

**PROGRAMME OF OPTOFLUIDICS 2016
24-27 JULY 2016, BEIJING, CHINA**

HONGYUN BALLROOM

Monday, 25 July 2016	
08:00 – 08:30	Registration
08:30 – 08:50	Opening Ceremony Chairs: <i>Zhihong Li, Peking University, China</i> <i>Jianhua Qin, Dalian Institute of Chemical Physics, CAS, China</i>
08:50 – 10:20	Plenary Session I-1 Session Chairs: <i>Ai-Qun Liu, Nanyang Technological University, Singapore</i> <i>Arben Merkoci, Catalan Institute of Nanoscience and Nanotechnology (ICN2), Spain</i>
08:50 – 09:20	Nanobiodevices for Ultrafast DNA Sequencing, Cancer Diagnosis/Therapy, and iPS Cell-Based Regenerative Medicine <i>Yoshinobu Baba, Nagoya University, Japan</i>
09:20 – 09:50	Microfluidic Physiological Systems for Biomedicine: from in vivo Liquid Biopsy to in vitro Vascularized Micro Organs <i>Abraham P. Lee, University of California, Irvine, USA</i>
09:50 – 10:20	Nanoscale Imaging and Sensing of Live Cells <i>Adam Wax, Duke University, USA</i>
10:20 – 10:40	Coffee & Tea Break
08:50 – 10:20	Plenary Session I-2 Session Chairs: <i>Abraham P. Lee, University of California, Irvine, USA</i> <i>Xingyu Jiang, National Center for Nanoscience and Technology, China</i>
10:40 – 11:10	Low Cost Water Monitoring System based on Unit-Modular Concept <i>Ryo Miyake, The University of Tokyo, Japan</i>
11:10 – 11:40	Microfluidic Devices for Separation of Bioparticles Based on Deterministic Lateral Displacement <i>Yong Zhang, National University of Singapore, Singapore</i>
11:40 – 12:10	Paper-based Sensors in Diagnostics <i>Arben Merkoci, Catalan Institute of Nanoscience and Nanotechnology (ICN2), Spain</i>
12:10 – 13:30	Lunch & Poster Session
Wednesday, 27 July 2016	
08:00 – 08:30	Registration
08:30 – 11:50	Plenary Session II-1 Session Chairs: <i>Chaoyong Yang, Xiamen University, China</i> <i>Paddy French, Delft University of Technology, The Netherlands</i>
08:30 – 09:00	Optofluidic Waveguides for Photonic Devices and Sensing Applications <i>Romeo Bernini, Institute for the Electromagnetic Monitoring of Environment (IREA), The National Research Council (CNR), Italy</i>
09:00 – 09:30	Advances in Optofluidic Microlasers <i>Francesco Simoni, Università Politecnica delle Marche, Italy</i>
09:30 – 10:00	Exceptional Fluidic Effects and Applications of Liquid Metal Machines in Aqueous Solutions <i>Jing Liu, Tsinghua University, China</i>

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10:00 – 10:20	Coffee & Tea Break
08:30 – 11:50	Plenary Session II-2 Session Chairs: <i>Jianhua Qin, Dalian Institute of Chemical Physics, CAS, China</i> <i>Romeo Bernini, Romeo Bernini, Institute for the Electromagnetic Monitoring of Environment (IREA), The National Research Council (CNR), Italy</i>
10:20 – 10:50	Generating the Third Dimension in Flatland <i>Paddy French, Delft University of Technology, The Netherlands</i>
10:50 – 11:20	Force, Stress, and Cell Development – A Microsystems Approach <i>Yu Sun, University of Toronto, Canada</i>
11:20 – 11:50	Acoustofluidics – Some Applications of Ultrasound in Microsystems <i>Martyn Hill, University of Southampton, UK</i>
11:50 – 13:30	Lunch & Poster Session

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ROOM 1

Monday, 25 July 2016	
13:30 – 15:25	Session 1M1: Metamaterials, Plasmonics and Metasurfaces Session Chairs: <i>Byoungho Lee, Seoul National University, Korea</i> <i>Jiaming Hao, Shanghai Institute of Technical Physics, CAS, China</i>
13:30 – 14:00	Broadband Nano-light-source through Plasmon Nanofocusing for Background-Free NSOM and TERS Imaging (Keynote) <i>Prabhat Verma, Osaka University, Japan</i>
14:00 – 14:30	Revisit Metamaterials from the Perspective of Information Science (Keynote) <i>Tiejun Cui, Southeast University, China</i>
14:30 – 14:50	Plasmonic Application with 2D Materials and Its Near-field Optical Characterizations (Invited) <i>Zheyu Fang, Peking University, China</i>
14:50 – 15:10	High Capacity Optical Information Technology Mediated by Surface Plasmons (Invited) <i>Xiangping Li, Jinan University, China</i>
15:10 – 15:25	Topologically Protected Interface Mode in Plasmonic Waveguide Arrays <i>Qing Qing Cheng, University of Shanghai for Science and Technology, China</i>
15:30 – 15:50	Coffee & Tea Break
15:50 – 18:20	Session 1M2: Metamaterials, Plasmonics and Metasurfaces Session Chairs: <i>Prabhat Verma, Osaka University, Japan</i> <i>Zheyu Fang, Peking University, China</i>
15:50 – 16:20	Nanowire/nanorod Plasmonic Sensors and Lasers (Keynote) <i>Limin Tong, Zhejiang University, China</i>
16:20 – 16:50	Nanoslit Array Metasurfaces for Plasmonic Beam Manipulation (Keynote) <i>Byoungho Lee, Seoul National University, Korea</i>
16:50 – 17:10	Cloaking by Metasurfaces in the Transmission Geometry (Invited) <i>Yun Lai, Soochow University, China</i>
17:10 – 17:30	Highly Efficient Planar Photonics by Gradient Phase Metasurfaces (Invited) <i>Shulin Sun, Fudan University, China</i>
17:30 – 17:50	Tailor the Functionalities of Metasurfaces: From Perfect Absorption to Phase Modulation (Invited) <i>Jiaming Hao, Shanghai Institute of Technical Physics of the Chinese Academy of Sciences, China</i>
17:50 – 18:05	Full-range Gate-controlled Terahertz Phase Modulation with Graphene <i>Ziqi Miao, Fudan University, China</i>
18:05 – 18:20	Active Microwave Metasurfaces for High-performance Operations: Dispersion Compensation and Dynamical Switch <i>He-Xiu Xu, Fudan University, China</i>

