary talk Quantum information technologies using photons -entangled photon sources, single light emitters, and their applications - Prof. Shigeki Takeuchi, Kyoto University							
	10:15-10:30		Break							
	10:30-12:30	Oral Session		3A1	3B1	3C1	3D1	3E1		
	12:30-13:30		Lunch							
	13:30-14:50	Oral Session		3A2	3B2	3C2	3D2	3E2		
	15:00-16:20	Oral Session		3A3		3C3	3D3	3E3		
16:20-18:00	Poster Session							3P1,3P2,3P3, 3P4, Exhibition		
4-May	8:00		Registration opens							
	9:00-9:50	Plenary Talk	PS2 Plenary Talk Molecular Tips for AFM-Based Force Spectroscopy and Nano Lithography Prof. Yoko Yamakoshi, ETH Zürich							
	9:50-10:00		Break							
	10:00-12:00	Oral Session		4A1	4B1	4C1	4D1	4E1		
	12:00-13:00	Oral Session	SS1: Lunch and Learn Session Special Session on How to Actively Get Involved in the Organization of IEEE-NTC International Conferences Prof. Kremena Makasheva, CNRS Prof. Osamu Tabata, Kyoto University of Advanced Science		Lunch					
	13:00-15:00	Oral Session		4A2	4B2	4C2	4D2	4E2		
	15:00-16:20	Poster Session							4P1,4P2,4P3, 4P4, Exhibition	
	16:20-17:00	Special Keynote Lecture	SS2: Special Keynote Lecture AI E-Skin Sensors for Human-Metaverse Interaction Prof. Wen J. Li, City University of Hong Kong							
	18:00-20:00		IEEE-NEMS 2024 Banquet @ Hotel Granvia Kyoto, adjacent to JR Kyoto Strn.							
5-May	8:00		Registration opens							
	9:00-9:50	Plenary Talk	PS3 Leveraging Semiconductor Eco-systems to MEMS Prof. Weileun Fang, National Tsing Hua University, Taiwan							
	9:50-10:05		Break							
	10:05-12:20	Oral Session		5A1	5B1	5C1	5D1	5E1		
			Exhibition at foyer, 3F							
	12:20-13:20		Lunch							
	13:20-15:00	Oral Session		5A2	5B2	5C2	5D2			
15:00-15:10		Break								
15:10-15:30	Closing	Closing Ceremony								

[IEEE-NEMS 2024](#)

May 2-5, 2024

Kyoto University of Advanced Science (KUAS)

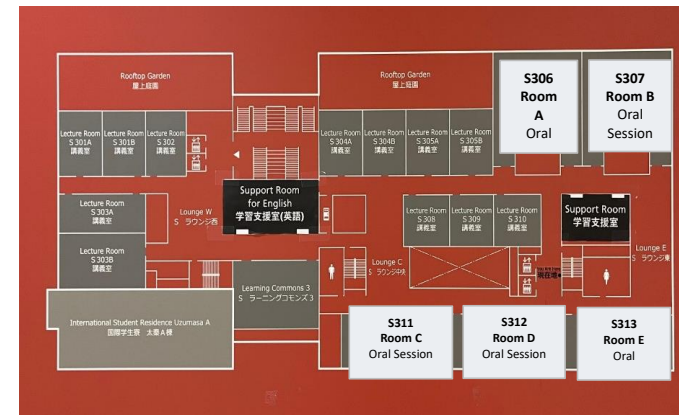
South Building



South Bldg., 1F



South Bldg., 3F



IEEE-NEMS 2024 Session Schedule - Regular Papers

Paper ID	Paper Title	Session Name	Paper Order	Session Type L=Lecture P=Poster	Session Start Time	Session End Time	Session Location	Author Full Names	Organizations
7024	Tunable Fluorescent nitrogen-Doped Ti3C2 MXene-Derived Quantum Dots for Ultrasensitive Tetracycline Sensing	3D1: Micro/Nano/Molecular Fabrication and Materials 1	1	L	2024/5/3 10:30	2024/5/3 12:30	Room D	Van Thanh Nguyen, Ruey-An Doong	National Tsing Hua University, Taiwan
7220	Neurosynaptic Array Based on Two-Terminal Au Nanoparticle Floating Gate Memristor	3D1: Micro/Nano/Molecular Fabrication and Materials 1	2	L	2024/5/3 10:30	2024/5/3 12:30	Room D	Hongwoon Yun, Woo Jong Yu	Sungkyunkwan University, Korea
7232	A RF Resonator-Based Structure for Wireless Passive Displacement Sensing	3D1: Micro/Nano/Molecular Fabrication and Materials 1	3	L	2024/5/3 10:30	2024/5/3 12:30	Room D	Hu Shengze, Zhao Ziqi, Yamamoto Michitaka, Takamatsu Seiichi, Itoh Toshihiro	University of Tokyo, Japan
7129	Flexible Transparent micropatterned Conductive Films Fabricated Using Liquid Film Rupture self-Assembly Method	3D1: Micro/Nano/Molecular Fabrication and Materials 1	4	L	2024/5/3 10:30	2024/5/3 12:30	Room D	Xin-Ran Zhang, Xu Zeng, Yi-Lin Wang, Peng Huang, Xiao-Sheng Zhang	University of Electronic Science and Technology of China, China
7173	OSTE Micro Mushroom Forest: a Superhydrophobic Substrate by Polymer Off-Stoichiometry Thiol-Ene (OSTE)	3D1: Micro/Nano/Molecular Fabrication and Materials 1	5	L	2024/5/3 10:30	2024/5/3 12:30	Room D	Haonan Li{2}, Muiyang Zhang{2}, Shangneng Yu{2}, Zejingqiu Chen{2}, Zitao Feng{2}, Jie Zhou{2}, Qinghao He{2}, Xingwei Zhang{2}, Huiru Zhang{1}, Weijin Guo{2}	{1}Guangdong Foshan Lianchuang Graduate School of Engineering, China; {2}Shantou University, China
7234	Accuracy Evaluation of 3 Dimensional Microstructures Fabricated by Prism-Assisted 3D Lithography	3D1: Micro/Nano/Molecular Fabrication and Materials 1	6	L	2024/5/3 10:30	2024/5/3 12:30	Room D	Yufei Chen, Yuya Tanaka, Takaaki Suzuki	Gunma University, China; Gunma University, Japan
7168	Microextrusion-Based 3D Printing for Mesoscale Interfacial Structural Designing in Anode-Supported Solid Oxide Fuel Cells	3D1: Micro/Nano/Molecular Fabrication and Materials 1	7	L	2024/5/3 10:30	2024/5/3 12:30	Room D	Haewon Seo	Korea Institute of Science and Technology, Korea
7104	Direct Electrical Heating and Multi-Cycle Stretching Method for Micro Wire Straightening	3D1: Micro/Nano/Molecular Fabrication and Materials 1	8	L	2024/5/3 10:30	2024/5/3 12:30	Room D	Yan Xu, Xianghe Meng, Xingjian Shen, Xiaomo Wu, Hui Xie	State key Laboratory of Robotics and Systems, Harbin Institute of Technology, China
7114	Selective Micro-Transfer Printing of Microspheres Using Adhesion-Switchable Stamp	3E1: Finalist Session 1	1	L	2024/5/3 10:30	2024/5/3 12:30	Room E	Lizhou Yang, Qinhuo Guo, Jingyang Zhang, Yawen Gan, Yunda Wang	Hong Kong University of Science and Technology, China
7153	2–16 GHz Multifrequency X-Cut Lithium Niobate NEMS Resonators on a Single Chip	3E1: Finalist Session 1	2	L	2024/5/3 10:30	2024/5/3 12:30	Room E	Ryan Tetro, Luca Colombo, Matteo Rinaldi	Northeastern University, United States
7283	Wafer Scalable Synthesis of MoS2 Nanostructures for Photosensing Applications	3E1: Finalist Session 1	3	L	2024/5/3 10:30	2024/5/3 12:30	Room E	Sharmila B, Priyanka Dwivedi	Indian Institute of Information Technology, Sri City, India
7166	Through Silicon via (TSV)-Embedded Graphene-Silicon Photodetector Array for 3D Stacked CMOS Integration	3E1: Finalist Session 1	4	L	2024/5/3 10:30	2024/5/3 12:30	Room E	Xiaochen Wang, Yongliang Xie, Hao Ning, Feng Tian, Yunfei Xie, Muhammad Abid Anwar, Jiangming Lin, Srikrishna Chanakya Bodepudi, Bin Yu, Yang Xu	Zhejiang University, China
7233	Quadrature Error Correction System for Disk Ring Gyroscope Using (100) Single Crystal Silicon	3E1: Finalist Session 1	5	L	2024/5/3 10:30	2024/5/3 12:30	Room E	Junying Yang, Tiantian Wang, Congchen Wang, Jianlin Chen, Qinghua Ren, Yiming Ma, Nan Wang	Shanghai University, China
7223	3D Printed Cell and Fiber Guiding Scaffold Mimicking Periodontal Architecture	3E1: Finalist Session 1	6	L	2024/5/3 10:30	2024/5/3 12:30	Room E	Sarin Abraham{1}, Pallavi Gupta{1}, Kavitha Govarathanan{2}, Suresh Rao{1}, Tuhin Subhra Santra{1}	{1}Indian Institute of Technology Madras, India; {2}Institute for Stem Cell Science and Regenerative Medicine, India
7245	Micro-Scale Modular CMOS Readout Electronics for Multi-Modal Sensor Arrays	3E1: Finalist Session 1	7	L	2024/5/3 10:30	2024/5/3 12:30	Room E	Roman Willaredt{2}, Daniel De Dorigo{2}, Christoph Grandauer{3}, Daniel Wendler{2}, Dhivya Manharan{1}, Stephan Knappmann{1}, Helmut Schottmann{1}, Alfons Dehner{1}, Matthias Kuhl{2}	{1}Hahn-Schickard, Germany; {2}Laboratory for Microelectronics, Albert-Ludwigs-Universität Freiburg, Germany; {3}Laboratory for Microelectronics, University of Freiburg, Germany
7363	LIG-OSS: Integrated Laser-Induced-Graphene Sensor and Open-Source Silicon Chip for an Affordable and Robust Wearable Sensing System with Precise Temperature, Humidity, and Strain Sensing Capability	3E1: Finalist Session 1	8	L	2024/5/3 10:30	2024/5/3 12:30	Room E	Hongyi Wu{2}, Anhang Li{2}, Gregory Kielian{1}, Mehdi Saligane{2}	{1}Google LLC Mountain View, United States; {2}University of Michigan, United States

IEEE-NEMS 2024 Session Schedule - Regular Papers

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7056	A Dual-Aptamer Sandwich Assay for Detection of C-Reactive Protein on an Integrated Microfluidic System	3E2: Finalist Session 2	1	L	2024/5/3 13:30	2024/5/3 14:50	Room E	To-Wen Chen, Chih-Hung Wang, Gwo-Bin Lee	National Tsing Hua University, Taiwan
7076	Harnessing Nature's Fury: Hyptis Suaveolens-IR775 Encapsulated Biodegradable Liposome for Combinatorial Photothermal Therapy of Lung Cancer	3E2: Finalist Session 2	2	L	2024/5/3 13:30	2024/5/3 14:50	Room E	Sajmina Khatun, Monika Pebam, Anamika Verma, Aravind Kumar Rengan	Indian Institute of Technology Hyderabad, India
7165	Machine-Learning Assisted Dual-Primer High-Resolution Melt for Bacterial and Fungal Infections Detection	3E2: Finalist Session 2	3	L	2024/5/3 13:30	2024/5/3 14:50	Room E	Pei-Wei Lee, Marissa Totten, Amelia Traylor, Sean Zhang, Kuangwen Hsieh, Tza-Huei Wang	Johns Hopkins University, United States
7271	Cancer Biomarker Detection in a Portable, Automated, Multi-Channel Magnetofluidic Platform	3E2: Finalist Session 2	4	L	2024/5/3 13:30	2024/5/3 14:50	Room E	Alexander Hasnain, Alejandro Stark, Alexander Trick, Ke Ma, Kuangwen Hsieh, Yulan Cheng, Stephen Meltzer, Tza-Huei Wang	Johns Hopkins University, United States
7079	Distinguishing Between dsDNA and DNA with a Single-Base Mismatch Using Solid-State Nanopores	3E3: Finalist Session 3	1	L	2024/5/3 15:00	2024/5/3 16:20	Room E	Xiaojing Hu, Yin Zhang	Southeast University, China
7087	A Novel One-Aptamer-One-Antibody Assay for Detection of Alpha Defensins HNP 1-3 in Synovial Fluid for Diagnosis of Periprosthetic Joint Infections	3E3: Finalist Session 3	2	L	2024/5/3 15:00	2024/5/3 16:20	Room E	Gwo-Bin Lee{2}, Rishabh Gandotra{2}, Hung-Bin Wu{2}, Feng-Chih Kuo{1}, Mel S Lee{3}	{1}Kaohsiung Chang Gung Memorial Hospital, Taiwan; {2}National Tsing Hua University, Taiwan; {3}Paochien Hospital, Taiwan
7253	Controlled Synthesis of Branched Gold Nanoparticles by Microfluidic Device for Light-Activated Biomolecular Delivery	3E3: Finalist Session 3	3	L	2024/5/3 15:00	2024/5/3 16:20	Room E	Kavitha Illath{1}, Moeto Nagai{3}, Tuhin Subhra Santra{1}, Srabani Kar{2}	{1}Indian Institute of Technology Madras, India; {2}Indian Institutes of Science Education and Research, India; {3}Toyohashi University of Technology, Japan
7273	Membrane Protein Synthesis and Reconstitution Into Monodisperse Giant Unilamellar Vesicles Produced by Microfluidics	3E3: Finalist Session 3	4	L	2024/5/3 15:00	2024/5/3 16:20	Room E	Satoshi Nanjo{1}, Mamiko Tsugane{1}, Tomoaki Matsuura{2}, Hiroaki Suzuki{1}	{1}Chuo University, Japan; {2}Tokyo Institute of Technology, Japan
7025	A Quality Factor Matching Method for MEMS Disk Resonator Gyroscope in Rate Mode	3P1: Poster 1	1	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 1	Jingbo Ren, Tong Zhou, Yi Zhou, Yixuan Li, Yan Su	Nanjing University of Science and Technology, China
7026	Metallic Microneedle Electrode Array (m-MNEA) as a Novel Intracortical Neural Interface	3P1: Poster 1	2	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 1	Junshi Li{2}, Zhongyan Wang{2}, Xiaoyi Shi{2}, Dong Huang{1}, Yuqing Zheng{2}, Zhihong Li{2}	{1}Acimicro Medical Technology, Co., Ltd., China; {2}Peking University, China
7027	An Enhanced Phononic Frequency Comb via Feedthrough Effect Cancellation	3P1: Poster 1	3	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 1	Hongyu Chen{2}, Dongyang Chen{2}, Yi Gao{1}, Ronghua Huan{2}, Jin Xie{2}	{1}Xi'an Jiaotong University, China; {2}Zhejiang University, China
7038	Minimal Flame Spray Pyrolysis (mFP) - One-Step Synthesis of Nanoscale Metal Oxide (MOX) Material	3P1: Poster 1	4	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 1	Kuan Wen Lou, Chun Lung Ho, Yi Ping Ho	Chinese University of Hong Kong, Hong Kong
7045	Mechanical Quality Factor Evaluation of Polymer Materials Using PZT/Polymer Integrated Piezoelectric Actuator	3P1: Poster 1	5	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 1	Xuchen Wang{2}, Chung-Min Li{1}, Yukio Suzuki{2}, Shuji Tanaka{2}	{1}AAC Technologies PTE.LTD, Singapore; {2}Tohoku University, Japan
7063	A Novel Calorimetric Flow Sensor Based on High TCF A1 Mode Resonators	3P1: Poster 1	6	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 1	Xuankai Xu, Ruihong Xiong, Lihui Jin, Tao Wu	ShanghaiTech University, China
7075	Electromechanical Characteristics of Free-Standing 20nm HfZrOx NEMS Resonator	3P1: Poster 1	7	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 1	Haoqi Lyu{1}, Wuhao Yang{1}, Hai Zhong{3}, Zhuohui Liu{2}, Zheng Wang{4}, Jingyi Zhang{1}, Chen Ge{2}, Xudong Zou{1}	{1}Aerospace Information Research Institute, Chinese Academy of Sciences, China; {2}Institute of Physics, Chinese Academy of Sciences, China; {3}Ludong University, China; {4}QiLu Aerospace Information Research Institute, China
7081	SPIICE Modeling of a Transistor-Like Droplet-Based Electricity Generator (DEG)	3P1: Poster 1	8	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 1	Huimin Zhang, Zhourui Liu, Nan Zhang, Xiaofeng Zhou	East China Normal University, China