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Tuesday, 26 July 2016	
08:00 – 08:30	Registration
08:30 – 10:00	Session 1T1: Metamaterials, Plasmonics and Metasurfaces Session Chairs: <i>Shulin Sun, Fudan University, China</i> <i>Yun Lai, Soochow University, China</i>
08:30 – 08:50	Freezing the Photothermal Convection in Two Dimensional Simple Square Nanoplasmonic Optical Lattice (Invited) <i>Yang Ya Tang, National Tsing Hua University, Taiwan</i>
08:50 – 09:10	High Efficient and Dynamically Controllable Catenary Meta-surface (Invited) <i>Xiong Li, Institute of Optics and Electronics, Chinese Academy of Science, China</i>
09:10 – 09:25	Spatial-Temporal Modulation of Free-space EM Waves Based on Dispersion Engineering of Longitudinally Coupled Spoof Surface Plasmon Polaritons <i>Jiafu Wang, Air Force Engineering University, China</i>
09:25 – 09:40	Metamaterials with Gain <i>Huanyang Chen, Soochow University, China</i>
10:00 – 10:20	Coffee & Tea Break
10:20 – 11:50	Session 1T2: Metamaterials, Plasmonics and Metasurfaces Session Chairs: <i>Tiejun Cui, Southeast University, China</i> <i>Huanyang Chen, Soochow University, China</i>
10:20 – 10:40	Biosensing Platform Based on Metamaterial and Microfluidics (Invited) <i>Zhaoxin Geng, Institute of Semiconductors, Chinese Academy of Science, China</i>
10:40 – 11:00	Well-designed quasi-3D Metal Nanostructured Array for Label-free Plasmonic Biosensing (Invited) <i>Jianhua Zhou, Sun Yat-sen University, China</i>
11:00 – 11:20	Integration of Novel Plasmonics Detection Techniques with Microfluidic Concentration Devices (Invited) <i>Shau-Chun Wang, National Chung Cheng University, Taiwan</i>
11:20 – 11:35	Wavefront Controlling by Helical Metamaterials <i>Zhenyu Yang, Huazhong University of Science and Technology, China</i>
11:35 – 11:50	An Ultracompact Polarization-encoded Quantum Controlled-NOT Gate Based on Hybrid Waveguide <i>Shuming Wang, Nanjing University, China</i>
11:50 – 13:30	Lunch & Poster Session
13:30 – 15:25	Session 1T3: Metamaterials, Plasmonics and Metasurfaces Session Chairs: <i>Din Ping Tsai, Research Center for Applied Sciences, Academia Sinica, Taiwan</i> <i>Anlian Pan, Hunan University, China</i>
13:30 – 14:00	Manipulation of Light-matter Interaction via 3D Plasmonic Nanostructures (Keynote) <i>Zhiyuan Li, Institute of Physics, Chinese Academy of Sciences, China</i>
14:00 – 14:30	Tunable Light-matter Interaction With Quantum Spillover and Super-radiance in Two Dimensional Molecular Aggregates (Keynote) <i>Nicholas Xuanlai Fang, Massachusetts Institute of Technology, USA</i>
14:30 – 14:50	Optical Trapping and Manipulation of Metal Nanowires (Invited) <i>Lianming Tong, Peking University, China</i>

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14:50 – 15:10	Molding the Spin Flow in Photonic Valley Crystals (Invited) <i>Jian-Wen Dong, Sun Yat-sen University, China</i>
15:10 – 15:25	Nano-manipulation of Spin-Orbital Angular Momentum via Visible-frequency Metasurfaces <i>Shengtao Mei, National University of Singapore, Singapore</i>
15:30 – 15:50	Coffee & Tea Break
15:50 – 18:20	Session 1T4: Metamaterials, Plasmonics and Metasurfaces Session Chairs: <i>Nicholas Xuanlai Fang, Massachusetts Institute of Technology, USA</i> <i>Jian-Wen Dong, Sun Yat-sen University, China</i>
15:50 – 16:20	3D Plasmonic Resonators for Metadevices (Keynote) <i>Din Ping Tsai, Research Center for Applied Sciences, Academia Sinica, Taiwan</i>
16:20 – 16:50	Femtosecond Laser 3D Nanoprinting for Advanced Microfluidic and Optofluidic Systems (Keynote) <i>Hong-Bo Sun, Jilin University, China</i>
16:50 – 17:10	Hybrid Holographic Multiplexing with Metasurface (Invited) <i>Lingling Huang, Beijing Institute of Technology, China</i>
17:10 – 17:30	Optical Response of Metal Nanostructures Controlled by Mode Coupling and Interference (Invited) <i>Zhichao Ruan, Zhejiang University, China</i>
17:30 – 17:50	Research Progress in Semiconductor Nanoribbon Laser (Invited) <i>Anlian Pan, Hunan University, China</i>
17:50 – 18:05	Mimicking Einstein's Ring through Emulated Curved Space in Transformation Optics <i>Chong Sheng, Nanjing University, China</i>
18:05 – 18:20	The Roles of Interband Transitions and Quantum Effects in Graphene Plasmon Excitations <i>Weihua Wang, China University of Mining and Technology, China</i>
Wednesday, 27 July 2016	
13:30 – 15:30	Session 1W1: Droplets and Emulsion Session Chairs: <i>Che-Hsin Lin, National Sun Yat-sen University, Taiwan</i> <i>Chengjun Huang, Institute of Microelectronics, CAS, China</i>
13:30 – 13:50	Self-assembly in Microfluidic Device (Invited) <i>Lingling Shui, South China Normal University, China</i>
13:50 – 14:10	Directional Droplet Motion: from Low Temperature to High Temperature (Invited) <i>Zuankai Wang, City University of Hong Kong, Hong Kong</i>
14:10 – 14:30	Single Cell Multiplexed Protease Assay Using Droplet Microfluidics (Invited) <i>Chia-Hung Chen, National University of Singapore, Singapore</i>
14:30 – 14:50	Microfluidic Droplet-based Techniques for Regenerative Medicine (Invited) <i>Huanan Wang, Dalian University of Technology, China</i>
14:50 – 15:10	Highly Sensitive SERS Based Immunoassay of the PSA Cancer Marker on Droplet Microfluidics (Invited) <i>Rongke Gao, Hefei University of Technology, China</i>
15:10 – 15:30	Convective Flow Recovery in a Pendant Droplet from Particle Image Velocimetry (Invited) <i>Fei Duan, Nanyang Technological University, Singapore</i>
15:30 – 15:50	Coffee & Tea Break

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15:50 – 18:20	Session 1W2: Particle and Cell Manipulation Session Chairs: <i>Lingling Shui, South China Normal University, China</i> <i>Hongsoo Choi, Daegu Gyeongbuk Institute of Science and Technology, Korea</i>
15:50 – 16:10	Controlled Nanoparticle Release from Stable Magnetic Microbubble Oscillations (Invited) <i>Chenjie Xu, Nanyang Technological University, Singapore</i>
16:10 – 16:30	Si Based Microfluidic Devices for Rare Cell Sorting and Detection (Invited) <i>Chengjun Huang, Institute of Microelectronics of Chinese Academy of Sciences, China</i>
16:30 – 16:50	Optically Transduced Silicon Carbide (SiC) Micromechanical Devices for Manipulating Cancer Cells in Fluids (Invited) <i>Philip Feng, Case Western Reserve University, USA</i>
16:50 – 17:10	Microfluidic Particle Manipulation using High Frequency Surface Acoustic Waves (SAW) (Invited) <i>Ye Ai, Singapore University of Technology and Design, Singapore</i>
17:10 – 17:30	Construction of Stimuli-responsive Systems for Capture and Release of Circulating Tumor Cells (Invited) <i>Weihua Huang, Wuhan University, China</i>
17:30 – 17:50	Microrobots for Particle Transportation in a Fluidic Environment (Invited) <i>Hongsoo Choi, Daegu Gyeongbuk Institute of Science and Technology (DGIST), Korea</i>
17:50 – 18:05	Flow-through Cell Transfection Utilizing Chaotic Flow and Nanoneedle Array <i>Liang Huang, Tsinghua University, China</i>
18:05 – 18:20	Fluidic Circuit Based Microfluidics Device For Deterministic Single-Cell Trapping With High Efficiency and Adaptivity <i>Dong Huang, Peking University, China</i>