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7124	Design and Manufacture of MEMS Deformable Mirror Based on Piezoelectric Actuator with 61 Electrodes	3P1: Poster 1	9	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 1	Xiang Guo{2}, Yuanlin Xia{2}, Cao Xia{2}, Isaku Kanno{1}, Zhuqing Wang{2}	{1}Kobe University, Japan; {2}Sichuan University, China
7144	An Ultra-High Performance Bio-Triboelectric Nanogenerator via Interfacial Polarization	3P1: Poster 1	10	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 1	Fayang Wang{2}, Pengfan Wu{2}, Endian Cui{2}, Zhenfeng Ji{2}, Jizhen Li{2}, Xiaojing Mu{1}	{1}Chongqing University, China; {2}Key Laboratory of Optoelectronic Technology & Systems Ministry of Education, International R & D, China
7193	Nano-Pore Fabrication Using Conventional 3D Printer	3P1: Poster 1	11	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 1	Sungyeol Kwak, Seongjun Hong, Sungjae Ha, Sung Jae Kim	Seoul National University, Korea
7196	GELMA Encapsulated Single to Multicell Patterning for Tissue Engineering Applications	3P1: Poster 1	12	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 1	Sarin Abraham{1}, Suresh Rao{1}, Moeto Nagai{2}, Tuhin Subhra Santra{1}	{1}Indian Institute of Technology Madras, India; {2}Toyohashi University of Technology, Japan
7200	Porous Graphene-Based Flexible On-Chip Microsupercapacitors Enabled by Chitosan Oligosaccharide Laser Lithograph	3P1: Poster 1	13	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 1	Qian-Ming Huang{5}, Huiru Yang{3}, Shaogang Wang{4}, Guoqi Zhang{1}, Paddy French{1}, Huaiyu Ye{2}	{1}Delft University of Technology, Netherlands; {2}South University of Science and Technology of China, China; {3}Southern University of Science and Technology, China; {4}Southern University of Science and Technology, Delft University of Technology, China; {5}Southern University of Science and Technology, Harbin Institute of Technology, China
7202	AIN SAW Humidity Sensing Enhancement with MXenes	3P1: Poster 1	14	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 1	Zhong-Hong Yen{3}, Chien-Sheng Huang{3}, Shih-Hung Lin{3}, Jui-Yang Feng{2}, Hung-Yin Lin{2}, Po-Ching Kao{1}, Che-Hao Liao{3}	{1}National Chiayi University, Taiwan; {2}National University of Kaohsiung, Taiwan; {3}National Yunlin University of Science and Technology, Taiwan
7241	Magnetic PN Junction Based on Van der Waals V-Doped in-Plane Heterostructure	3P1: Poster 1	15	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 1	Whan Kyun Kim, Namgun Kim, Woo Jong Yu	Sungkyunkwan University, Korea
7265	ELEVATED-Temperature Creep Behaviors of Silicon Films with Crystallographic Dependences	3P1: Poster 1	16	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 1	Takanori Horikawa, Kazuma Sawada, Akio Uesugi, Koji Sugano, Yoshitada Isono	Kobe University, Japan
7356	NEMS Force Sensors Based on Suspended Graphene Membranes	3P1: Poster 1	17	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 1	Xiaoya Liang, Qi Zhang, Xing Pang, Yulong Zhao, Hongzhong Liu	Xi'an Jiaotong University, China
7029	Bio-Inspired Adhesive Magnetic Soft Microrobot Based on Photolithography	3P2: Poster 2	1	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 2	Xingyue Hu, Junfeng Wu, Lianqing Liu, Niandong Jiao	Shenyang Institute of Automation, Chinese Academy of Sciences, China
7040	Diamond NEMS Resonators for Real-Time Dual Sensing of Magnetic Fields and Temperatures Up to 500°C	3P2: Poster 2	2	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 2	Zilong Zhang{2}, Keyun Gu{2}, Guo Chen{1}, Yasuo Koide{2}, Satoshi Koizumi{2}, Meiyong Liao{2}	{1}China University of Geosciences, National Institute for Materials Science, Japan; {2}National Institute for Materials Science, Japan
7055	Effect of Graphene Nanofluids Contact Angle on the Visualization and Metal Pulsating Heat Pipe	3P2: Poster 2	3	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 2	Yachi Ho, Dajeng Yao	National Tsing Hua University, Taiwan
7069	Design of MEMS Thermal Actuator by CNN and PSO	3P2: Poster 2	4	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 2	Jiali Wang, Yun Cao, Mo Yang, Weirong Nie, Hutian Feng, Zhanwen Xi	Nanjing University of Science and Technology, China
7102	High-Throughput and Simultaneous Separation of Tumor Cells and Clusters from Malignant Effusions Using Spiral-contraction-Expansion Inertial Microfluidics	3P2: Poster 2	5	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 2	Nan Xiang, Zhixian Zhu, Zhonghua Ni	Southeast University, China
7128	A Microfluidic Platform for Collective Endothelial Cell Migration Assay Under Glucose Gradient and Cyclic Hypoxia Stimuli	3P2: Poster 2	6	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 2	Chia-Pei Wang{1}, Kuang-Hsing Chiang{2}, Nien-Tsu Huang{1}	{1}National Taiwan University, Taiwan; {2}Taipei Medical University, Taiwan

IEEE-NEMS 2024 Session Schedule - Regular Papers

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7134	Development of a Multiplex-crRNA CRISPR/Cas12a-Based Diagnostic Platform for Antibiotic-Resistance Genes	3P2: Poster 2	7	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 2	Wen-Yu Kang, Hsin-Ying Ho, Wen-Hung Wang, Ling-Shan Yu	National Sun Yat-sen University, Taiwan
7135	Rapid and Sensitive CRISPR/Cas12a-Based Diagnostic Utilizing Gold Nanoparticles for Enhanced Fluorescence Detection of Human Papillomavirus Type 16	3P2: Poster 2	8	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 2	Fang-Ying Lai, Hsin-Ying Ho, Ling-Shan Yu	National Sun Yat-sen University, Taiwan
7158	A Highly Compliant Piezoelectric Swallow Patch Sensor for NON-Invasive Swallow Sensing	3P2: Poster 2	9	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 2	Meng-Siou Li, Chia-Hao Shih, Yu-Hsiang Hsu	National Taiwan University, Taiwan
7178	Iontophoresis Patch with Bipolar Porous Microneedles for Transdermal Dual Delivery	3P2: Poster 2	10	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 2	Shotaro Tottori, Gaobo Wang, Kosuke Kato, Sae Ichinose, Matsuhiko Nishizawa	Tohoku University, Japan
7183	Comparison of the Power Consumption Between SILICON- and GLASS-SUBSTRATE-Based MICRO-Hotplates with the Same Dimension and Different Fabrication Techniques	3P2: Poster 2	11	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 2	Honglin Qian{1}, Haotian Dai{1}, Linxin Chen{1}, Fanhong Chen{2}, Shuai Liu{2}, Xiaohui Du{2}, Bing Li{1}, Minjie Zhu{2}, Gaopeng Xue{1}	{1}Harbin Institute of Technology, China; {2}Instrumentation Technology and Economy Institute, China
7192	Advanced NO2 Gas Sensor Fabrication Through UV Laser-Induced Selective Reduction Laser Sintering	3P2: Poster 2	12	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 2	Shaogang Wang{4}, Qihang Zong{2}, Huiru Yang{3}, Qian-Ming Huang{5}, Huaiyu Ye{2}, Paddy French{1}	{1}Delft University of Technology, Netherlands; {2}South University of Science and Technology of China, China; {3}Southern University of Science and Technology, China; {4}Southern University of Science and Technology, Delft University of Technology, Netherlands; {5}Southern University of Science and Technology, Harbin Institute of Technology, China
7228	Accurate Detecting of Flammable and Toxic Gases Using Multi-Transduction Gas Sensor Array and Deep Learning	3P2: Poster 2	13	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 2	Mingu Kang{2}, Dionisio Del Orbe Henriquez{2}, Dae-Sik Lee{1}, Inkyu Park{2}	{1}Electronics and Telecommunications Research Institute, Korea; {2}Korea Advanced Institute of Science and Technology, Dominican Rep.; {2}Korea Advanced Institute of Science and Technology, Korea
7244	Effect of NANOGAP to RAMAN Intensity and Detection Probability of SURFACE-Enhanced RAMAN Spectroscopy	3P2: Poster 2	14	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 2	Yuga Nakamura, Tomoya Shinabe, Tomoya Nakanishi, Akio Uesugi, Koji Sugano, Yoshitada Isono	Kobe University, Japan
7252	Application of Embedded Capacitive Pressure Sensors in Pressure Drop Measurement of Microchannels	3P2: Poster 2	15	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 2	Xiaoda Cao{2}, Tiantong Xu{2}, Zhi Tao{1}, Haiwang Li{2}, Yanxin Zhai{2}	{1}Beihang University, China; {2}Research Institute of Aero-Engine, Beihang University, China
7258	Development of a Segmental Surface Treatment Method for a SELF-Priming TRI-Channel TUMOR-ON-A-Chip Device	3P2: Poster 2	16	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 2	Kai-Chieh Chang{2}, Yu-Zhou Lin{2}, Yu-Hsiang Hsu{2}, Yu-Chia Su{1}, Chi-Kuang Leo Wang{1}, Hsian-Jean Chin{1}	{1}National Laboratory Animal Center, Taiwan; {2}National Taiwan University, Taiwan
7034	Iterative Hierarchical Cascading Technique for Fast Dispersion Analysis of 3D Periodic Piezoelectric Resonators	3P3: Poster 3	1	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 3	Zihao Xie{2}, Dongze Lv{2}, Jin Xie{2}, Renjie Tan{1}	{1}Xi'an Jiaotong University, China; {2}Zhejiang University, China
7048	Ultrahigh Responsivity of Diamond-Based Solar-Blind Photodetectors Using Hydrogen Plasma Treatment	3P3: Poster 3	2	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 3	Keyun Gu{2}, Zilong Zhang{2}, Guo Chen{1}, Liwen Sang{2}, Jian Huang{3}, Yasuo Koide{2}, Meiyong Liao{2}	{1}China University of Geosciences, National Institute for Materials Science, Japan; {2}National Institute for Materials Science, Japan; {3}Shanghai University, China
7053	Polythiophene-Titanium Dioxide (PTh-TiO2) Nanocomposite Films for Hydrogen Peroxide Electrochemical Sensing	3P3: Poster 3	3	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 3	Ziliang Yang, Qianguo Yu, Kedong Bi, Yujuan Wang	Southeast University, China

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7061	A MEMS Spiral Power Inductor with a Magnetic Core for DC-DC Converters	3P3: Poster 3	4	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 3	Chongshu Shan{2}, Zilin Li{2}, Hengzhang Yang{2}, Yangyang Yan{3}, Bingyin Kang{1}, Huikai Xie{2}	{1}24th Research Institute of China Electronics Technology Group Corp., China; {2}Beijing Institute of Technology, China; {3}BIT Chongqing Institute of Microelectronics and Microsystems, China
7067	The MEMS MIRROR-Based Lidar System with Vertical Focusing Function for LONG-Range Human Recognition	3P3: Poster 3	5	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 3	Donghai Yang, Qingjiu Chen, Meng Chen, Xiaodong Yu, Guanglie Zhang, Wen Jung Li	City University of Hong Kong, China
7070	MASK-Guided Ultrasonic Atomization for Fabrication of Hydrophilic Arrays Enabling Controlled Droplet Generation and Reagent Delivery	3P3: Poster 3	6	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 3	Xiaochen Lai, Mingpeng Yang, Yanfei Sun, Yong Zhu, Xicheng Wang, Wangping Zhou	Nanjing University of Information Science & Technology, China
7071	The Suppression Mechanism of Parasitic Capacitance for Comb Capacitor Fabricated with Silicon-on-Insulation	3P3: Poster 3	7	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 3	Renjie Tan{2}, Juan Yang{3}, Libo Zhao{2}, Xiangguang Han{2}, Wei Li{1}, Yong Xia{2}, Yi Gao{2}, Chenying Wang{2}, Zhuangde Jiang{2}	{1}Xi'an Aerospace Propulsion Institute, China; {2}Xi'an Jiaotong University, China; {3}Xi'an Satellite Control Center, China
7094	Design Optimization of Graded Three-Dimensional Micropillar Wicks for Vapor Chamber Evaporators	3P3: Poster 3	8	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 3	Shangyang Shi{2}, Jianyu Du{2}, Shuyan He{2}, Hongxu Wu{2}, Huaiqiang Yu{1}, Chi Zhang{2}, Yufeng Jin{3}, Wei Wang{2}	{1}26th Research Institute of China Electronics Technology Group Corporation, China; {2}Peking University, China; {3}Peking University Shenzhen Graduate School, China
7118	ULTRA-Thin Transparent MULTI-Functional Sensor Based on Silk Hydrogel	3P3: Poster 3	9	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 3	Yi-Lin Wang, Peng Huang, Xin-Ran Zhang, Xu Zeng, Xiao-Sheng Zhang	University of Electronic Science and Technology of China, China
7121	A Microfluidic Platform for Analysis of Beating Characteristics of Sperm Cells	3P3: Poster 3	10	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 3	Aisha Hamidu{1}, Ahmed Azmeer{1}, Omar Abdelgawad{2}, Megan Ghaly{1}, Mohamed Abdelgawad{1}	{1}American University of Sharjah, U.A.E.; {2}Egypt-Japan University of Science and Technology, Egypt
7141	Degradable Piezoelectric Energy Harvesters Based on Natural Cellulose NANOFIBRILS	3P3: Poster 3	11	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 3	Hangyu Qian, Yanyuan Ba, Xiao-Sheng Zhang	University of Electronic Science and Technology of China, China
7159	Development of a Microfluidic Device for Cell Spheroid Filtration and Isolation	3P3: Poster 3	12	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 3	Chia-Yu Liu{3}, Yu-Chia Su{1}, Chi-Kuang Leo Wang{1}, Hsian-Jean Chin{1}, Yu-Hsiang Hsu{2}	{1}National Laboratory Animal Center, Taiwan; {2}National Taiwan University, Taiwan; {3}National Taiwan University, NTU Nano-BioMEMS Group, Taiwan
7175	Nonlinear Ion Transport Within sub-1nm Radii Carbon Nanotubes	3P3: Poster 3	13	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 3	Zhenyu Wei, Yunfei Chen, Yan Zhang	Southeast University, China
7208	Chain Pump for Micro Fluidic Applications	3P3: Poster 3	14	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 3	Andreas Loth, Ralf Förster	Berliner Hochschule für Technik, Germany
7210	Ultrasound Frequency-Shift Keying by AIScN PMUT via DC Bias Modulation	3P3: Poster 3	15	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 3	Junxiang Cai, Tao Wu	ShanghaiTech University, China
7214	Glucose Biosensors Based on Amorphous Kenaf Cellulose Nanofibers	3P3: Poster 3	16	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 3	Thi Kim Tuoi Truong	Tohoku University, Japan
7030	Silicon-Based MEMS Inertial Device Stability Analysis	3P3: Poster 3	17	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 3	Mo Yang, Weirong Nie, Yun Cao, He Wang, Jiali Wang, Jiong Wang	Nanjing University of Science and Technology, China
7205	Shape Memory Polymer Assisted Transfer Printing of Large-Area Metal Thin Film	3P3: Poster 3	18	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 3	Yawen Gan, Kaiqi Chen, Jingyang Zhang, Qinhua Guo, Yunda Wang	Hong Kong University of Science and Technology, China
7248	A Medical Pressure Sensor for Multi-Pressure Mode and Multi-Media Measurement	3P3: Poster 3	19	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 3	Hongyuan Fu, Jianrong Wang, Yubo Fan, Xing Chen	Beihang University, China