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ROOM 2

Monday, 25 July 2016	
13:30 – 15:20	Session 2M1: : Advanced Cellular Imaging Session Chairs: <i>Nicholas Smith, Osaka University, Japan</i> <i>Xusan Yang, Peking University, China</i>
13:30 – 14:00	Super-resolution Fluorescence Imaging by dSTORM (Keynote) <i>Markus Sauer, Wuerzburg University, Germany</i>
14:00 – 14:20	Direct Visualization of Subcellular Dynamics at Nanometer Scale by Ultrahigh-speed Interferometric Optical Microscopy (Invited) <i>Chia-Lung Hsieh, Institute of Atomic and Molecular Sciences, Academia Sinica, Taiwan</i>
14:20 – 14:40	Localization-based Cell Microscopy by Engineering Plasmonic Nanoarrays: Limitations and Potentials (Invited) <i>Donghyun Kim, Yonsei University, Korea</i>
14:40 – 15:00	Three-dimensional Refractive-index Microscopy for Live-cell Imaging (Invited) <i>Kung-Bin Sung, National Taiwan University, Taiwan</i>
15:00 – 15:20	Mirror-enhanced Super-resolution Microscopy (Invited) <i>Peng Xi, Peking University, China</i>
15:30 – 15:50	Coffee & Tea Break
15:50 – 18:10	Session 2M2: : Advanced Cellular Imaging Session Chairs: <i>Donghyun Kim, Yonsei University, Korea</i> <i>Peng Xi, Peking University, China</i>
15:50 – 16:20	Snapshot vs Real-Time Monitoring: Toward an Understanding of Population Dynamics of Immune Cells at the Single-cell Resolution (Keynote) <i>Osamu Ohara, RIKEN Research Center for Integrative Medical Sciences, Japan</i>
16:20 – 16:40	Label-free Imaging and Analysis of Cell Type and Behaviour (Invited) <i>Nicholas Smith, Osaka University, Japan</i>
16:40 – 17:00	Shedding Light on Zebrafish Targeting Cardiovascular Research (Invited) <i>Ian Liao, National Chiao Tung University, Taiwan</i>
17:00 – 17:20	In vivo Imaging Cytometry of Leukocytes with Harmonic Generation Microscopy (Invited) <i>Tzu-Ming Liu, National Taiwan University, Taiwan</i>
17:20 – 17:40	Tunneling Nanotube Communications between Pancreatic Cancer Cells Induced by Macrophage Conditioned Medium and Electric Fields (Invited) <i>Chau-Hwang Lee and Chia-Wei Lee, Research Center for Applied Sciences, Academia Sinica, Taiwan</i>
17:40 – 17:55	Optical Super-resolution Nanoscopy Tailored for Use with Commercial Quantum Dots as Bright and Stable Labels <i>Xusan Yang, Peking University, China</i>
17:55 – 18:10	Well Plate-based Microfluidic Platform for High throughput Screening of 3D Perfused Vascularized Microtissue <i>Xiaolin Wang, Shanghai Jiaotong University, China</i>

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Tuesday, 26 July 2016	
08:00 – 08:30	Registration
08:30 – 10:00	Session 2T1: Optical Microcavity and Sensing Session Chairs: <i>Donghyun Kim, Yonsei University, Korea</i> <i>Qinghai Song, Harbin Institute of Technology, China</i>
08:30 – 09:00	Micro-cavity and Lasers in Living Cells (Keynote) <i>Seok-Hyun Andy Yun, Harvard Medical School and Massachusetts General Hospital, USA</i>
09:00 – 09:20	Optofluidic Micro-bubble Resonator Biosensors for Biomolecular Detection (Invited) <i>Xiang Wu, Fudan University, China</i>
09:20 – 09:40	Nano-optomechanical Disk Resonators Operating in Liquids (Invited) <i>Eduardo Gil-Santos, Paris Diderot University, France</i>
09:40 – 10:00	Magnetic Field Sensing using Optofluidic Ring Resonator Filled with Magnetic Fluid (Invited) <i>Lei Shi, Huazhong University of Science and Technology, China</i>
10:00 – 10:20	Coffee & Tea Break
10:20 – 11:50	Session 2T2: Optical Microcavity and Sensing Session Chairs: <i>Tao Lu, University of Victoria, Canada</i> <i>Jian-Wen Dong, Sun Yat-sen University, China</i>
10:20 – 10:40	Tunable Optofluidic Resonators Based on Emulsion Droplets of Liquid Crystals (Invited) <i>Alexandr Jonas, Istanbul Technical University, Turkey</i>
10:40 – 11:00	Coupling between Photonic Crystal Cavities and Waveguides for Ultrafast Optical Switching and Sensing (Invited) <i>Xiulai Xu, Institute of Physics, Chinese Academy of Sciences, China</i>
11:00 – 11:20	Direct Laser Writing of Tubular Optical Microcavity for On-chip Optofluidic Application (Invited) <i>Yongfeng Mei and Yonglei Li, Fudan University, China</i>
11:20 – 11:35	Tunable Microresonator for Microlasing and Sensing <i>Rui Chen, South University of Science and Technology of China, China</i>
11:35 – 11:50	Mode Conversion in A Multi-mode Tapered Fiber via WGM Cavity and Its Application in Tunable Single-longitudinal-mode Narrow-linewidth Ring Laser <i>Feng Gao, Nankai University, China</i>
11:50 – 13:30	Lunch & Poster Session
13:30 – 15:20	Session 2T3: Optical Microcavity and Sensing Session Chairs: <i>Xiulai Xu, Institute of Physics, CAS, China</i> <i>Seok-Hyun Andy Yun, Harvard Medical School and Massachusetts General Hospital, USA</i>
13:30 – 14:00	Whispering-gallery-mode Resonators and Their Applications: from Nanoscale Measurement to Directional Lasing (Keynote) <i>Lan Yang, Washington University in Saint Louis, USA</i>
14:00 – 14:20	Ultra-high Q factor Silicon Microdisks (Invited) <i>Qinghai Song, Harbin Institute of Technology, China</i>
14:20 – 14:40	Fabrication and Applications of Lithium-Niobate Microdisk Resonators (Invited) <i>Fang Bo, Nankai University, China</i>

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14:40 – 15:00	Resonance-controlled Random Lasers and Their Possible Applications (Invited) <i>Hideki Fujiwara and Keiji Sasaki, Hokkaido University, Japan</i>
15:00 – 15:20	Optical Nanosensor: Pushing Its Limits for Translational Medicine (Invited) <i>Qimin Quan, Rowland Institute at Harvard University, USA</i>
15:30 – 15:50	Coffee & Tea Break
15:50 – 18:10	Session 2T4: Optical Microcavity and Sensing Session Chairs: <i>Nicholas Xuanlai Fang, Massachusetts Institute of Technology, USA</i> <i>Fang Bo, Nankai University, China</i>
15:50 – 16:20	Colocalized Molecular Detection for Ultra-sensitive Surface Plasmon Resonance Biosensors (Keynote) <i>Donghyun Kim, Yonsei University, Korea</i>
16:20 – 16:40	Single-particle Absorption Spectroscopy with Microresonators: Fano Resonances, Attometer Sensitivity, and Working Towards Single-Molecule Spectroscopic Identification (Invited) <i>Randall Goldsmith, University of Wisconsin, Madison, USA</i>
16:40 – 17:00	Cavity Optomechanical Sensing of Single Molecules (Invited) <i>Tao Lu, University of Victoria, Canada</i>
17:00 – 17:20	Measurement of Optical Magnitude and Phase Responses with Femtometer-Level Resolution (Invited) <i>Shilong Pan, Nanjing University of Aeronautics and Astronautics, China</i>
17:20 – 17:40	On-chip Tuning of Coupled Photonic Nano Cavities (Invited) <i>Guangya Zhou, National University of Singapore, Singapore</i>
17:40 – 17:55	Dissipative Interaction for Single Nanoparticle Detection using a Whispering-gallery-type Microcavity <i>Yanyan Zhi, Peking University, China</i>
17:55 – 18:10	Silicon On-chip Nanobeam Bandstop Filters for the Parallel Multiplexing of Ultra-compact Integrated 1D Photonic Crystal Nanobeam Cavity Sensors Array <i>Daquan Yang, Beijing University of Posts and Telecommunications, China</i>
Wednesday, 27 July 2016	
13:30 – 15:30	Session 2W1: Optofluidic Imaging Session Chairs: <i>Kevin Tsai, The University of Hong Kong, Hong Kong</i> <i>Yi Yang, Wuhan University, China</i>
13:30 – 13:50	Machine-learning Enhanced Single-frame Super-resolution for Lensless Microfluidic Imaging (Invited) <i>Hao Yu, Nanyang Technological University, Singapore</i>
13:50 – 14:10	Liquid-filled Elastic Plano-convex Lens with Focal Length Tuning (Invited) <i>Dawei Zhang, University of Shanghai for Science and Technology, China</i>
14:10 – 14:30	Optical Digital Coherent Detection Technology Enabled Flexible and Ultra-fast Quantitative Phase Imaging (Invited) <i>Zhaohui Li, Jinan University, China</i>
14:30 – 14:50	Enhanced Light Extraction from UV LEDs using Liquid Glass Microlenses (Invited) <i>Guo-Dung Su, National Taiwan University, Taiwan</i>
14:50 – 15:10	Performance Enhancement of Surface Enhanced Raman Scattering by Laser Micro/Nano-processing (Invited) <i>Minghui Hong, National University of Singapore, Singapore</i>
15:10 – 15:30	Trapping White Cells in Paper for White Blood Cell Count (Invited)

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	<i>Yi Zhang, Institute of Bioengineering and Nanotechnology, Agency of Science Technology and Research, Singapore</i>
15:30 – 15:50	Coffee & Tea Break
15:50 – 18:30	Session 2W2: Optofluidic Imaging Session Chairs: <i>Guo-Dung Su, National Taiwan University, Taiwan</i> <i>Zhenchuan Yang, Peking University, China</i>
15:50 – 16:10	Cancer Cell Membrane-Cloaked Upconversion Nanoprobes for High Specific Tumor Imaging (Invited) <i>Wei Liu, Wuhan University, China</i>
16:10 – 16:30	What's Next for Ultrafast Time-Stretch Imaging? (Invited) <i>Kevin Tsia, The University of Hong Kong, Hong Kong</i>
16:30 – 16:50	SDOM (Super-resolution Polarization Demodulation with Orientation Mapping) and Its Potential Applications in Septin and 3D Genome (Invited) <i>Juntao Gao, Tsinghua University, China</i>
16:50 – 17:10	Simultaneous Use of Electrical Impedance Spectroscopy and Confocal Imaging to Record the Cell Cycle of Single Immobilized <i>S. Pombe</i> Cells (Invited) <i>Zhen Zhu, Southeast University, China</i>
17:10 – 17:30	Biosensor and Imaging Technologies using Consumer Electronics (Invited) <i>Chulmin Joo, Yonsei University, Korea</i>
17:30 – 17:50	Intraoperative Optical Coherence Tomography (Invited) <i>Yong Huang, Beijing Institute of Technology, China</i>
17:50 – 18:10	An Optofluidic Device for Tunable Optical Limiting Property (Invited) <i>Bo Dai, University of Shanghai for Science and Technology, China</i>
18:10 – 18:30	Seeing and Manipulating Live Cells in Microfluidic (Invited) <i>Bi-Chang Chen, Research Center for Applied Science, Academia Sinica, Taiwan</i>

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ROOM 3

Monday, 25 July 2016	
13:30 – 15:20	<p style="text-align: center;">Session 3M1: Cost-effective Microfluidic Devices for Bioanalysis Session Chairs: <i>Xinyu Liu, McGill University, Canada</i> <i>Yuejun Kang, Southwest University, China</i></p>
13:30 – 14:00	<p>With Office Equipment and Paper to Low-Cost Analytical Devices (Keynote) <i>Daniel Citterio, Keio University, Japan</i></p>
14:00 – 14:20	<p>Low-cost, Rapid Fabrication of Microfluidic Devices for Biomedical Applications (Invited) <i>Michinao Hashimoto, Singapore University of Technology and Design, Singapore</i></p>
14:20 – 14:40	<p>Fabrication Techniques for Polymer Microfluidic Chips (Invited) <i>Junshan Liu, Dalian University of Technology, China</i></p>
14:40 – 15:00	<p>Surface Engineering of Polydimethylsiloxane for Cells-on-a-Chip (Invited) <i>Yuejun Kang, Southwest University, China</i></p>
15:00 – 15:20	<p>Low-cost Fabrication of 3-D Electrodes for Dielectrophoresis Applications (Invited) <i>Wenhui Wang, Tsinghua University, China</i></p>
15:30 – 15:50	Coffee & Tea Break
15:50 – 18:20	<p style="text-align: center;">Session 3M2: Cost-effective Microfluidic Devices for Bioanalysis Session Chairs: <i>Jesse Greener, Laval University, Canada</i> <i>Wenhui Wang, Tsinghua University, China</i></p>
15:50 – 16:20	<p>Paper Based Molecular Test for HPV Infection (Keynote) <i>Catherine Klapperich, Boston University, USA</i></p>
16:20 – 16:50	<p>Engineering of 3D Cell Microenvironment and Its Biomedical Applications (Keynote) <i>Feng Xu, Xi'an Jiaotong University, China</i></p>
16:50 – 17:10	<p>Multiplexed Detection Based on the Single Cells Array (Invited) <i>Dahai Ren, Tsinghua University, China</i></p>
17:10 – 17:30	<p><i>In-vitro</i> Diagnostic Tools for Detecting VEGF and Exosomes in Aqueous Humor (Invited) <i>Min-Yen Hsu, National Tsing Hua University, Taiwan</i></p>
17:30 – 17:50	<p>Paper-Based Microfluidic Nano-Biosensors (Invited) <i>Xinyu Liu, McGill University, Canada</i></p>
17:50 – 18:05	<p>Sub-microliter Finger-prick Blood Samples for Blood Typing by a Smart Phone <i>Fu-Min Wang, National Taiwan University, Taiwan</i></p>
18:05 – 18:20	<p>Dynamics of Analytes in A Paper-based Ion Concentration Polarization Device as A Convection-free Platform <i>Seok Young Son, Seoul National University, Korea</i></p>
Tuesday, 26 July 2016	
08:00 – 08:30	Registration
08:30 – 10:00	<p style="text-align: center;">Session 3T1: Sea-on-a-chip and Water Session Chairs: <i>Bo Ma, Qingdao Institute of Bioenergy and Bioprocess Technology, CAS, China</i> <i>Paul Maguire, University of Ulster, UK</i></p>
08:30 – 09:00	<p>Real Time Monitoring of SEA Contaminants by an Autonomous Lab-on-a-chip</p>