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7277	Generation of Curcumin Loaded Aerosols for Inhalation Therapy via Ion Wind Induced ELECTROHYDRODYNAMIC	3P3: Poster 3	20	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 3	Trung-Hieu Vu{1}, Hoai-Duc Vu{1}, Thi Van Anh Hoang{4}, Tien Dung Nguyen{1}, Luan Mai{2}, Dang D.H. Tran{3}, Tuan-Hung Nguyen{3}, Dzung Viet Dao{3}, Van Thanh Dau{1}	{1}Griffith University, Australia; {2}Ho Chi Minh City University of Technology, Vietnam; {3}Queensland Micro- and Nanotechnology Centre, Griffith University, Australia; {4}University of Ulsan, Korea
7041	Modeling and Experimental Verification of Coupled Beam Arrays for Mass Sensing	3P3: Poster 3	21	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 3	Mehdi Ghommem{1}, Fehmi Najar{2}, Toky Rabenimanana{3}, Vincent Walter{3}, Najib Kacem{3}	{1}American University of Sharjah, U.A.E.; {2}Prince Sattam bin Abdulaziz University, Saudi Arabia; {3}University of Franche-Comté, France
7039	P(VDF-TrFE) Piezoelectric Film - Based Wearable Sensors for Force Monitoring	3P4: Poster 4	1	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 4	Ji-Lan Liu, Ching-Te Kuo	National Sun Yat-sen University, Taiwan
7050	THREE-Dimensional Electroless Dielectrophoresis Chip for Rapid Enrichment of Biomarkers in Plasma	3P4: Poster 4	2	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 4	Wei-Chen Xu{1}, Jun-Yan Lu{1}, Chung-Yu Chen{2}, Ju-Nan Kuo{1}	{1}National Formosa University, Taiwan; {2}National Taiwan University Hospital, Taiwan
7059	Poisson Statistical Method to Quantify the Specific Binding Force Between S Spike Protein and ACE2	3P4: Poster 4	3	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 4	Shuai Yuan, Zebin Wang	Shenyang Jianzhu University, China
7068	Reliability of Gold Wire Leads for MEMS Gyroscopes Under a Thermo-Mechanical Coupling Field	3P4: Poster 4	4	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 4	Yingyu Xu{3}, Chunhua He{2}, Qinwen Huang{1}, Guizhen Yan{4}	{1}CEPREI, China; {2}Guangdong University of Technology, China; {3}Guangdong University of Technology, CEPREI, China; {4}Peking University, China
7088	The Anodic Aluminum Oxide Templates and Etching-Based Rapid Thermal Annealing for Fabricating Localized Surface Plasmon Resonance Sensors Integrating Micro-Channel for C-Reactive Protein Detection	3P4: Poster 4	5	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 4	Kuan-Chun Yeh, Hsiang-Yu Wang, Nien-Tsu Huang	National Taiwan University, Taiwan
7106	Investigate the Role of Ventilation Parameter Settings in Regulating Lung Function	3P4: Poster 4	6	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 4	Hsuan Lin{5}, Hsih-Shin Wang{2}, Ping-Liang Ko{3}, Dao-Ming Chang{1}, Wei-Hao Liao{1}, Chien-Chung Peng{1}, Jean Lu{1}, Po-Nien Tsao{4}, Yi-Chung Tung{1}	{1}Academia Sinica, Taiwan; {2}Far Eastern Memorial Hospital, Taiwan; {3}National Taiwan University, Taiwan; {4}National Taiwan University Hospital, Taiwan; {5}Research Center for Applied Sciences, Academia Sinica, Taiwan
7136	Single-Tube, Single-Strip Lateral Flow Assays Utilizing Loop-Mediated Isothermal Amplification for Simultaneous Hepatitis B and C Virus Detection	3P4: Poster 4	7	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 4	Jing-Wen Guo, Hsin-Ying Ho, Ling-Shan Yu	National Sun Yat-sen University, Taiwan
7194	Printed Organic Microelectrode Arrays Using Carbon Nanotube/Paraffin Composites for Neural Activity Measurement	3P4: Poster 4	8	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 4	Tatsuya Murakami, Naoki Yada, Shotaro Yoshida	Chuo University, Japan
7336	Enzymatic Nanorobots for Combination Chemotherapy of Glioblastoma	3P4: Poster 4	9	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 4	Junfeng Wu, Niandong Jiao, Xingyue Hu, Lianqing Liu	Shenyang Institute of Automation, Chinese Academy of Sciences, China
7342	Reconfigurable Coacervate Liquid Microrobots	3P4: Poster 4	10	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 4	Kailang Liu, Haochen Ran, Cheng Qi, Zhou Liu, Tiantian Kong	Shenzhen University, China
7349	Development of a Thin Reagent pre-Storage Cartridge for Molecular Detection	3P4: Poster 4	11	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 4	Cheng-Je Lee, Yu-Hsiang Hsu, Andrew Wo	National Taiwan University, Taiwan
7350	Skin-Like Tactile Sensing Array Based on Triboelectricity	3P4: Poster 4	12	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 4	Wenjun Wang, Junfeng Zhong, Limin Zheng, Bo Meng	Shenzhen University, China
7351	Three-Dimensional Tissular Morphology and Two-Dimensional Cellular Characteristics for the Snapping Mechanism of the Venus Flytrap	3P4: Poster 4	13	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 4	Xiangli Zeng, Keisuke Morishima	Osaka University, Japan
7352	Design of Novel Photonic Sensor with Dual PLASMONIC Layers for Multiple ANALYTE Detection Based on EMD	3P4: Poster 4	14	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 4	Pratima Malhotra, Surinder Singh	Sant Longowal Institute of Engineering and Technology, India

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7353	Geometry Impact in Flexible microheaters and the Use of Novel Temperature Sensors	3P4: Poster 4	15	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 4	Maider Calderon-Gonzalez{1}, Suparna Mondal{1}, David Cheyns{1}, Rob Ameloot{2}, Jan Genoe{1}	{1}imec, Belgium; {2}Katholieke Universiteit Leuven, Belgium
7355	Vascularization of a COLLAGEN-Containing TRI-Culture Liver Spheroid in a Microfluidic Device	3P4: Poster 4	16	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 4	Satomi Matsumoto{1}, Sun Yixin{1}, Jo Sugawa{1}, Anna Kopec{2}, Julie Harney{2}, Lindsay Tomlinson{2}, Nasir Khan{2}, Kazuya Fujimoto{1}, Ryuji Yokokawa{1}	{1}Kyoto University, Japan; {2}Pfizer, Inc., United States
7359	Investigating the Impact of Nano- and Microscale Topography on Bacterial Adhesion in Rumen Liquid Environment	3P4: Poster 4	17	P	2024/5/3 16:20	2024/5/3 18:00	Poster Area 4	Yajun Hua, Michitaka Yamamoto, Toshihiro Itoh	University of Tokyo, China; University of Tokyo, Japan
7010	Noninvasive Fluid Flowrate Detection Using Capacitive Micromachined Ultrasonic Transducers	4D1: Solid state Micro/Nano Sensors and Actuators 1	1	L	2024/5/4 10:00	2024/5/4 12:00	Room D	Jiawei Yuan, Zixuan Li, Qi Ma, Shaohui Qin, Xuan Shi, Zheng Yuan, Yihe Zhao, Xiaozhang Wang, Zhikang Li, Libo Zhao	Xi'an Jiaotong University, China
7011	Noninvasive Flow Bubble Detection for Small Pipes Based on Piezoelectric Micromachined Ultrasonic Transducers	4D1: Solid state Micro/Nano Sensors and Actuators 1	2	L	2024/5/4 10:00	2024/5/4 12:00	Room D	Zixuan Li, Jiawei Yuan, Qi Ma, Shaohui Qin, Zheng Yuan, Yihe Zhao, Tong Wang, Xiaozhang Wang, Zhikang Li, Libo Zhao	Xi'an Jiaotong University, China
7080	Performance Optimization of Piezoelectric MEMS Speaker with Cantilever Diaphragm Array	4D1: Solid state Micro/Nano Sensors and Actuators 1	3	L	2024/5/4 10:00	2024/5/4 12:00	Room D	Yue Fei, Huimin Zhang, Zhourui Liu, Nan Zhang, Xiaofeng Zhou	East China Normal University, China
7083	Dielectric Losses During CBD of Silicon Nitride Nanopores	4D1: Solid state Micro/Nano Sensors and Actuators 1	4	L	2024/5/4 10:00	2024/5/4 12:00	Room D	Jun Yang{1}, Jingjie Sha{2}	{1}Mechanical Engineering of Southeast University, China; {2}Southeast University, China
7084	Ion Selective Membrane with Dual-Gate Ion-Sensitive Field-Effect Transistor Integrating the Microfluidic Channel for Heavy Metal Ions Test in Wastewater	4D1: Solid state Micro/Nano Sensors and Actuators 1	5	L	2024/5/4 10:00	2024/5/4 12:00	Room D	Tzu-Yu Liu, Nien-Tsu Huang	National Taiwan University, Taiwan
7093	Single-Molecule Detection Based on Graphene Cage-Like Nanopores	4D1: Solid state Micro/Nano Sensors and Actuators 1	6	L	2024/5/4 10:00	2024/5/4 12:00	Room D	Wei Xu, Gang Wang, Fangzhou Fu, Chaofan Ma, Jingjie Sha	Southeast University, China
7112	BLU-Ray Based Millimeter Range HIGH-Speed Atomic Force Microscope	4D1: Solid state Micro/Nano Sensors and Actuators 1	7	L	2024/5/4 10:00	2024/5/4 12:00	Room D	Edwin Hwu{2}, Jorge Pereda{2}, Jen-Hung Wang{2}, Hsien-Shun Liao{1}	{1}National Taiwan University, Taiwan; {2}Technical University of Denmark, Denmark
7133	Enhancing Lateral Photovoltage Through Light-Trapping 3C-SiC/Si Microstructures	4D2: Solid state Micro/Nano Sensors and Actuators 2	1	L	2024/5/4 13:00	2024/5/4 15:00	Room D	Tuan-Hung Nguyen{2}, Dang D.H. Tran{2}, Van Thanh Dau{1}, Dzung Viet Dao{2}	{1}Griffith University, Australia; {2}Queensland Micro- and Nanotechnology Centre, Griffith University, Australia
7177	Comparison of WS2 and MoS2 Nanopores for Identification of Different Proteins	4D2: Solid state Micro/Nano Sensors and Actuators 2	2	L	2024/5/4 13:00	2024/5/4 15:00	Room D	Wenhao Yang{2}, Wei Xu{2}, Lei Li{2}, Han Qi{1}, Yujuan Wang{2}, Kedong Bi{2}	{1}Nanjing Institute of Technology, China; {2}Southeast University, China
7198	A High-Aspect-Ratio Gold Nanoring Array Optical Resonator	4D2: Solid state Micro/Nano Sensors and Actuators 2	3	L	2024/5/4 13:00	2024/5/4 15:00	Room D	Mengcheng Wang, Dongyu Cui, Zhijuan Su, Faheng Zang	Shanghai Jiao Tong University, China
7216	Advancing Near-Infrared Photodetection and Spectroscopy Through Interlayer Schottky Plasmonic Photodetectors	4D2: Solid state Micro/Nano Sensors and Actuators 2	4	L	2024/5/4 13:00	2024/5/4 15:00	Room D	Eslam Abubakr{2}, Masaaki Oshita{2}, Shiro Saito{1}, Tetsuo Kan{2}	{1}IMRA Japan Co., Ltd., Japan; {2}University of Electro-Communications, Japan
7243	Nanoantenna-Enhanced Palladium Diselenide Mid-Infrared Photodetector	4D2: Solid state Micro/Nano Sensors and Actuators 2	5	L	2024/5/4 13:00	2024/5/4 15:00	Room D	Hongzhi Zhu, Xiaoxiao Han, Qian Huang, Qinghua Ren, Nan Wang, Yiming Ma	Shanghai University, China
7270	A phase-Change Micro Actuator Array Based on Paraffin Wax	4D2: Solid state Micro/Nano Sensors and Actuators 2	6	L	2024/5/4 13:00	2024/5/4 15:00	Room D	Jingzhe Cao, Xiayu Wang, Fade Hu, Chuan Luo	Tsinghua University, China

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7037	Detection of Low-Frequency Vibrations of Proteins Using Biological Nanopores	4E1: Biomicrosystems	1	L	2024/5/4 10:00	2024/5/4 12:00	Room E	Chaofan Ma, Wei Xu, Jingjie Sha	Southeast University, China
7169	A Novel Digital Magnetic Proximity Extension RPA-CRISPR/CAS12A-Assisted Immunoassay with ATTOMOLAR Sensitivity	4E1: Biomicrosystems	2	L	2024/5/4 10:00	2024/5/4 12:00	Room E	Fangchi Shao, Jiumei Hu, Kuangwen Hsieh, Pengfei Zhang, Pataraiarin Akarapipad, Joon Soo Park, Tza-Huei Wang	Johns Hopkins University, United States
7221	Titanium nitride-a plasmonic Bio-Compatible nanomaterial for Effective Intracellular Delivery	4E1: Biomicrosystems	3	L	2024/5/4 10:00	2024/5/4 12:00	Room E	Nandhini Balasubramaniam{4}, Moeto Nagai{3}, Amal Bera{1}, Tuhin Subhra Santra{1}, Srabani Kar{2}	{1}Indian Institute of Technology Madras, India; {2}Indian Institutes of Science Education and Research, India; {3}Toyohashi University of Technology, Japan; {4}Toyohashi University of Technology, Indian Institute of Technology Madras, Japan
7341	Oscillating - flow Rapid real-Time PCR Microfluidic	4E1: Biomicrosystems	4	L	2024/5/4 10:00	2024/5/4 12:00	Room E	Chia-Tse Hung, Wei Chang, Chiuan-Chian Chiou, Yen-Heng Lin	Chang Gung University, Taiwan
7358	Constructing a Bladder-on-a-Chip Demonstrating Stratification and Umbrella Cell Expression Through Fibroblast Coculture	4E1: Biomicrosystems	5	L	2024/5/4 10:00	2024/5/4 12:00	Room E	Taiki Nishimura{2}, Yuji Takata{2}, Kazuhiro Ofuji{1}, Kazuya Fujimoto{2}, Ryuji Yokokawa{2}	{1}Center for Biosystems Dynamics Research, RIKEN, Japan; {2}Kyoto University, Japan
7357	Development of an ON-Chip Pancreatic Ductal Adenocarcinoma Model with a Vascularized Microenvironment	4E1: Biomicrosystems	6	L	2024/5/4 10:00	2024/5/4 12:00	Room E	Shota Koishi{2}, Hang Zhou{2}, Kazuya Fujimoto{2}, Mayu Shibuta{1}, Ichiji Namatame{1}, Kazuhiro Tetsuka{1}, Ryuji Yokokawa{2}	{1}Astellas Pharma Inc., Japan; {2}Kyoto University, Japan
7281	Enhanced Glomerular Filtration and Podocyte Expression in Human iPSC-Derived On-Chip Glomerular Barriers with Spontaneous GBM Formation	4E1: Biomicrosystems	7	L	2024/5/4 10:00	2024/5/4 12:00	Room E	Ayumu Tabuchi{1}, Darryl Koh{1}, Kensuke Yabuuchi{2}, Yoshiki Sahara{2}, Minoru Takasato{2}, Kazuya Fujimoto{1}, Ryuji Yokokawa{1}	{1}Kyoto University, Japan; {2}RIKEN, Japan
7257	Numerical Modeling and Morphological Analysis of Vascular Bed Formation Toward Vascularized MPS Engineering	4E1: Biomicrosystems	8	L	2024/5/4 10:00	2024/5/4 12:00	Room E	Kazuya Fujimoto, Yoshikazu Kameda, Ryuji Yokokawa	Kyoto University, Japan
7174	Development of a Immunosensing smartphone Platform for Determination of Skin interleukin-1 β	4E2: Biosensors	1	L	2024/5/4 13:00	2024/5/4 15:00	Room E	Mao Naito, Hiroyuki Kudo, Miku Sarubo, Yuka Numazaki	Meiji University, Japan
7074	Aptamer-functionalized Extended Gate Field-Effect Transistor (EGFET) Integrating Whole-Blood Processing Microfluidics for Troponin I Detection	4E2: Biosensors	2	L	2024/5/4 13:00	2024/5/4 15:00	Room E	Syuan-Rong Huang, Nien-Tsu Huang	National Taiwan University, Taiwan
7090	A Microfluidic Platform Integrating Electrochemical Sensors for on-Chip Whole Blood Processing and in-situ Dual Cardiac Vascular Disease Biomarker Detection	4E2: Biosensors	3	L	2024/5/4 13:00	2024/5/4 15:00	Room E	Yen-An Chen, Nien-Tsu Huang	National Taiwan University, Taiwan
7154	Integrated Magneto-Electrochemical Sensing Arrays for Multi-Parametric Screening of Alzheimer's Disease Related Biomarkers	4E2: Biosensors	4	L	2024/5/4 13:00	2024/5/4 15:00	Room E	Jieyu Wang{1}, Jianan Hui{2}, Pengcheng Zhao{1}, Bo Lin{2}, Huiying Liu{1}, Guowu Ma{1}, Hongju Mao{2}	{1}Dalian Medical University, China; {2}Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences, China
7179	Development of Wearable Multi-Analyte Sweat Monitor	4E2: Biosensors	5	L	2024/5/4 13:00	2024/5/4 15:00	Room E	Ryoka Kaino, Shotaro Kawana, Yuki Akaba, Shoto Nakatsuka, Mikio Yamada, Kazuki Horie, Hiroyuki Kudo	Meiji University, Japan
7251	Evaluation of a Single DNA Oligomer Measurements by SURFACE-Enhanced RAMAN Spectroscopy	4E2: Biosensors	6	L	2024/5/4 13:00	2024/5/4 15:00	Room E	Tomoya Shinabe, Yuga Nakamura, Tomoya Nakanishi, Akio Uesugi, Koji Sugano, Yoshitada Isono	Kobe University, Japan

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7167	A Highly Sensitive Fluorometric Acetaldehyde Biosensor by Using Enzymatic Recycling Reactions for Signal Amplification	4E2: Biosensors	7	L	2024/5/4 13:00	2024/5/4 15:00	Room E	Kenta Iitani{2}, Yuki Maeno{2}, Geng Zhang{2}, Koji Toma{1}, Takahiro Arakawa{3}, Kohji Mitsubayashi{2}	{1}Shibaura Institute of Technology, Japan; {2}Tokyo Medical and Dental University, Japan; {3}Tokyo University of Technology, Japan
7065	Generation of Airborne Particles Toward Inhalation Drug Delivery via Electro-Neutralization Electrospray	4P1: Poster 5	1	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 1	Hoai-Duc Vu{1}, Tien Dung Nguyen{1}, Trung-Hieu Vu{1}, Thi Van Anh Hoang{4}, Luan Mai{2}, Dang D.H. Tran{3}, Tuan-Hung Nguyen{3}, Dzung Viet Dao{3}, Yong Zhu{1}, Van Thanh Dau{1}	{1}Griffith University, Australia; {2}Ho Chi Minh City University of Technology, Vietnam; {3}Queensland Micro- and Nanotechnology Centre, Griffith University, Australia; {4}University of Ulsan, Korea
7107	Light-Induced Phase Transition and photodetection Application of Nanotube Encapsulated TaS2 nanoribbon NEMS Device	4P1: Poster 5	2	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 1	Linlin Hou, Hu Long, Tielin Shi	Huazhong University of Science and Technology, China
7125	Studying Sprouting Angiogenesis of Endothelial Cells Under Oxygen Gradients and Inhibition of Hypoxia Induced Factor (HIF) Using Microfluidic Devices	4P1: Poster 5	3	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 1	Hsiu-Chen Shih, Wei-Hao Liao, Yi-Chung Tung	Academia Sinica, Taiwan
7139	Integration of Free Flow Electrophoresis and Surface-Enhanced Raman Scattering for Multiplex Biomolecule Analysis	4P1: Poster 5	4	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 1	Ming-Chun Lin, Nien-Tsu Huang	National Taiwan University, Taiwan
7140	Time-Domain Integrated-Circuit-Based Biosensors on an Integrated Microfluidic System for Detecting Cardiovascular Biomarkers	4P1: Poster 5	5	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 1	Sasi Kiran Boilla{2}, Pei-Rong Li{2}, Pei-Chien Lin{1}, Tsung-Heng Tsai{3}, Gwo-Bin Lee{2}	{1}National Chung Cheng University, Taiwan; {2}National Tsing Hua University, Taiwan; {3}National Yang Ming Chiao Tung University, Taiwan
7160	Effect of Shear Stress on Cellular Uptake of Estrone Liposomes for Breast Cancer Therapy	4P1: Poster 5	6	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 1	Rouba Al-Bostami, Ghaleb Hussein, Mohamed Abdelgawad	American University of Sharjah, U.A.E.
7180	Graphene-Modified Ru-Based Infrared Detector Array for Human Identification	4P1: Poster 5	7	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 1	Yufei Zhai, Song Li, Yuxuan Dong, Min Wang	Southern University of Science and Technology, China
7189	Delivery of Large Cargo in Mammalian Cells Enhanced by Infrared Light Pulse-Activated Micro-Ring Device	4P1: Poster 5	8	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 1	Ashwini Shinde{1}, Pallavi Shinde{1}, Moeto Nagai{3}, Tuhin Subhra Santra{1}, Srabani Kar{2}	{1}Indian Institute of Technology Madras, India; {2}Indian Institutes of Science Education and Research, India; {3}Toyohashi University of Technology, Japan
7211	Magnetic Resonance Sensor for Atmospheric Free Radical Detection	4P1: Poster 5	9	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 1	Naoki Hirokawa, Takahito Ono, Masaya Toda	Tohoku University, Japan
7215	Off-Stoichiometry Thiol-Ene (OSTE) Hollow Microneedle Array for Liquid Collection and Delivery	4P1: Poster 5	10	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 1	Yeqian Liu{2}, Haonan Li{2}, Zitao Feng{2}, Zejingqiu Chen{2}, Muyang Zhang{2}, Jie Zhou{2}, Qinghao He{2}, Huiru Zhang{1}, Tao Jiang{1}, Weijin Guo{2}	{1}Guangdong Foshan Lianchuang Graduate School of Engineering, China; {2}Shantou University, China
7222	HZO and MoS2-Based large-Scale ferroelectric-FET for next-Generation non-Volatile Memory	4P1: Poster 5	11	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 1	Jeewan Lee{1}, Nguten Minh Chien{2}, Woo Jong Yu{2}	{1}Samsung Electronics, Sungkyunkwan University, Korea; {2}Sungkyunkwan University, Korea
7230	Cell Morphological Control and Differentiation Induction by Hydrogel Patterning Technique	4P1: Poster 5	12	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 1	Yuta Nakashima, Haruhiko Takemoto, Yoichi Saito, Yoshitaka Nakanishi	Kumamoto University, Japan
7238	Seebeck Coefficient of the Chlorosulfonic Acid Doped Carbon Nanotube Fiber with Two Junctions	4P1: Poster 5	13	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 1	Guanyu Zhu{2}, Junki Sakamoto{2}, Ahmed Zubair{1}, Tadao Matsunaga{2}, Sang-Seok Lee{2}	{1}Bangladesh University of Engineering and Technology, Bangladesh; {2}Tottori University, Japan
7249	Reciprocating Arc Design to Improve Sensitivity of Silicon Strain Gauges	4P1: Poster 5	14	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 1	Ji-Hoon Han{1}, Eun Sang Lee{1}, Nam Ki Min{2}	{1}Inha University, Korea; {2}Korea University, Korea

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7254	Stent-Based Wireless Glucose Monitoring System	4P1: Poster 5	15	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 1	Zhixiong Zhao{1}, Huaxuan Cai{1}, Haiyang Wang{1}, Liu Wang{1}, Jinda Wang{3}, Xiangyu Cao{2}, Xing Chen{1}	{1}Beihang University, China; {2}Chinese People's Liberation Army General Hospital, China; {3}Sixth Medical Center of PLA General Hospital, China
7272	Prussian Blue Nanocube Clusters for Pulsed Laser Optoporation of Cells	4P1: Poster 5	16	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 1	Aniket Mishra, Shalini Nagabhooshnam, Shunya Okamoto, Takayuki Shibata, Moeto Nagai	Toyohashi University of Technology, Japan
7032	Electro-Deformation Spectroscopy of Biological Cells	4P2: Poster 6	1	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 2	E Du, Hongyuan Xu, Jianning Wei	Florida Atlantic University, United States
7054	An Eight-Mass MEMS Gyro with Area-Variable Comb Capacitance	4P2: Poster 6	2	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 2	Bo Jiang, Juan Jiao, Yixuan Li, Zhenjun Wang, Yan Su	Nanjing University of Science and Technology, China
7066	ITO Thin Film Resistance Temperature Detector with Al/Al2O3 Protective Coating for High-Temperature Application	4P2: Poster 6	3	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 2	Tao Zhang, Peng Pang, Yunzhe Liu, Jian Luo, Jinjun Deng, Xingxu Zhang, Binghe Ma	Northwestern Polytechnical University, China
7077	3D Microstructure Dynamic Reconstruction by MEMS Mirror Integrated Laser Differential Confocal Microscopy	4P2: Poster 6	4	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 2	Qingjiu Chen, Donghai Yang, Wen Jung Li	City University of Hong Kong, Hong Kong
7089	Studying Stiffness of Lung Connective Tissue Under Different Oxygen Levels and Gradient in VITRO	4P2: Poster 6	5	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 2	Heng Hua Hsu	Research Center for Applied Sciences, Academia Sinica, Taiwan
7110	Active Learning Enhanced Deep-Learning Surrogate Model for Fast MEMS Design with High-Dimensional Design Parameter Spaces	4P2: Poster 6	6	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 2	Chenzi Wang{2}, Lihong Feng{1}, Wenshuai Lu{2}, Wei Bian{2}, Zheng You{2}, Peter Benner{1}	{1}Max Planck Institute for Dynamics of Complex Technical Systems, Germany; {2}Tsinghua University, China
7132	Triboelectric nanogenerator Employing ion-Doped Natural nanofibrils with a single-Layer Design	4P2: Poster 6	7	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 2	Xu Zeng, Yan-Yuan Ba, Xin-Ran Zhang, Yi-Lin Wang, Peng Huang, Hangyu Qian, Hao Zheng, Xiao-Sheng Zhang	University of Electronic Science and Technology of China, China
7157	Enhancing the Photo-Electric Conversion Efficiency of Heterojunction by Ultra-Thin Amorphous Buffer Layer	4P2: Poster 6	8	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 2	Zih-Fei Chen{1}, Po-Hsien Tseng{2}, Cheng-Ming Huang{3}, Yu-Sheng Lai{3}, Meng-Hsueh Chiang{1}	{1}National Cheng Kung University, Taiwan; {2}National Yang Ming Chiao Tung University, Taiwan; {3}Taiwan Semiconductor Research Institute, Taiwan
7161	DFT Based Analysis of Boron and Nitrogen Passivation at the Edge of Armchair Graphene Nanoribbon for Low Power Applications	4P2: Poster 6	9	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 2	Anshul Anshul, Rishu Chaujar	Delhi Technological University, India
7191	High-Performance N77 Band Filters on Sapphire-Based Heterogenous Substrates	4P2: Poster 6	10	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 2	Xuedi Tian{2}, Jinbo Wu{1}, Xiaoli Fang{1}, Juxing He{1}, Tiangui You{1}, Yi Yang{2}, Shibin Zhang{1}, Xin Ou{1}	{1}Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences, China; {2}University of Shanghai for Science and Technology, China
7217	Molecular Dynamics and Artificial Neural Network Crossover Study of N-DLC Film Growth and Properties	4P2: Poster 6	11	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 2	Guangyu Du, Zhanyang Shi, Linna Cai, Zhili Chen, Kun Liu, Xiaodong Wang	Northeastern University, China
7225	Fabrication of Vertical Oxide Thin Film Transistors Using Electrodeposited Copper Oxide Channels	4P2: Poster 6	12	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 2	Hyun-Joon Ryu, Dong Su Kim, Dong-Wook Kim, Hyungkoun Cho	Sungkyunkwan University, Korea
7242	Comparative Study of the Ar and He Sputtering in Atomic Layer Etching Processes for Silicon	4P2: Poster 6	13	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 2	Namgun Kim{2}, Whan Kyun Kim{2}, Jong Kyu Kim{1}, Chan Min Lee{1}, Kuk Han Yoon{1}, Heeyeop Chae{2}	{1}Samsung Electronics, Korea; {2}Sungkyunkwan University, Korea
7256	Micro Fuel Cells with Ceramic Flow Fields for Application in e-Bikes	4P2: Poster 6	14	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 2	Ralf Färster, Andreas Loth, Salmen Behi, Annette Jühr	Berliner Hochschule für Technik, Germany
7268	Cell Encapsulation Within Hydrogel Using LCD 3D Printer for Single-Cell Screening	4P2: Poster 6	15	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 2	Venkatesh Kumar Panneer Selvam, Shunya Okamoto, Takayuki Shibata, Moeto Nagai	Toyohashi University of Technology, Japan