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	<p>Biosensor - Progress Results of the EU funded Project SEA-on-a-CHIP (Keynote) <i>Damia Barcelo, Institute of Environmental Assessment and Water Studies IDAEA-CSIC, Catalan Institute of Water Research (ICRA), Spain</i></p>
09:00 – 09:20	<p>Microfabricated Microbial Fuel Cell Arrays for Environmental Microorganism Screening and Nanomaterial-cell Interface Studies (Invited) <i>Huijie Hou, Huazhong University of Science and Technology, China</i></p>
09:20 – 09:40	<p>Fiber Optic Seismometer and Magnetometer in Ocean Bottom Observation (Invited) <i>Wentao Zhang, Institute of Semiconductors, Chinese Academy of Sciences, China</i></p>
09:40 – 10:00	<p>Miniature CT-DO Sensors to Measure the Ocean (Invited) <i>Xi Huang, Institute of Computing Technology, Chinese Academy of Sciences, China</i></p>
10:00 – 10:20	Coffee & Tea Break
10:20 – 11:50	<p>Session 3T2: Sea-on-a-chip and Water Session Chairs: <i>Shanhong Xia, Institute of Electronics, Chinese Academy of Sciences, China</i> <i>Dong-Pyo Kim, Pohang University of Science and Technology, Korea</i></p>
10:20 – 10:50	<p>The Development of Evanescent Wave Multi-channel Biosensor for the Detection of Bio-toxics in Water Environment (Keynote) <i>Han-Chang Shi, Tsinghua University, China</i></p>
10:50 – 11:10	<p>Based on Molecular Imprinting and SERS Technique Microfluidic Chip for the Detection of Environmental Pollutants (Invited) <i>Bowei Li, Yantai Institute of Coastal Zone Research, Chinese Academy of Sciences, China</i></p>
11:10 – 11:30	<p>Facile Fabrication of Cotton Fiber Hydrogel for Removal of Heavy Metal Ions in Industrial Waste Water (Invited) <i>Qidan Chen, Jilin University, China</i></p>
11:30 – 11:50	<p>A Wireless Sensor Network System for Lake Water Quality Monitoring (Invited) <i>Sang-Seok Lee, Tottori University, Japan</i></p>
11:50 – 13:30	Lunch & Poster Session
13:30 – 15:20	<p>Session 3T3: Cost-effective Microfluidic Devices for Bioanalysis Session Chairs: <i>Michinao Hashimoto, Singapore University of Technology and Design, Singapore</i> <i>Peng Liu, Tsinghua University, China</i></p>
13:30 – 14:00	<p>Barcoded Microchips and Paper-based Chips for Multiplexed Assays (Keynote) <i>Xingyu Jiang, National Center for Nanoscience and Technology, China</i></p>
14:00 – 14:20	<p>New Approaches to <i>in situ</i> Chemical Imaging for Microfluidics (Invited) <i>Jesse Greener, Laval University, Canada</i></p>
14:20 – 14:40	<p>High-throughput Superhydrophobic Microwell Arrays for Investigating Multifactorial Stem Cell Niches (Invited) <i>Peng Liu, Tsinghua University, China</i></p>
14:40 – 15:00	<p>Digital Microfluidic Electrochemical Bioassays (Invited) <i>Mohtashim Shamsi, Southern Illinois University Carbondale, USA</i></p>
15:00 – 15:20	<p>Ion Selective Film Based Micro Sensor for Trace Ions Determination using Anodic Stripping Voltammetry (ASV) (Invited) <i>Gaoshan Jing, Tsinghua University, China</i></p>
15:30 – 15:50	Coffee & Tea Break

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15:50 – 18:20	Session 3T4: Cost-effective Microfluidic Devices for Bioanalysis Session Chairs: <i>Daniel Citterio, Keio University, Japan</i> <i>Chaoyong Yang, Xiamen University, China</i>
15:50 – 16:20	Microfluidic Devices with Target Responsive Aptamer-crosslinked Hydrogel for Visual Quantitative Point-of-Care Testing (Keynote) <i>Chaoyong Yang, Xiamen University, China</i>
16:20 – 16:40	Microfluidic Elasto-Filtration (MEF) Chip to Capture Circulating Tumor Cells toward Personalized Cancer Diagnosis (Invited) <i>Yi-Kuen Lee, Hong Kong University of Science and Technology, Hong Kong</i>
16:40 – 17:00	Paper-based Analytical Device for Diagnosis of Chronic Kidney Disease (Invited) <i>Cheng-Hsin Chuang, Southern Taiwan University of Science and Technology, Taiwan</i>
17:00 – 17:20	Pervasive Molecular Biology: Ultrafast and Low Cost PCR Amplification for DNA Diagnostics at the Point of Need (Invited) <i>Eric Yap, Nanyang Technological University, Singapore</i>
17:20 – 17:40	Dual-Color Upconversion Nanoparticles Based Multiplexed Lateral Flow Strip for Diagnosis and Prognosis of Heart Failure (Invited) <i>Min Lin, Xi'an Jiaotong University, China</i>
17:40 – 18:00	Behavior of a Water Drop Moving Inside Parallel Plates (Invited) <i>Liguo Chen, Soochow University, China</i>
18:00 – 18:20	Microfluidics Assisted Construction of Stem Cell Laden Photo-crosslinkable Microspheres for Rapid Generation of Osteogenic Tissue Constructs (Invited) <i>Xin Zhao, Xi'an Jiaotong University, China</i>
Wednesday, 27 July 2016	
13:30 – 15:30	Session 3W1: Sea-on-a-chip and Water Session Chairs: <i>Han-Chang Shi, Tsinghua University, China</i> <i>Damia Barcelo, Institute of Environmental Assessment and Water Studies IDAEA-CSIC, Catalan Institute of Water Research (ICRA), Spain</i>
13:30 – 14:00	Integrated Microfluidic Platforms of Microalgal Biomass Process (Keynote) <i>Dong-Pyo Kim, Pohang University of Science and Technology, Korea</i>
14:00 – 14:30	Microsensors and Microfluidic Chips for Water Pollution Detection (Keynote) <i>Shanhong Xia, Institute of Electronics, Chinese Academy of Sciences, China</i>
14:30 – 14:50	High-throughput Raman Activated Droplet Sorting (RADS) for Microalgae Screening (Invited) <i>Bo Ma, Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences, China</i>
14:50 – 15:10	Development of Electrochemical Immunochromatography for Steroid Hormone (Invited) <i>Wataru Iwasaki, National Institute of Advanced Industrial Science and Technology, Japan</i>
15:10 – 15:30	Water Purification using Nano-electrokinetic Phenomenon (Invited) <i>Sung Jae Kim, Seoul National University, Korea</i>
15:30 – 15:50	Coffee & Tea Break