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7236	A Highly Sensitive Resonant Mass Sensor Enabled by Mode-Localized Sensing and Parametric Pump	4P2: Poster 6	16	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 2	Chengqi Lin{1}, Jianlin Chen{1}, Yuan Wang{2}, Qinghua Ren{1}, Yiming Ma{1}, Nan Wang{1}	{1}Shanghai University, China; {2}University of Macau, China
7013	A Novel Capacitive Pressure Sensor Using a Spiral Comb Electrode Structure	4P3: Poster 7	1	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 3	Qi Liu, Cao Xia, Yuanlin Xia, Zhuqing Wang	Sichuan University, China
7031	A Novel Method for Co-Rich Amorphous Alloy Wire Electrical Interconnection by Using PI Film as Solder Mask	4P3: Poster 7	2	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 3	Chuan Chen{1}, Yan Wang{1}, Bo Zhang{2}, Yadong Wan{2}, Chao Zhang{2}, Jianhua Li{2}	{1}State Grid Smart Grid Research Institute co.,Ltd, China; {2}University of Science and Technology Beijing, China
7052	Diameter Optimization of PVAc and TiO2 Nanofibers Using Surface Response Method	4P3: Poster 7	3	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 3	Qianguo Yu, Ziliang Yang, Zhaobang An, Zhuoliang Zan, Yujuan Wang, Kedong Bi	Southeast University, China
7086	Numerical Study of Conical Jet Formation Mechanism in Electro spray Microfluidic Chip	4P3: Poster 7	4	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 3	Yue Jiang, Yian Yan, Ming Hao, Shulei Chen, Guipeng Wang, Yuanhua Xie, Dechun Ba, Kun Liu	Northeastern University, China
7098	A Transformable Kirigami metamaterials Platform for Reconfigurable Electromagnetic Induced Transparent Electromagnetic metamaterial	4P3: Poster 7	5	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 3	Yuxin Liu, Yu-Sheng Lin	Sun Yat-sen University, China
7103	Design and Manufacture of a MEMS Capacitive Differential Pressure Sensor with High Linearity and Low Sensitivity	4P3: Poster 7	6	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 3	Di An, Haiwang Li, Xiaoda Cao, Yanxin Zhai, Tiantong Xu	Research Institute of Aero-Engine, Beihang University, China
7108	Humidity-Resistant Gas Sensor Based on Thin-Layer h-BN Encapsulated Graphene Heterojunction	4P3: Poster 7	7	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 3	Zhizhi Wang, Bowen Tang, Tielin Shi, Hu Long	Huazhong University of Science and Technology, China
7111	Characterization of Contamination Degradation of MEMS Accelerometer Comb Structures	4P3: Poster 7	8	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 3	Jinchuan Chen{5}, Xiao Wen{5}, Yingyu Xu{3}, Qinwen Huang{1}, Wanchun Ren{4}, Chunhua He{2}	{1}CEPREI, China; {2}Guangdong University of Technology, China; {3}Guangdong University of Technology, CEPREI, China; {4}Southwest University of Science and Technology, China; {5}Southwest University of Science and Technology, CEPREI, China
7113	Influence on Contact Resistance and Other Electrical Properties of Graphene on Silicon Dioxide Periodic Grating	4P3: Poster 7	9	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 3	Wei-Yu Long, Po-Han Shia, Yu-Xuan Lu, Fang-Min Lin, Chih-Ting Lin	National Taiwan University, Taiwan
7150	A PIEZOELECTRIC-YARN-Based Muscle Patch Sensor for the Application of Gait Analysis	4P3: Poster 7	10	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 3	Liang-Yu Hsu, Guo-Ren Chu, Yu-Hsiang Hsu	National Taiwan University, Taiwan
7151	The Suppression of Transverse Modes in POI SAW Resonator with Groove Configuration	4P3: Poster 7	11	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 3	Menghui Li, Mengke Qi, Yuanhang Chen, Yimin Cheng, Liang Cao, Xiaojing Mu	Chongqing University, China
7195	An Asymmetrical 3D Subwavelength Metasurface with Tunable Morphology for Refractive Index Sensing	4P3: Poster 7	12	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 3	Dongyu Cui, Mengcheng Wang, Zhijuan Su, Faheng Zang	Shanghai Jiao Tong University, China
7199	The Resistive Switching Properties of SrTiO3 Fabricated Through the RF Magnetron Sputtering Process	4P3: Poster 7	13	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 3	Min-Chen Cai, Yu-Ting Liu, Che-Hao Liao, Shih-Hung Lin	National Yunlin University of Science and Technology, Taiwan
7201	A Study on Driving Experiments for Leg of Insect-Type Microrobot Using Rotary-Type Electrostatic Motor	4P3: Poster 7	14	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 3	Shuxin Lyu, Yudai Tominaga, Yuya Tamaki, Daichi Kiya, Katsuyuki Morishita, Ken Saito	Nihon University, Japan
7227	Impact of AlScN Gate Dielectric on Electrical Properties of AlScN/AlGaIn/GaN Ferroelectric HEMTs	4P3: Poster 7	15	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 3	Yuxi Liu, Zexin Ding, Guoming Zhang, Qingnan Qian, Qunhui Zhou, Yiming Ma, Nan Wang, Qinghua Ren	Shanghai University, China
7235	Mid-Infrared Plasmonically Enhanced Waveguide-Integrated PdSe2 Zero-Bias Photodetector	4P3: Poster 7	16	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 3	Xiaoxiao Han, Hongzhi Zhu, Qian Huang, Qinghua Ren, Nan Wang, Yiming Ma	Shanghai University, China

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7237	A Mode Matched Tuning Fork Gyroscope Using ScAlN-Based Piezoelectric Driving and Sensing	4P3: Poster 7	17	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 3	Mei Wang, Jianlin Chen, Qinghua Ren, Yiming Ma, Nan Wang	Shanghai University, China
7263	A novel 3D Boron-Doped Diamond Electrode for Improved Electrochemiluminescence Magneto immunassay	4P3: Poster 7	18	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 3	Jiamei Li, Yun Hui	Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, China
7275	Deposition of Sr-Doped Hydroxyapatite by Magnetron Sputtering on 3D-Printed Titanium-Alloy Applied for Biomedical Implants	4P3: Poster 7	19	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 3	Chun-Ming Chang{2}, Sin-Liang Ou{1}, Bo-Yan Zhang{1}, Jane-Yii Wu{1}, Shi-Hua Deng{1}, Yi-Zhen Zhang{1}	{1}Da-Yeh University, Taiwan; {2}Taiwan Instrument Research Institute, National Applied Research Laboratories, Taiwan
7060	Enhancement of Two-Photon Fluorescence Microscopy Through Auxiliary Microspheres for Microscopic Observation	4P4: Poster 8	1	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 4	Feng Zhang{2}, Zijian Jin{2}, Chaodi Jiang{2}, Shuai Yuan{2}, Xiaoduo Wang{1}	{1}Shenyang Institute of Automation, Chinese Academy of Sciences, China; {2}Shenyang Jianzhu University, China
7085	Properties of multi-Electrodes and Rarefied Gas Collisions Influencing Ion Mobility on a Miniaturized Ion Source Chip	4P4: Poster 8	2	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 4	Ming Hao{1}, Yue Jiang{1}, Shulei Chen{1}, Guipeng Wang{1}, Rui Jiang{1}, Yaoshuai Ba{1}, Dechun Ba{1}, Zhengwei Chen{2}, Kun Liu{1}	{1}Northeastern University, China; {2}Poiseuille Vacuum Technology (Shenyang) Co., Ltd., China
7162	Impact of LCAO-DFT Analysed Si-HfO2 on GS-NCFET with its Digital Application	4P4: Poster 8	3	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 4	Rashi Mann, Rishu Chaujar	Delhi Technological University, India
7172	An Off-Stoichiometry Thiol-Ene (OSTE) Microfluidic Chip for Storage of Nanoliter Liquid Sample	4P4: Poster 8	4	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 4	Zitao Feng, Guang Chen, Zejingqiu Chen, Ke Ni, Jiaying Yang, Haonan Li, Muyang Zhang, Qinghao He, Jie Zhou, Weijin Guo	Shantou University, China
7276	Fabrication of Acetone Gas Sensor Based on MoS2/PtS2 Van der Waals Heterobilayer	4P4: Poster 8	5	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 4	Sin-Liang Ou{1}, Chuan-Yi Lin{2}, Yan-Si Jiang{1}, Yi-Zhen Zhang{1}, Shi-Hua Deng{1}	{1}Da-Yeh University, Taiwan; {2}Taiwan Instrument Research Institute, National Applied Research Laboratories, Taiwan
7279	WS2 Monolayer with High-Quality and Large-Area Prepared by a Novel Process for Gas Sensor Applications	4P4: Poster 8	6	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 4	Ming-Hua Shiao{2}, Chun-Ming Chang{2}, Sin-Liang Ou{1}, Xiang-Bin Yang{1}, Yi-Chen Hsiao{1}	{1}Da-Yeh University, Taiwan; {2}Taiwan Instrument Research Institute, National Applied Research Laboratories, Taiwan
7344	Polymer-Based Wafer-Level Warpage Prediction and Regulation for the Advanced Packaging	4P4: Poster 8	7	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 4	Lang Chen{1}, Peijue Lyu{2}, Qi Wang{2}, Yufeng Jin{2}, Chi Zhang{1}, Wei Wang{1}	{1}Peking University, China; {2}Peking University Shenzhen Graduate School, China
7347	Research on the Two-Dimensional Polynomial Fitting Method of Piezoresistive Differential Pressure Transducer	4P4: Poster 8	8	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 4	Yang Yang{3}, Yuan Wang{4}, Guangyi Shi{1}, Yufeng Jin{2}	{1}Peking University, China; {2}Peking University Shenzhen Graduate School, China; {3}Shenzhen Graduate School of Peking University, China; {4}University of Electronic Science and Technology of China, China
7348	Generation of a Broad Optical Frequency Comb by Multiple RF Signals	4P4: Poster 8	9	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 4	Nisha Sharma, Surinder Singh, Vishal Sharma	Sant Longowal Institute of Engineering and Technology, India
7366	Covalent Fabrication and Conductometric Transduction of Robust Thin Films of Integrated Polyaniline and Polypyrrole Patterns Defined by Selective Soft Lithography on Polydimethylsiloxane Substrates fo	4P4: Poster 8	10	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 4	Yu-Chieh Shih{2}, Sin-Yun Jheng{2}, Tzu-Hsiang Lin{2}, Tsan-Feng Lu{2}, Yu-Tun Chao{2}, Chih-Chieh Fan{2}, Hui-Shan Tsai{2}, Kuan-Hsun Li{2}, Li-Hung Liu{2}, Leu-Wei Lo{1}, Hui-Yu Tsai{2}, Ming-Wei Lin{2}, Pen-Cheng Wang{2}	{1}National Health Research Institutes, Taiwan; {2}National Tsing Hua University, Taiwan