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15:50 – 18:20	Session 3W2: Sea-on-a-chip and Water Session Chairs: <i>Wataru Iwasaki, National Institute of Advanced Industrial Science and Technology, Japan</i> <i>Xi Huang, Institute of Computing Technology, CAS, China</i>
15:50 – 16:20	Harsh Environment Microfluidics: the Potential of Ocean Lab-on-Chip for Remote Float-based Chemical Sampling and Analysis (Keynote) <i>Paul Maguire, University of Ulster, UK</i>
16:20 – 16:40	Input Characteristics, Quality Detection and Prevention of Ballast Water in China's Offshore Entry Ships (Invited) <i>Kaiying Liu, Dalian Maritime University, China</i>
16:40 – 17:00	The Development of Micro-machined Based Electrochemical Vibration Sensor (Invited) <i>Junbo Wang, Institute of Electronics, Chinese Academy of Sciences, China</i>
17:00 – 17:20	DEP Micro Devices for Manipulation of Micro-particles using 3D Printing Fabrication Technology (Invited) <i>Hejun Du, Nanyang Technological University, Singapore</i>
17:20 – 17:40	Integrated Microfluidic Systems with Multiple Actuators (Invited) <i>Paolo Minzioni, University of Pavia, Italy</i>
17:40 – 18:00	Surface Plasmon Resonance Measurement in Microfluidic Device Utilizing Total Internal Reflection Microscope Configuration (Invited) <i>Che-Hsin Lin, National Sun Yat-sen University, Taiwan</i>
18:00 – 18:20	High-throughput Microbial Pre-concentration for Water Monitoring (Invited) <i>Sha Xiong, Nanyang Technological University, Singapore</i>

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ROOM 4

Monday, 25 July 2016	
13:30 – 15:30	Session 4M1: Editors talk to Authors Session Chairs: <i>Ai-Qun Liu, Nanyang Technological University, Singapore</i> <i>Yu Sun, University of Toronto, Canada</i>
13:30 – 13:50	The First Engineering Journal from Nature Publishing Group: Microsystems & Nanoengineering (Invited) <i>Tianhong Cui, Microsystems & Nanoengineering</i>
13:50 – 14:10	Micromachines Beyond Silicon-based Technologies (Invited) <i>Nam-Trung Nguyen, Micromachines</i>
14:10 – 14:30	The Editorial Processes at Nature Communications (Invited) <i>Lina Persechini, Nature Communications</i>
14:30 – 14:50	Publishing in Sensors & Actuators (Invited) <i>Paddy French, Sensors and Actuators A: Physical</i>
14:50 – 15:10	Scientific Publishing (Invited) <i>Leanne Mullen, Journal of Micromechanics and Microengineering</i>
15:10 – 15:30	Panel Discussion
15:30 – 15:50	Coffee & Tea Break
15:50 – 18:20	Session 4M2: Implantable Micro/Nano Devices and Interfaces Session Chairs: <i>Yuki Hayashida, Osaka University, Japan</i> <i>Jingquan Liu, Shanghai Jiao Tong University, China</i>
16:20 – 16:40	Ultraflexible Microbubble Blood Pressure Sensor for Coronary Disease (Keynote) <i>Jingquan Liu, Shanghai Jiao Tong University, China</i>
16:40 – 17:00	Implantable Flexible Micro/Nano-electrode Arrays for Visual Prosthesis (Invited) <i>Gang Li, Chongqing University, China</i>
17:00 – 17:20	Smart Biomaterials Design for Multifunctional Medical Devices (Invited) <i>Xuemin Du, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China</i>
17:20 – 17:40	Integrating Light Device and Neural-probe Together for Optogenetics (Invited) <i>Weihua Pei, Institute of Semiconductor, Chinese Academy of Sciences, China</i>
16:20 – 16:40	A Hermetical Full Si System-in-Package for Applications to Implanted High Density Bio-electronic Module (Invited) <i>Shenglin Ma, Xiamen University, China</i>
17:40 – 18:00	Surface Modification of Neural Stimulating/Recording Electrodes with High-Performance Platinum-pillar Coatings <i>Kai Xia, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China</i>
18:00 – 18:20	Measurement and Fabrication of 128-Channel Flexible Microelectrodes Array <i>Bin Sun, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China</i>
Tuesday, 26 July 2016	
08:00 – 08:30	Registration
08:30 – 10:00	Session 4T1: Fiber-based Optofluidics Session Chairs: <i>Li-Min Xiao, Fudan University, China</i> <i>Noel Healy, Newcastle University, UK</i>

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08:30 – 09:00	Photonic Microcells for High Sensitivity Microfluidic Gas and Liquid Sensors (Keynote) <i>Wei Jin, The Hong Kong Polytechnic University, Hong Kong</i>
09:00 – 09:20	Flexible Photonic Microcells for Fiber-integrated Optofluidic Applications (Invited) <i>Chao Wang, Wuhan University, China</i>
09:20 – 09:40	Miniaturized Optical Microfiber Microfluidic Devices (Invited) <i>Fei Xu, Nanjing University, China</i>
09:40 – 10:00	Fiber Gas Laser (Invited) <i>Zefeng Wang, National University of Defense Technology, China</i>
10:00 – 10:20	Coffee & Tea Break
10:20 – 11:50	Session 4T2: Fiber-based Optofluidics Session Chairs: <i>Lei Wei, Nanyang Technological University, Singapore</i> <i>Fei Xu, Nanjing University, China</i>
10:20 – 10:50	Liquid Nanowires in Fibers – A Base for New Nonlinear Phenomena and Single Nanoobject Detection (Keynote) <i>Markus A. Schmidt, Leibniz Institute of Photonic Technology, Germany</i>
10:50 – 11:10	Microstructured Optical Fibers with “Smart” Micro-holes for Optofluidic Applications (Invited) <i>Li-Min Xiao, Fudan University, China</i>
11:10 – 11:30	Semiconductor Optical Fibers – Optofluidics? (Invited) <i>Noel Healy, Newcastle University, UK</i>
11:30 – 11:50	Magneto-optofluidics for Fiber-based Sensing Applications (Invited) <i>Shengli Pu, University of Shanghai for Science and Technology, China</i>
11:50 – 13:30	Lunch & Poster Session
13:30 – 15:30	Session 4T3: Chronic Implanted Biomedical Systems Session Chairs: <i>Tianzhun Wu, Shenzhen Institutes of Advanced Technology, CAS, China</i> <i>Yuki Hayashida, Osaka University, Japan</i>
13:30 – 14:00	Chronic Neural Interfaces Enabled by Polymer MEMS (Keynote) <i>Ellis Meng, University of South California, USA</i>
14:00 – 14:30	High-resolution Artificial Retina Project in SIAT-CAS (Keynote) <i>Tianzhun Wu, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China</i>
14:30 – 14:50	Research on Imbedded Intraocular Pressure Monitor and Micro-drainage Combined Instrument for Glaucoma (Invited) <i>Lejin Wang, Peking University People’s Hospital, China</i>
14:50 – 15:10	Implantable Neural Stimulation Devices and New Technologies of Neurotron Biotechnology Inc. (Invited) <i>Xiaoan Sun, Neurotron Neural Stimulation Research Institute, China</i>
15:10 – 15:30	Visual Functions Restored by Two Generations of the Argus Retinal Prostheses (Invited) <i>Lan Yue, University of Southern California, USA</i>
15:30 – 15:50	Coffee & Tea Break
15:50 – 18:20	Session 4T4: Neural Stimulation and Recording Session Chairs:

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	<i>Ellis Meng, University of South California, USA Tianzhun Wu, Shenzhen Institutes of Advanced Technology, CAS, China</i>
15:50 – 16:20	Imaging Studies on Visual Cortical Responses to Microstimulation in Rodents, and Prototyping the Prosthetic Device for Animals (Keynote) <i>Yuki Hayashida, Osaka University, Japan</i>
16:20 – 16:40	Connecting the Retina with Electrical Currents (Invited) <i>Guoxing Wang, Shanghai Jiao Tong University, China</i>
16:40 – 17:00	Human-Machine-Interface: A Bridge to the Brain (Invited) <i>Milin Zhang, Tsinghua University, China</i>
17:00 – 17:20	Challenges and Opportunities in Vision Restoration (Invited) <i>Bo Peng, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China</i>
17:20 – 17:40	Towards A Less-invasive Wide-field Retinal Prosthesis (Invited) <i>Yi Zhang, University of South California, USA</i>
17:40 – 18:00	Micro Electrode Array for Subdiaphragmatic Splanchnic Nerves (Invited) <i>Yufei Liu, Chongqing University, China</i>
18:00 – 18:20	Temporal-spatial Neuromodulation of Retinal Cells by Low-frequency Focused Ultrasound (Invited) <i>Weibao Qiu, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China</i>
Wednesday, 27 July 2016	
	Session 4W1: Fiber-based Optofluidics Session Chairs: <i>Noel Healy, Newcastle University, UK Markus A. Schmidt, Leibniz Institute of Photonic Technology, Germany</i>
13:30 – 15:30	
13:30 – 13:50	Plasmonic Fiber Optic Biochemical Sensors (Invited) <i>Tuan Guo, Jinan University, China</i>
13:50 – 14:10	Filling-based Photonic Crystal Fiber Devices and Sensors (Invited) <i>Chun-Liu Zhao, China Jiliang University, China</i>
14:10 – 14:30	Chemical Reaction in Fiber Draw (Invited) <i>Chong Hou, Massachusetts Institute of Technology, USA</i>
14:30 – 14:50	Optofluidic Fiber Sensors Induced by Femtosecond Laser Micromachining (Invited) <i>Changrui Liao, Shenzhen University, China</i>
14:50 – 15:10	Recent Development of Multimaterial Multifunctional Fibers (Invited) <i>Lei Wei, Nanyang Technological University, Singapore</i>
15:10 – 15:25	Microfluidic-guided Solar Indoor Lighting System <i>Sung-Yong Park, National University of Singapore, Singapore</i>
15:30 – 15:50	Coffee & Tea Break
	Session 4W2: Fiber-based Optofluidics Session Chairs: <i>Markus A. Schmidt, Leibniz Institute of Photonic Technology, Germany Li-Min Xiao, Fudan University, China</i>
15:50 – 18:20	
15:50 – 16:20	Microfiber Optics for Optofluidic Sensing (Keynote) <i>Limin Tong, Zhejiang University, China</i>
16:20 – 16:40	Microfiber-based Optofluidic Sensors (Invited) <i>Long Jin, Jinan University, China</i>

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16:40 – 17:00	Optical Fiber Based Optofluidic Manipulation of Single Microparticle and Its Sensing Application (Invited) <i>Yuan Gong, University of Electronic Science and Technology of China, China</i>
17:00 – 17:20	Reconfigurable Optical Waveguide Multi-analyte System for River Water Pollution Monitoring (Invited) <i>Ping Hua, University of Southampton, UK</i>
17:20 – 17:40	Fiber Based Tunable Optofluidic System for Neural Cell Studies (Invited) <i>Yan Chen, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China</i>
17:40 – 18:00	High Precision Optofluidic Imaging and Nanoparticles Manipulation (Invited) <i>Yi Yang, Wuhan University, China</i>

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ROOM 5

Monday, 25 July 2016	
13:30 – 15:30	Session 5M1: Microfluidics Session Chairs: <i>Yong Zhang, National University of Singapore, Singapore</i> <i>Junbo Wang, Institute of Electronics, Chinese Academy of Sciences, China</i>
13:30 – 13:50	Light-driven Merging of Microdroplets at the Microscale (Invited) <i>Abed Abdel El, Paris Saclay University, France</i>
13:50 – 14:10	Microfabricated Surfaces with Special Wettability for Planar Droplet Manipulation (Invited) <i>Zhiwei Wang, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China</i>
14:10 – 14:30	Photoelectric Measurement of Flow Fluctuations and Velocity in Microfluidic Tube (Invited) <i>Xueyong Wei, Xi'An Jiaotong University, China</i>
14:30 – 14:50	Nature Inspired Microchannels Improves the Efficiency of Planar-reactors (Invited) <i>Weixing Yu, Xi'an Institute of Optics and Precision Mechanics, Chinese Academy of Sciences, China</i>
14:50 – 15:10	Electrofluidic Pressure Sensor Embedded Microfluidic Devices for Biomedical Applications (Invited) <i>Yi-Chung Tung, Research Center for Applied Sciences, Academia Sinica, Taiwan</i>
15:10 – 15:30	Efficient SNP Discovery using Microarray and Bead-based Microfluidic Technology for Selective Breeding (Invited) <i>Yen-Wen Lu, National Taiwan University, Taiwan</i>
15:30 – 15:50	Coffee & Tea Break
15:50 – 18:20	Session 5M2: Opto-/Nano-fluidics Session Chairs: <i>Abed Abdel El, Paris Saclay University, France</i> <i>Hong-Bo Sun, Jilin University, China</i>
15:50 – 16:10	Review on Holographic Display and Future Research Trade (Invited) <i>Juan Liu, Beijing Institute of Technology, China</i>
16:10 – 16:30	A Passive Inertial Switch using MWCNT-hydrogel Composite with Wireless Interrogation Capability (Invited) <i>Yao-Joe Yang, National Taiwan University, Taiwan</i>
16:30 – 16:50	IR Laser Photothermally Induced Phase Change Behaviors (Invited) <i>Rong Chen, Chongqing University, China</i>
16:50 – 17:10	Nanoimprint for Micro- and Nanofluidic Applications (Invited) <i>Xing Cheng, Southern University of Science and Technology, China</i>
17:10 – 17:30	The Entrance Effect of Nanofluidic Ion Transport (Invited) <i>Yanbo Xie, Northwestern Polytechnical University, China</i>
17:30 – 17:50	Active Regulation of Femtoliter-scale Fluids in Nanochannel by Nano-in-Nano Technology (Invited) <i>Yan Xu, Osaka Prefecture University, Japan</i>