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7369	Surface Roughness Measurement of Functionalized CVD Graphene and Hexagonal Boron Nitride Heterostructures Using Atomic Force Microscopy	4P4: Poster 8	11	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 4	Evans Addo-Mensah, Ashby Philip John, Katlin Reynolds, Fernando Maia de Oliveira, Hugh Churchill, Uchechukwu Wejinya	University of Arkansas, United States
7362	Jellyfish-Inspired Hydrogel Microneedle Robots for Precision Medication Delivery Within the Gastrointestinal Tract	4P4: Poster 8	12	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 4	Zhou Liu, Lang Chu, Lei Chi, Tiantian Kong	Shenzhen University, China
7364	Advancing Cationic Biopolymer Nanospheres for Endothelial Barrier Transport	4P4: Poster 8	13	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 4	Chao Lu, Jin Zhang	Western University, Canada
7367	Stiffness Haptic Display Based on Magneto-Rheological Elastomer	4P4: Poster 8	14	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 4	Seok-Han Lee, Sang-Youn Kim	Interaction Laboratory, Future Convergence Engineering, Korea University of Technology and Education, Korea
7360	DNA Circuit Based Amplification and Detection of MicroRNA Through a Time Encoded Silicon Nanowire Field Effect Transistor Readout	4P4: Poster 8	15	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 4	Gurpreet Kaur{2}, Marcel Tintelott{3}, Antoine Masurier{1}, Guillaume Gines{1}, Yannick Rondelez{1}, Sven Ingebrandt{3}, Yannick Coffinier{2}, Vivek Pachauri{3}, Alexis Vlandas{2}	{1}Gulliver, ESPCI Paris, France; {2}IEMN/CNRS, France; {3}RWTH Aachen University, Germany
7361	Ionic Nanofluidic Device Emulate Inhibitory Synaptic Behavior with Amino Material	4P4: Poster 8	16	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 4	Peiyue Li, Pan Zhang, Yechang Guo, Shaofeng Wang, Wei Wang	Peking University, China
7371	Ti3C2TX MXENE Modified Flexible Carbon Cloth Electrode For Highly Sensitive Detection Of Neurotransmitter Dopamine	4P4: Poster 8	17	P	2024/5/4 15:00	2024/5/4 16:20	Poster Area 4	Ganesh Pattan-Siddappa, Seok-Han Lee, Sang-Youn Kim	Korea University of Technology and Education, Korea
7042	Temperature Control for MEMS Gyroscope with Thermoelectric Cooler	5C1: M/NEMS	1	L	2024/5/5 10:05	2024/5/5 12:20	Room C	Zhenjun Wang, Yanjun Yue, Yi Zhou, Chaorong Ke, Bo Jiang, Tong Zhou, Yan Su	Nanjing University of Science and Technology, China
7047	A High-Dynamic and Ultra-Low Pressure Sensor with a Novel Beam-Island-Membrane Structure	5C1: M/NEMS	2	L	2024/5/5 10:05	2024/5/5 12:20	Room C	Yi Gao{2}, Juan Yang{3}, Wei Li{1}, Yushan Gao{1}, Libo Zhao{2}, Xiangguang Han{2}, Feng Han{2}, Mimi Huang{2}, Renjie Tan{2}	{1}Xi'an Aerospace Propulsion Institute, China; {2}Xi'an Jiaotong University, China; {3}Xi'an Satellite Control Center, China
7145	A Wearable Acoustic Sensor for Identification in Harsh Noisy Environments	5C1: M/NEMS	3	L	2024/5/5 10:05	2024/5/5 12:20	Room C	Tao Liu, Dongxiao Li, Mingyang Zhang, Hanjie Dou, Jiaqian Yang, Xiaojing Mu	Chongqing University, China
7137	Optimization of the Design and Microfabrication of a Biologically Inspired Nano-Aerial Flapping Wing Vehicle	5C1: M/NEMS	4	L	2024/5/5 10:05	2024/5/5 12:20	Room C	Marguerite de La Bigne{2}, Eric Cattan{2}, Sofiane Ghenna{2}, Marie Zwingelstein{2}, S̄bastien Grondel{2}, Olivier Thomas{1}	{1}Arts et M̄tiers Institute of Technology, LISPEN, HESAM, Universit̄ de Lille, France; {2}Universit̄ Polytechnique Hauts-de-France, IEMN, CNRS, Universit̄ de Lille, France
7147	A Large In-Plane-Displacement Micro-Platform Based on Electrothermal Bimorph Actuation	5C1: M/NEMS	5	L	2024/5/5 10:05	2024/5/5 12:20	Room C	Jingyi Chen, Hengzhang Yang, Shaoyu Zhao, Huikai Xie	Beijing Institute of Technology, China
7064	NOEMS Power Multiplied: A Novel Array-Based Multiplexing Scheme	5C1: M/NEMS	6	L	2024/5/5 10:05	2024/5/5 12:20	Room C	Wioletta Trzpil{2}, Thomas Furcatte{2}, Mathis Lefebvre{2}, Marc Gely{2}, Munique Kazar Mendes{2}, Christophe Masselon{1}, Guillaume Jourdan{2}, Marc Sansa{2}	{1}CEA-IRIG, Universit̄ Grenoble Alpes, Biologie à Grande Echelle, INSERM, France; {2}CEA-Leti, Universit̄ Grenoble Alpes, France

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7043	High-Order Resonance of Single-Crystal Diamond MEMS with High-Quality Factor at High Temperatures	5C1: M/NEMS	7	L	2024/5/5 10:05	2024/5/5 12:20	Room C	Guo Chen{2}, Zilong Zhang{3}, Keyun Gu{3}, Liwen Sang{3}, Satoshi Koizumi{3}, Masaya Toda{4}, Yasuo Koide{3}, Zhaohui Huang{1}, Meiyong Liao{3}	{1}China University of Geosciences, China; {2}China University of Geosciences, National Institute for Materials Science, China; {3}National Institute for Materials Science, Japan; {4}Tohoku University, Japan
7365	Atomically Thin NEMS Frequency Comb with Both Frequency Tunability and RECONFIGURABILITY via Simultaneous Mode Coupling	5C1: M/NEMS	8	L	2024/5/5 10:05	2024/5/5 12:20	Room C	Bo Xu, Jiaqi Wu, Zenghui Wang	University of Electronic Science and Technology of China, China
7170	A Sharp Phase Transition Shape Memory Polymer for Micro-Transfer Printing	5C1: M/NEMS	9	L	2024/5/5 10:05	2024/5/5 12:20	Room C	Jingyang Zhang, Xin Shu, Qinhuo Guo, Dong Lu, Yunda Wang	Hong Kong University of Science and Technology, China
7058	A Novel Flexible Thermoelectric Generator for Harvesting Low Thermal Heat Waste for Self-Powered Sensing System	5D1: Nanogenerators -Fundamentals and Applications-	1	L	2024/5/5 10:05	2024/5/5 12:20	Room D	Nguyen Van Toan{1}, Thi Kim Tuoi Truong{1}, Masaya Toda{1}, Nguyen Van Hieu{2}, Takahito Ono{1}	{1}Tohoku University, Japan; {2}Vietnam National University, Vietnam
7116	Opto-Mechanical Strain Coupling Effect in n-3C-SiC/n-Si Heterojunction: Toward Mechanical Sensing and Light Harvesting Applications	5D1: Nanogenerators -Fundamentals and Applications-	2	L	2024/5/5 10:05	2024/5/5 12:20	Room D	Dang D.H. Tran{2}, Tuan-Hung Nguyen{2}, Cong Nguyen{1}, Erik Streed{1}, Van Thanh Dau{1}, Dzung Viet Dao{2}	{1}Griffith University, Australia; {2}Queensland Micro- and Nanotechnology Centre, Griffith University, Australia
7119	A Printed Flexible Triboelectric NANOGENERATOR Based SILK-Fibroin for MULTI-Functional Wearable Sensing	5D1: Nanogenerators -Fundamentals and Applications-	3	L	2024/5/5 10:05	2024/5/5 12:20	Room D	Peng Huang, Yi-Lin Wang, Xin-Ran Zhang, Xu Zeng, Hangyu Qian, Xiao-Sheng Zhang	University of Electronic Science and Technology of China, China
7120	Nanogenerator Integrated Wings Towards Mechanical Energy Conversions for Bionic Flying Robots	5D1: Nanogenerators -Fundamentals and Applications-	4	L	2024/5/5 10:05	2024/5/5 12:20	Room D	Hao Zheng, Zhonglai Wang, Xiao-Sheng Zhang	University of Electronic Science and Technology of China, China
7018	A Triboelectric Tactile Sensor for Shore Hardness Measurement	5D1: Nanogenerators -Fundamentals and Applications-	5	L	2024/5/5 10:05	2024/5/5 12:20	Room D	Zheng Limin, Kangyu Su, Hongyu Cheng, Wenjun Wang, Yating Xie, Bo Meng	Shenzhen University, China
7096	Fabricable Polymer Micromachined Insect Mimetic Wing for Pico Air Vehicles	5D2: Flexible Sensors, Actuators and Robotics	1	L	2024/5/5 13:20	2024/5/5 15:00	Room D	Vinay Shankar, Nagi Shirakawa, Daisuke Ishihara	Kyushu Institute of Technology, Japan
7073	Curved Surfaces Induced Miniaturized METACHRONAL Motion of Magnetic Artificial Cilia	5D2: Flexible Sensors, Actuators and Robotics	2	L	2024/5/5 13:20	2024/5/5 15:00	Room D	Zhiwei Cui, Tanveer Ui Islam, Ye Wang, Jaap Den Toonder	Eindhoven University of Technology, Netherlands
7259	Photostimulating and Migrating Euglena Gracilis in a Microfluidic Channel with a Light Irradiation System	5D2: Flexible Sensors, Actuators and Robotics	3	L	2024/5/5 13:20	2024/5/5 15:00	Room D	Pulasta Chakrabarty{2}, Ryoga Ono{3}, Tuhin Subhra Santra{1}, Shunya Okamoto{3}, Takayuki Shibata{3}, Moeto Nagai{3}	{1}Indian Institute of Technology Madras, India; {2}Indian Institute of Technology Madras, Toyohashi University of Technology, India; {3}Toyohashi University of Technology, Japan
7109	An Artificial Muscle Device Driven Powered by methanol-Based Catalytic Combustion of nanoparticle-Coated Shape Memory Alloy	5D2: Flexible Sensors, Actuators and Robotics	4	L	2024/5/5 13:20	2024/5/5 15:00	Room D	Sanghoon Lee, Pritish Nagwade, Minseok Kang, Jaeu Park, Jinwoong Jeong, Heejae Shin, Youngjun Cho	Daegu Gyeongbuk Institute of Science and Technology, Korea
7023	Conformal Retinal Image Sensor Based Electrochemical Exfoliated Mos2 Nanosheets	5D2: Flexible Sensors, Actuators and Robotics	5	L	2024/5/5 13:20	2024/5/5 15:00	Room D	Lingxian Kong, Qi Su, Zhiyong Liu, Guanglan Liao, Bo Sun, Tielin Shi	Huazhong University of Science and Technology, China
7213	Biophysical Phenotyping Activated Sorting of Single Cells and Droplets in Microfluidics	5E1: Micro/Nano Fluidics and Devices	1	L	2024/5/5 10:05	2024/5/5 12:20	Room E	Ye Ai	Singapore University of Technology and Design, Singapore
7126	Integration of air-Liquid microfluidics Integrating Sers Substrate for Bacteria Identification Based on Adsorptive Separation	5E1: Micro/Nano Fluidics and Devices	2	L	2024/5/5 10:05	2024/5/5 12:20	Room E	Chi-Yao Ku, Nien-Tsu Huang	National Taiwan University, Taiwan
7288	Direct single-Molecule Imaging Based on a Microfluidic magnetophoretic Device	5E1: Micro/Nano Fluidics and Devices	3	L	2024/5/5 10:05	2024/5/5 12:20	Room E	Yun Hui{2}, Fengshan Shen{2}, Shuling Hao{1}	{1}Institute of Software Chinese Academy of Sciences, China; {2}Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, China

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7226	Microfluidic Device for Diffracted X-Ray Tracking Method to Measure the Conformational Change of Ion Channel in Response to Chemical Stimuli	5E1: Micro/Nano Fluidics and Devices	4	L	2024/5/5 10:05	2024/5/5 12:20	Room E	Yusuke Asagoe{1}, Hirofumi Shimizu{2}, Yoshikazu Hirai{1}	{1}Kyoto University, Japan; {2}University of Fukui, Japan
7229	PARAFFIN-Embedded IFAST-Based Microfluidic Platform for ROBUST, Integrated Extraction and Detection of Nucleic Acids	5E1: Micro/Nano Fluidics and Devices	5	L	2024/5/5 10:05	2024/5/5 12:20	Room E	Fengshan Shen, Jitao Mo, Yun Hui, Liwei Ouyang, Zongwen Jin, Wenhua Zhou, Xuefeng Yu	Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, China
7274	Controlled Formation of DNA Gels Using VIBRATION-Induced Local VORTICES	5E1: Micro/Nano Fluidics and Devices	6	L	2024/5/5 10:05	2024/5/5 12:20	Room E	Zhitai Huang{1}, Kanji Kaneko{1}, Ryotaro Yoneyama{1}, Tomoya Maruyama{2}, Takeshi Hayakawa{1}, Masahiro Takinoue{2}, Hiroaki Suzuki{1}	{1}Chuo University, Japan; {2}Tokyo Institute of Technology, Japan
7181	Streaming Current Generation: Investigating the Non-Negligible Electrokinetic Effect of a Highly Charged Nanoporous Layer	5E1: Micro/Nano Fluidics and Devices	7	L	2024/5/5 10:05	2024/5/5 12:20	Room E	Sehyuk Yoon{2}, Jihee Park{2}, Hyomin Lee{1}, Sung Jae Kim{2}	{1}Jeju National University, Korea; {2}Seoul National University, Korea

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7033	Deciphering CELL-NANOSTRUCTURE Interactions Using Advanced Imaging	3A1: Toward a Better Organ-on-a-Chip: Sensing, Analysis and Cell Culture in Microfluidic Device	1	L	2024/5/3 10:30	2024/5/3 12:30	Room A	Peilin Chen	Academia Sinica, Taiwan
7146	A Physiological Approach to Develop an in VITRO Tumor Model with MICROVESSELS	3A1: Toward a Better Organ-on-a-Chip: Sensing, Analysis and Cell Culture in Microfluidic Device	2	L	2024/5/3 10:30	2024/5/3 12:30	Room A	Yu-Hsiang Hsu	National Taiwan University, Taiwan
7049	Control and Sensing Oxygen Tension in Microfluidic Devices for Cell Culture Applications	3A1: Toward a Better Organ-on-a-Chip: Sensing, Analysis and Cell Culture in Microfluidic Device	3	L	2024/5/3 10:30	2024/5/3 12:30	Room A	Yi-Chung Tung	Academia Sinica, Taiwan
7122	Generation of Physiological Oxygen Gradient in Tumor Microenvironment for Enhanced Drug Evaluation	3A1: Toward a Better Organ-on-a-Chip: Sensing, Analysis and Cell Culture in Microfluidic Device	4	L	2024/5/3 10:30	2024/5/3 12:30	Room A	Jen-Huang Huang	National Tsing Hua University, Taiwan
7036	MACHINE-Learning Assisted Quantification of Cell Viability	3A1: Toward a Better Organ-on-a-Chip: Sensing, Analysis and Cell Culture in Microfluidic Device	5	L	2024/5/3 10:30	2024/5/3 12:30	Room A	Yi-Tin Lai, I-Chen Li, Meng-Ching Hsieh, Ji-Yen Cheng	Academia Sinica, Taiwan
7319	Multi-Modal Cell Analysis via On-Chip Distributed Sensor Networks	3A2: Single-Cell Handling and Analysis in Microfluidic Devices	1	L	2024/5/3 13:30	2024/5/3 14:50	Room A	A. Fatih Sarioglu	Georgia Institute of Technology, United States
7299	Combining microfluidics and MEMS/NEMS Sensors for the Biophysical Characterization of Biomarkers (cells, exosomes, viruses)	3A2: Single-Cell Handling and Analysis in Microfluidic Devices	2	L	2024/5/3 13:30	2024/5/3 14:50	Room A	Vincent Agache	CEA-Leti, France
7286	Massively Parallel Single-Cell Transfection and Analysis	3A2: Single-Cell Handling and Analysis in Microfluidic Devices	3	L	2024/5/3 13:30	2024/5/3 14:50	Room A	Tuhin Subhra Santra	Indian Institute of Technology Madras, India
7339	On-Chip Extracellular Solution Exchange Method with Air Valve Function Using air-Liquid Interface Control	3A2: Single-Cell Handling and Analysis in Microfluidic Devices	4	L	2024/5/3 13:30	2024/5/3 14:50	Room A	Shingo Kaneko{2}, Hirotaka Sugiura{2}, Satoshi Amaya{2}, Tsujii Masaru{1}, Nobuyuki Uozumi{1}, Fumihito Arai{2}	{1}Tohoku University, Japan; {2}University of Tokyo, Japan
7002	Microfluidic Approaches for the Analysis of Cancer Cells Toward Precise Liquid Biopsy	3A3: Nano/Micro-Fluidics and Its Applications	1	L	2024/5/3 15:00	2024/5/3 16:20	Room A	Soo Hyeon Kim	Institute of Industrial Science, University of Tokyo, Japan
7014	Combined Analysis of Cell Mechanics and transcriptome	3A3: Nano/Micro-Fluidics and Its Applications	2	L	2024/5/3 15:00	2024/5/3 16:20	Room A	Akifumi Shiomi	RIKEN, Cluster for Pioneering Research, Japan
7009	The Development of Corneal epithelium-on-a-Chip for Drug Development and Disease Modeling	3A3: Nano/Micro-Fluidics and Its Applications	3	L	2024/5/3 15:00	2024/5/3 16:20	Room A	Rodi Kado Abdalkader	Ritsumeikan Global Innovation Research Organization R-GIRO, Ritsumeikan University, Japan
7017	Micropillar and microfluidics for the Measurement of Plant Root Mechanical Properties	3A3: Nano/Micro-Fluidics and Its Applications	4	L	2024/5/3 15:00	2024/5/3 16:20	Room A	Marcel Beier	Hokkaido University, Japan
7115	Microfabricated Vapor Cells for Compact Optical Clocks	3B1: NEMS/MEMS in Atomic Clock Devices	1	L	2024/5/3 10:30	2024/5/3 12:30	Room B	Matthew Hummon	National Institute of Standards and Technology, United States
7138	Current State of CHIP-Scale Atomic CLOCKS: OVERVIEW, Performance Enhancement METHODS, and Evaluation Systems	3B1: NEMS/MEMS in Atomic Clock Devices	2	L	2024/5/3 10:30	2024/5/3 12:30	Room B	Shigeyoshi Goka	Tokyo Metropolitan University, Japan
7012	MEMS Wavelength Tunable VCSEL for Chip-Scale Atomic Clock	3B1: NEMS/MEMS in Atomic Clock Devices	3	L	2024/5/3 10:30	2024/5/3 12:30	Room B	Hiroshi Toshiyoshi{3}, Keiji Isamoto{1}, Nobuhiko Nishiyama{2}	{1}Santec OIS Corp., Japan; {2}Tokyo Institute of Technology, Japan; {3}University of Tokyo, Japan
7044	Development of a Miniature ultra-High Vacuum Cell for Generation of Cold Atoms	3B1: NEMS/MEMS in Atomic Clock Devices	4	L	2024/5/3 10:30	2024/5/3 12:30	Room B	Yuichi Kurashima{1}, Taisei Motomura{1}, Shinya Yanagimachi{1}, Takashi Matsumae{1}, Naoto Oshima{2}, Mitsuhiro Watanabe{2}, Hideki Takagi{1}	{1}National Institute of Advanced Industrial Science and Technology, Japan; {2}Nihon University, Japan
7300	Multifunctional Dielectric metasurface for Microfabricated reflection-Type Vapor Cell	3B1: NEMS/MEMS in Atomic Clock Devices	5	L	2024/5/3 10:30	2024/5/3 12:30	Room B	Kentaro Iwami	Tokyo University of Agriculture and Technology, Japan
7072	Chip-Level Integrated Frequency Standard (CLIFS): How Do We Realize the Chip for the Atomic clock?	3B1: NEMS/MEMS in Atomic Clock Devices	6	L	2024/5/3 10:30	2024/5/3 12:30	Room B	Motoaki Hara	National Institute of Information and Communications Technology, Japan
7294	New Opportunities for MEMS in Silicon Photonics	3B2: Nanostructured Sensors I	1	L	2024/5/3 13:30	2024/5/3 14:50	Room B	Sangyoon Han	Daegu Gyeongbuk Institute of Science and Technology, Korea
7295	Study on Elastic Strain Engineering of Semiconducting Nanowires	3B2: Nanostructured Sensors I	2	L	2024/5/3 13:30	2024/5/3 14:50	Room B	Yoshitada Isono	Kobe University, Japan

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7311	Highly Sensitive Physical Sensors Based on Si/SiC nanoheterojunction	3B2: Nanostructured Sensors I	3	L	2024/5/3 13:30	2024/5/3 14:50	Room B	Dzung Viet Dao	Queensland Micro- and Nanotechnology Centre, Griffith University, Australia
7302	Single-Electron Sensing at Ambient Temperature and Pressure Using Silicon on Glass Technology	3B2: Nanostructured Sensors I	4	L	2024/5/3 13:30	2024/5/3 14:50	Room B	Yong Zhu	Griffith University, Australia
7320	Advanced Healthcare Sensors Utilizing Nanostructured Materials and Electromechanical Devices	3B3: Nanostructured Sensors II	1	L	2024/5/3 15:00	2024/5/3 16:20	Room B	Takahito Ono	Tohoku University, Japan
7324	Rapid Detection of Bacteria Using Ultrasonic nanosieve Technology	3B3: Nanostructured Sensors II	2	L	2024/5/3 15:00	2024/5/3 16:20	Room B	Victor Cadarso	Monash University, Australia
7340	Sensor and its Application in Advanced Geotechnical Sensing for Smart Highway	3B3: Nanostructured Sensors II	3	L	2024/5/3 15:00	2024/5/3 16:20	Room B	Van Thanh Dau{1}, Dzung Viet Dao{2}	{1}Griffith University, Australia; {2}Queensland Micro- and Nanotechnology Centre, Griffith University, Australia
7321	Novel Micro-Lens Piezoelectric Actuator and Sensor with Resonant Controller	3B3: Nanostructured Sensors II	4	L	2024/5/3 15:00	2024/5/3 16:20	Room B	Aron Michael	University of New South Wales, Australia
7004	Tunable N/MEMS Metadevices for Sensing Applications	3C1: MEMS, NEMS and Metamaterials for Advanced Applications	1	L	2024/5/3 10:30	2024/5/3 12:30	Room C	Yu-Sheng Lin	Sun Yat-sen University, China
7099	MEMS-Enabled and AI-Enhanced On-Chip Computational Spectrometers	3C1: MEMS, NEMS and Metamaterials for Advanced Applications	2	L	2024/5/3 10:30	2024/5/3 12:30	Room C	Yiming Ma	Shanghai University, China
7185	Artificial Intelligence-Assisted Optical, Visual, and Ion Mobility Spectroscopy for High-Sensitivity Molecules Sensing	3C1: MEMS, NEMS and Metamaterials for Advanced Applications	3	L	2024/5/3 10:30	2024/5/3 12:30	Room C	Jianxiong Zhu	Southeast University, China
7188	MEMS Gas Sensors with Compatible Fabrication Technology and Machine Learning Methods	3C1: MEMS, NEMS and Metamaterials for Advanced Applications	4	L	2024/5/3 10:30	2024/5/3 12:30	Room C	Fei Wang	Southern University of Science and Technology, China
7247	AIN Based Lamb Wave Resonators with High Effective Coupling Coefficient	3C1: MEMS, NEMS and Metamaterials for Advanced Applications	5	L	2024/5/3 10:30	2024/5/3 12:30	Room C	Zhiyu Wang, Jiewei Jiang, Chen Ma, Qinghua Ren, Jianlin Chen, Fengyuan Yang, Yiming Ma, Nan Wang	Shanghai University, China
7123	A cutting-Edge Cell Sorting technology: the Power of Intelligent image-Activated Cell Sorting and Deep Learning in single-Cell Analysis	3C2: Fabrication and Application of Novel Nano/Micro Optical Devices	1	L	2024/5/3 13:30	2024/5/3 14:50	Room C	Akihiro Isozaki	Ritsumeikan University, Japan
7290	All-Dielectric nanoantennas and metamaterials for Highly Sensitive Molecular Spectroscopy	3C2: Fabrication and Application of Novel Nano/Micro Optical Devices	2	L	2024/5/3 13:30	2024/5/3 14:50	Room C	Taka-Aki Yano	Tokushima University, Japan
7149	Gallium Nitride micro-Cavity Fabrication Using laser-Assisted photo-Electrochemical Etching	3C2: Fabrication and Application of Novel Nano/Micro Optical Devices	3	L	2024/5/3 13:30	2024/5/3 14:50	Room C	Takeyoshi Tajiri	University of Electro-Communications, Japan
7282	Microstructures for Terahertz Wave Control Fabricated by Ultrafast Laser Processing	3C2: Fabrication and Application of Novel Nano/Micro Optical Devices	4	L	2024/5/3 13:30	2024/5/3 14:50	Room C	Kuniaki Konishi	University of Tokyo, Japan
7164	Fast and Low-Temperature Bonding of Heterogeneous Materials	3C3: MEMS-LSI integration for sensor applications	1	L	2024/5/3 15:00	2024/5/3 16:20	Room C	Maik Wiemer, Frank Roscher, Dirk Wuensch, Christian Hofmann, Dominic Richter, Knut Gottfried, Stefan E. Schulz	Fraunhofer Institute for Electronic Nano Systems ENAS, Germany
7307	CMOS-MEMS Ultrasound Transducers and Their Applications	3C3: MEMS-LSI integration for sensor applications	2	L	2024/5/3 15:00	2024/5/3 16:20	Room C	Sheng-Shian Li	National Tsing Hua University, Taiwan
7313	Integrated Electrochemical Devices for bioimaging and bioanalysis	3C3: MEMS-LSI integration for sensor applications	3	L	2024/5/3 15:00	2024/5/3 16:20	Room C	Kosuke Ino	Tohoku University, Japan
7337	Flexible Wearable Sensing Platforms: Rapid Prototyping of Laser-Induced-Graphene Sensors Built Using an Open-Source Analog Front-Ends	3C3: MEMS-LSI integration for sensor applications	4	L	2024/5/3 15:00	2024/5/3 16:20	Room C	Mehdi Saligane	University of Michigan, United States
7333	Novel system-in-Package Digital MOX Sensors with Exceptional Identification Capabilities Enabled by Impedance Readout and Machine Learning	3D2: Emerging Gas Sensing Technologies and Their Applications	1	L	2024/5/3 13:30	2024/5/3 14:50	Room D	Ivan Elmi{1}, Paolo Bruschi{3}, Andrea Ria{2}, Massimo Piotto{4}, Francesco Magliocca{2}, Michele Vitelli{2}, Stefano Zampolli{1}	{1}CNR-IMM, Italy; {2}SensiChips, Italy; {3}Univerdità di Pisa, Italy; {4}Università di Pisa, Italy

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7345	Mobile Robot Olfaction: Recent Advancements and Future Directions	3D2: Emerging Gas Sensing Technologies and Their Applications	2	L	2024/5/3 13:30	2024/5/3 14:50	Room D	Haruka Matsukura{2}, Hiroshi Ishida{1}	{1}Tokyo University of Agriculture and Technology, Japan; {2}University of Electro-Communications, Japan
7343	Visualization of Odor Space with 2D plasmonic Sensor	3D2: Emerging Gas Sensing Technologies and Their Applications	3	L	2024/5/3 13:30	2024/5/3 14:50	Room D	Kenshi Hayashi	Kyushu University, Japan
7334	Sensing Technology Based on Insect Olfactory receptor-Expressing Sensor Cells	3D2: Emerging Gas Sensing Technologies and Their Applications	4	L	2024/5/3 13:30	2024/5/3 14:50	Room D	Hidefumi Mitsuno, Yuji Sukekawa, Ryohei Kanzaki	University of Tokyo, Japan
7078	Bio-Inspired Design of DNA NanoGripper for Virus Sensing and Potential Inhibition	3D3: DNA/RNA Molecular Machines and Structures	1	L	2024/5/3 15:00	2024/5/3 16:20	Room D	Lifeng Zhou	Peking University, China
7082	Programming Wireframe DNA Nanostructures Using Top-Down Geometric Specification	3D3: DNA/RNA Molecular Machines and Structures	2	L	2024/5/3 15:00	2024/5/3 16:20	Room D	Hyungmin Jun, Minhchien Trinh	Jeonbuk National University, Korea
7117	Nanopore-Powered DNA turbines: Towards bio-Inspired nanorobotics	3D3: DNA/RNA Molecular Machines and Structures	3	L	2024/5/3 15:00	2024/5/3 16:20	Room D	Xin Shi	Katholieke Universiteit Leuven, Belgium
7100	Paper Folding with DNA Origami	3D3: DNA/RNA Molecular Machines and Structures	4	L	2024/5/3 15:00	2024/5/3 16:20	Room D	Do-Nyun Kim	Seoul National University, Korea
7190	Electromyographic Analysis of the Palm Muscle During Baseball Pitching Using an Elastic Kirigami Patch	4A1: Biomaterials and Biodevices I	1	L	2024/5/4 10:00	2024/5/4 12:00	Room A	Kento Yamagishi	University of Tokyo, Japan
7204	Flexible 3D Bioelectronic Interfaces for Investigating Neuromuscular Systems	4A1: Biomaterials and Biodevices I	2	L	2024/5/4 10:00	2024/5/4 12:00	Room A	Amir Vahabikashi{1}, Maria Jose Quezada{2}, Isabel O'Malley-Kroh{2}, Yong-Woo Kang{2}, Shreyaa Khanna{2}, Minkyu Lee{2}, Andrea Domenighetti{2}, Colin Franz{2}, John A. Rogers{2}	{1}Northeastern University, United States; {2}Northwestern University, United States
7261	Addressing Unmet Needs with 3D Printed Electronics	4A1: Biomaterials and Biodevices I	3	L	2024/5/4 10:00	2024/5/4 12:00	Room A	Yong Lin Kong	University of Utah, United States
7298	3D Printing with Light for Light	4A1: Biomaterials and Biodevices I	4	L	2024/5/4 10:00	2024/5/4 12:00	Room A	Joel Yang	Singapore University of Technology and Design, Singapore
7327	GNN for Protein Melting Temperature Prediction from Structural and Dynamical Multigraphs Representations	4A1: Biomaterials and Biodevices I	5	L	2024/5/4 10:00	2024/5/4 12:00	Room A	Yen-Lin Chen, Shu-Wei Chang	National Taiwan University, Taiwan
7328	Atomistic Modeling for the KERATIN-Based Polymer Materials in Bioengineering Application	4A1: Biomaterials and Biodevices I	6	L	2024/5/4 10:00	2024/5/4 12:00	Room A	Yu-Cheng Lai, Chia-Hung Wu, Cheng-Wei Wang, Chia-Ching Chou	National Taiwan University, Taiwan
7306	Towards active, Dynamic and Configurable microfluidics	4A2: Biomaterials and Biodevices II	1	L	2024/5/4 13:00	2024/5/4 15:00	Room A	Ho Cheung Anderson Shum	University of Hong Kong & Advanced Biomedical Instrumentation Centre, Hong Kong
7329	Extracorporeal Blood Cleansing Using Cell MEMBRANE-Coated Magnetic NANOCLUSTERS Mitigates Sepsis in Swine	4A2: Biomaterials and Biodevices II	2	L	2024/5/4 13:00	2024/5/4 15:00	Room A	Joo H. Kang	Ulsan National Institute of Science and Technology, Korea
7312	Identifying BBB-Penetrating Aptamers Using Human Microphysiological Systems-Based SELEX Technology	4A2: Biomaterials and Biodevices II	3	L	2024/5/4 13:00	2024/5/4 15:00	Room A	Jeong-Won Choi{2}, Minwook Seo{2}, Kyunghwan Kim{2}, A-Ru Kim{1}, Jinmyoung Joo{2}, Tae-Eun Park{2}	{1}Nexmos, Korea; {2}Ulsan National Institute of Science and Technology, Korea
7318	Organ-on-a-Chip Fabrication Using Dynamic Photomask	4A2: Biomaterials and Biodevices II	4	L	2024/5/4 13:00	2024/5/4 15:00	Room A	Michinao Hashimoto	Singapore University of Technology and Design, Singapore
7308	Biodegradable Silicon MICROMATRIX for Controllable RETINOIC Acid Supplement in NEUROAL Differentiation	4A2: Biomaterials and Biodevices II	5	L	2024/5/4 13:00	2024/5/4 15:00	Room A	Jinmyoung Joo	Ulsan National Institute of Science and Technology, Korea
7152	Nanofabricated Neural Electrodes for intracortical Recording and Stimulation	4B1: Advanced Microengineering for Neuroscience	1	L	2024/5/4 10:00	2024/5/4 12:00	Room B	Chong Xie	Rice University, United States
7156	Fully Integrated Digital CMOS Neural Probes	4B1: Advanced Microengineering for Neuroscience	2	L	2024/5/4 10:00	2024/5/4 12:00	Room B	Daniel De Dorigo, Daniel Wendler, Roman Willaredt, Matthias Kuhl	Laboratory for Microelectronics, Albert-Ludwigs-Universität Freiburg, Germany
7148	Highly Flexible 7LED Implants for Preclinical Neurotechnological Research	4B1: Advanced Microengineering for Neuroscience	3	L	2024/5/4 10:00	2024/5/4 12:00	Room B	Eric Klein	Albert-Ludwigs-Universität Freiburg, Germany

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7091	Wireless Optogenetic Brain Implant: a Tool for Neuroscientific Research and Therapeutics	4B1: Advanced Microengineering for Neuroscience	4	L	2024/5/4 10:00	2024/5/4 12:00	Room B	Jae-Woong Jeong	Korea Advanced Institute of Science and Technology, Korea
7127	Brain Interface: Electrophysiology to Neuromodulation and Extension to Multi-Modalities	4B1: Advanced Microengineering for Neuroscience	5	L	2024/5/4 10:00	2024/5/4 12:00	Room B	Euisik Yoon	University of Michigan, United States
7285	Modularized microrobot for Targeted Cell Delivery	4B2: Micro-Nano Robots and Their Biomedical Applications	1	L	2024/5/4 13:00	2024/5/4 15:00	Room B	Li Zhang	Chinese University of Hong Kong, Hong Kong
7003	Microrobotic Systems for Single Cell Analysis	4B2: Micro-Nano Robots and Their Biomedical Applications	2	L	2024/5/4 13:00	2024/5/4 15:00	Room B	Chengzhi Hu	Southern University of Science and Technology, China
7370	Investigating the Influence of Surfactants on Surface Characteristics of Chemical Vapor Deposition (CVD) Graphene	4B2: Micro-Nano Robots and Their Biomedical Applications	3	L	2024/5/4 13:00	2024/5/4 15:00	Room B	Uchechukwu Wejinya	University of Arkansas, United States
7131	Micromanipulator-Actuated Characterization of Engineered Functional myobundles for Drug Screening	4B2: Micro-Nano Robots and Their Biomedical Applications	4	L	2024/5/4 13:00	2024/5/4 15:00	Room B	Tao Sun	Beijing Institute of Technology, China
7315	A FPGA-Based Integrated low-Power System Towards to Electrophysiological Signal Acquisition	4B2: Micro-Nano Robots and Their Biomedical Applications	5	L	2024/5/4 13:00	2024/5/4 15:00	Room B	Fanmu Qiu, Xikai Sun, Shuo Zhang, Zhan Yang	Soochow University, China
7335	Marsupial Robotic System for Targeting Drug Delivery in Glioblastoma Treatment	4B2: Micro-Nano Robots and Their Biomedical Applications	6	L	2024/5/4 13:00	2024/5/4 15:00	Room B	Niandong Jiao	Shenyang Institute of Automation, Chinese Academy of Sciences, China
7182	Flexible Piezoelectric MEMS Sensors and Actuators Based on PZT Thick Films	4C1: More than energy harvesting - Advances in Piezoelectric/Triboelectric Applications	1	L	2024/5/4 10:00	2024/5/4 12:00	Room C	Bin Yang	Shanghai Jiao Tong University, China
7184	Triboelectric Nanogenerator-Driven Resistive Sensing Systems for Multimodal Monitoring and Interactions	4C1: More than energy harvesting - Advances in Piezoelectric/Triboelectric Applications	2	L	2024/5/4 10:00	2024/5/4 12:00	Room C	Qiongfeng Shi, Jianlong Hong, Jun Wu	Southeast University, China
7186	Fusion of AI-Assisted Smart Sensing and Haptic Feedback Techniques	4C1: More than energy harvesting - Advances in Piezoelectric/Triboelectric Applications	3	L	2024/5/4 10:00	2024/5/4 12:00	Room C	Minglu Zhu, Tao Chen	Soochow University, China
7187	Hybrid Bionic Nerve Interface and Triboelectric Neurostimulator for Application in Bionic Limbs	4C1: More than energy harvesting - Advances in Piezoelectric/Triboelectric Applications	4	L	2024/5/4 10:00	2024/5/4 12:00	Room C	Sanghoon Lee	Daegu Gyeongbuk Institute of Science and Technology, Korea
7250	Advances in AIN-Based Piezoelectric Micro-Machined Ultrasound Transducers (PMUT)	4C1: More than energy harvesting - Advances in Piezoelectric/Triboelectric Applications	5	L	2024/5/4 10:00	2024/5/4 12:00	Room C	Liang Lou	Shanghai Industrial Technology Research Institute, China
7255	Recent Advances in Monolithic CMOS-MEMS Ultrasonic Transducers	4C2: Micro/Nano Resonant Transducers	1	L	2024/5/4 13:00	2024/5/4 15:00	Room C	Ming-Huang Li	National Tsing Hua University, Taiwan
7305	Sensor Platform Using Flexural Mode Piezoelectric MEMS Resonators	4C2: Micro/Nano Resonant Transducers	2	L	2024/5/4 13:00	2024/5/4 15:00	Room C	Gayathri Pillai	Indian Institute of Science, India
7338	Nanomechanical Resonance Modes and Frequency Combs for Temperature Sensing	4C2: Micro/Nano Resonant Transducers	3	L	2024/5/4 13:00	2024/5/4 15:00	Room C	Azadeh Ansari	Georgia Institute of Technology, United States
7331	CMOS-Compatible Piezoelectric MICROACOUSTIC METAMATERIALS for Radio Frequency Applications	4C2: Micro/Nano Resonant Transducers	4	L	2024/5/4 13:00	2024/5/4 15:00	Room C	Cristian Cassella	Northeastern University, United States
7006	MEMS Acoustic Waves in Piezoelectric Thin Films for RF Applications	4C2: Micro/Nano Resonant Transducers	5	L	2024/5/4 13:00	2024/5/4 15:00	Room C	Yansong Yang	Hong Kong University of Science and Technology, Hong Kong
7046	Continuous Perfusion of Spheroids on a Flexibly Reconfigurable Microfluidic Chip	5A1: Biomaterials and Biodevices III	1	L	2024/5/5 10:05	2024/5/5 12:20	Room A	Yong-Ak Song, Hiba Aljayyousi, Sarah Sahloul, Ajymurat Orozaliev, Navajit Baban, Jongmin Kim	New York University Abu Dhabi, U.A.E.
7287	Self-Enriching Coacervates for Ultra-Sensitive Biosensing	5A1: Biomaterials and Biodevices III	2	L	2024/5/5 10:05	2024/5/5 12:20	Room A	Chaofeng Cen ^{1} , Xudong Ma ^{1} , Zhou Liu ^{1} , Cheng Qi ^{1} , Ho Cheung Anderson Shum ^{2} , Tiantian Kong ^{1}	^{1} Shenzhen University, China; ^{2} University of Hong Kong & Advanced Biomedical Instrumentation Centre, Hong Kong
7291	How Far Is Lignin from Being a Biomedical material?	5A1: Biomaterials and Biodevices III	3	L	2024/5/5 10:05	2024/5/5 12:20	Room A	Dan Kai	Institute of Sustainability for Chemicals, Energy, and Environment, Singapore
7293	Origami Paper Device for point-of-Care Testing	5A1: Biomaterials and Biodevices III	4	L	2024/5/5 10:05	2024/5/5 12:20	Room A	Zhugen Yang	Cranfield University, United Kingdom
7310	Cryomicroneedles for Transdermal Cell Delivery for Immunotherapy	5A1: Biomaterials and Biodevices III	5	L	2024/5/5 10:05	2024/5/5 12:20	Room A	Chenjie Xu	City University of Hong Kong, Hong Kong
7330	Living Metasurface Immunosorbent Assay for Single-Cell Immune Functional Profiling	5A1: Biomaterials and Biodevices III	6	L	2024/5/5 10:05	2024/5/5 12:20	Room A	Chia-Hung Chen	City University of Hong Kong, Hong Kong

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7239	Hydrogel-Based Isolation of Extracellular Vesicles	5A2: Micro/Nano-Biological Application	1	L	2024/5/5 13:20	2024/5/5 15:00	Room A	Junbeom Kim{1}, Ji Yoon Kang{1}, Ki Wan Bong{2}, Nakwon Choi{1}	{1}Korea Institute of Science and Technology, Korea; {2}Korea University, Korea
7016	In vitro Platforms to Study Biomechanics and mechanobiology for 3D Spheroid Models	5A2: Micro/Nano-Biological Application	2	L	2024/5/5 13:20	2024/5/5 15:00	Room A	Jeonghyun Kim, Takashi Inagaki, Kotone Niioka, Eijiro Maeda, Takeo Matsumoto	Nagoya University, Japan
7057	All-Organic Electro-Mechanical Devices for Bioelectric Transduction	5A2: Micro/Nano-Biological Application	3	L	2024/5/5 13:20	2024/5/5 15:00	Room A	Shotaro Yoshida	Chuo University, Japan
7176	Microdevice for Multi-Scale Analysis of in Vitro Neuronal Networks	5A2: Micro/Nano-Biological Application	4	L	2024/5/5 13:20	2024/5/5 15:00	Room A	Kenta Shimba	University of Tokyo, Japan
7008	Biohybrid system, Composed of Cultured Tissue and Artificial components, Formed with microfabrication Techniques	5A2: Micro/Nano-Biological Application	5	L	2024/5/5 13:20	2024/5/5 15:00	Room A	Yuya Morimoto	Waseda university, Japan
7304	Skin-Interfaced Flexible Patch with Programmable Adhesion	5B1: Micro/nano-technologies for next generation sensors	1	L	2024/5/5 10:05	2024/5/5 12:20	Room B	Hoon Eui Jeong, Geonjun Choi, Jaeil Kim, Seongjin Park, Dong Kwan Kang	Ulsan National Institute of Science and Technology, Korea
7301	Ultra-Flexible Organic Devices for Health Monitoring	5B1: Micro/nano-technologies for next generation sensors	2	L	2024/5/5 10:05	2024/5/5 12:20	Room B	Tomoyuki Yokota	University of Tokyo, Japan
7326	Breaking Sensitivity Barriers: Soft Bioelectrochemical Transistors	5B1: Micro/nano-technologies for next generation sensors	3	L	2024/5/5 10:05	2024/5/5 12:20	Room B	Shiming Zhang	University of Hong Kong, Hong Kong
7314	Soft Matter Hydrodynamics for Coating and Patterning Technology	5B1: Micro/nano-technologies for next generation sensors	4	L	2024/5/5 10:05	2024/5/5 12:20	Room B	Hyounghoo Kim	Korea Advanced Institute of Science and Technology, Korea
7296	Aluminum-Based Multiscale 3D Lithography Enables Customizable Flexible Sensors	5B1: Micro/nano-technologies for next generation sensors	5	L	2024/5/5 10:05	2024/5/5 12:20	Room B	Liaoyong Wen	Westlake University, China
7322	Biochemical Hydrogel Sensor Using DNA Nanotechnology	5B1: Micro/nano-technologies for next generation sensors	6	L	2024/5/5 10:05	2024/5/5 12:20	Room B	Hiroaki Onoe	Keio University, Japan
7325	Micro-Led Based Monolithic Gas Sensors for low-Power e-Nose System	5B1: Micro/nano-technologies for next generation sensors	7	L	2024/5/5 10:05	2024/5/5 12:20	Room B	Inkyu Park	Korea Advanced Institute of Science and Technology, Korea
7171	Parity-Time Symmetry in Weakly Coupled Silicon Resonators	5B2: Micromechanical Coupled Resonators	1	L	2024/5/5 13:20	2024/5/5 15:00	Room B	Qing-An Huang	Southeast University, China
7316	Using Coupled-Modes of Micro/Nanomechanical Resonators for Sensor Enhancement	5B2: Micromechanical Coupled Resonators	2	L	2024/5/5 13:20	2024/5/5 15:00	Room B	Xudong Zou	Aerospace Information Research Institute, Chinese Academy of Sciences, China
7292	MEMS Resonator and Control System for Mode Localization Sensing	5B2: Micromechanical Coupled Resonators	3	L	2024/5/5 13:20	2024/5/5 15:00	Room B	Takashi Tsukamoto	Tohoku University, Japan
7207	Towards Multi-Modal Multi-Resonator MEMS Sensors: Exploiting Nonlinear Effects and Modal Interactions Within MEMS Resonators	5B2: Micromechanical Coupled Resonators	4	L	2024/5/5 13:20	2024/5/5 15:00	Room B	Chun Zhao	University of York, United Kingdom
7303	Energy Transfer in Coupled Microelectromechanical Resonators	5B2: Micromechanical Coupled Resonators	5	L	2024/5/5 13:20	2024/5/5 15:00	Room B	Hemin Zhang	Northwestern Polytechnical University, China
7206	Low Temperature Fusion of metals. Observation and Property	5C2: Next Generation Conductive Materials	1	L	2024/5/5 13:20	2024/5/5 15:00	Room C	Tetsu Yonezawa	Hokkaido University, Japan
7035	Stretchable Liquid Metal Antennas Using Direct Ink Writing (DIW) 3D Printed microchannels	5C2: Next Generation Conductive Materials	2	L	2024/5/5 13:20	2024/5/5 15:00	Room C	Kento Yamagishi	University of Tokyo, Japan
7105	Highly-Stretchable and High-Performance Electronic Devices by Electronic Component Mounting Using Liquid Metal	5C2: Next Generation Conductive Materials	3	L	2024/5/5 13:20	2024/5/5 15:00	Room C	Takashi Sato	Waseda University, Japan
7143	Smart Stretchable Hybrid Devices Using Liquid Metal	5C2: Next Generation Conductive Materials	4	L	2024/5/5 13:20	2024/5/5 15:00	Room C	Hiroki Ota	Yokohama National University, Japan
7022	Printed Soft Sensors Based on Liquid Metals	5C2: Next Generation Conductive Materials	5	L	2024/5/5 13:20	2024/5/5 15:00	Room C	Shizuo Tokito, Yi-Fei Wang	Yamagata University, Japan