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17:50 – 18:05	Near Wall Nanovelocimetry Based on Total Internal Reflection Fluorescence with Continuous Tracking (Invited) <i>Zhenzhen Li, Shanghai Jiao Tong University, China</i>
18:05 – 18:20	Carbon Nanostructure Based Mechano-nanofluidics <i>Ming Ma, Tsinghua University, China</i>
Tuesday, 26 July 2016	
08:00 – 08:30	Registration
08:30 – 10:00	Session 5T1: Materials and Modification Session Chairs: <i>Philip Feng, Case Western Reserve University, USA</i> <i>Zuankai Wang, City University of Hong Kong, Hong Kong</i>
08:30 – 08:50	New Material Functions Obtained by a Mass Productive Method for Microfabricating High-Melting-Point Thermoplastics (Invited) <i>Kangning Ren, Hong Kong Baptist University, Hong Kong</i>
08:50 – 09:10	Capability Development on Laser Surface Texturing of Metallic Substrates (Invited) <i>Yingchun Guan, Beihang University, China</i>
09:10 – 09:30	Development of Integrated Microfluidic System for Mechanical Property Measurement of Fluid-Soft Material Interface; Numerical Optimization (Invited) <i>Joon Sang Lee, Yonsei University, Korea</i>
09:30 – 09:50	UV-assisted Microfluidic Generation of Multiferroic Particles (Invited) <i>Shishang Guo, Wuhan University, China</i>
10:00 – 10:20	Coffee & Tea Break
10:20 – 11:50	Session 5T2: Wearable and Implantable Devices Session Chairs: <i>Shih-Kang Fan, National Taiwan University, Taiwan</i> <i>Rong Zhu, Tsinghua University, China</i>
10:20 – 10:40	Functionalized Microfluidic System by Inkjet-printed Flexible Biosensors for Continuous Glucose Monitoring (Invited) <i>Dachao Li, Tianjing University, China</i>
10:40 – 11:00	Flexible Thermal-based Sensor and Its Wearable Applications (Invited) <i>Rong Zhu, Tsinghua University, China</i>
11:00 – 11:20	A Microfluidic Based Self-adhered Skin Smart Patch (Invited) <i>Zhigang Wu, Huazhong University of Science and Technology, China</i>
11:20 – 11:35	A Stretchable 3D Parylene Cuff Electrode with Garland Structure <i>Xiaoxue Yu, Peking University, China</i>
11:35 – 11:50	In-plane Electric Field Induced G peak Splitting of Single Layer Graphene <i>Yingdong Xiao, Peking University, China</i>
11:20 – 13:30	Lunch & Poster Session
13:30 – 15:30	Session 5T3: Energy and Environment Session Chairs: <i>Haixia Zhang, Peking University, China</i> <i>Sang-Seok Lee, Tottori University, Japan</i>
13:30 – 13:50	Optofluidic Photocatalysis Driving Up the Conversion of Solar Energy into Chemical Energy (Invited) <i>Xuming Zhang, Hong Kong Polytechnic University, Hong Kong</i>
13:50 – 14:10	Micro Energy Harvesting from Ambient Environment (Invited) <i>Fei Wang, Southern University of Science and Technology, China</i>

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14:10 – 14:30	Optofluidic Devices for Bio and Energy Applications (Invited) <i>Sung-Yong Park, National University of Singapore, Singapore</i>
14:30 – 14:50	Direct Ethanol Fuel Cells: A Sustainable Energy Technology (Invited) <i>Liang An, The Hong Kong Polytechnic University, Hong Kong</i>
14:50 – 15:10	Development of Microchannel Reactor with Porous Metal Fiber Sintered Felt as Catalyst Support for Hydrogen Production (Invited) <i>Wei Zhou, Xiamen University, China</i>
15:10 – 15:30	Microfluidic Nanoliter Scale Photo Bioreactor for Cyanobacteria (Invited) <i>Ya-Tang Yang, National Tsing Hua University, Taiwan</i>
15:30 – 15:50	Coffee & Tea Break
15:50 – 18:20	Session 5T4: Microfabrication and Integration Session Chairs: <i>Xuming Zhang, Hong Kong Polytechnic University, Hong Kong</i> <i>Xiaomei Yu, Peking University, China</i>
15:50 – 16:20	Shrink Polymer M/NEMS: Manufacturing from Micro to Nano (Keynote) <i>Tianhong Cui, University of Minnesota, USA</i>
16:20 – 16:40	Printing Technologies for the Industrialization of Electrofluidic Displays (Invited) <i>Biao Tang, South China Normal University, China</i>
16:40 – 17:00	Diversiform Nanoforests: Fabrication, Characterization and Applications (Invited) <i>Haiyang Mao, Institute of Microelectronics of Chinese Academy of Sciences, China</i>
17:00 – 17:20	The Method for Fabricating Structures with Three-dimension Profile during One Exposure Process (Invited) <i>Lifang Shi, Institute of Optics and Electronics, Chinese Academy of Sciences, China</i>
17:20 – 17:40	Novel Bonding Method for Thermoplastic Microfluidic Chips (Invited) <i>Pin-Chuan Chen, National Taiwan University of Science and Technology, Taiwan</i>
17:40 – 18:00	Patterning Perfluorinated Surfaces and the Applications (Invited) <i>Bo Zheng, The Chinese University of Hong Kong, Hong Kong</i>
18:00 – 18:20	Micro Injection Molding for Applications in Optofluidics (Invited) <i>Yexian Wu, Hicomp MiroTech Co. Ltd., China</i>
Wednesday, 27 July 2016	
13:30 – 15:30	Session 5W1: Biochemical Sensors Session Chairs: <i>Yilong Hao, Peking University, China</i> <i>Sha Xiong, Nanyang Technological University</i>
13:30 – 13:50	Parallel Detection of Biomolecular Interactions by Label-free Method using Multi Optical Probes with Optical Modulation and Multi-scale Microwell Arrays (Invited) <i>Shinill Kang, Yonsei University, Korea</i>
13:50 – 14:10	Optofluidic Refractive Index Sensor Based on Resonant Optical Tunneling Effect (Invited) <i>Aoqun Jian, Taiyuan University of Technology, China</i>
14:10 – 14:30	Self-assembled Protein Nanostructure for Highly Sensitive Biosensing (Invited) <i>Dong Men, Wuhan Institute of Virology, Chinese Academy of Sciences, China</i>

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14:30 – 14:50	"Lab-in-a-Tip" — Hydrogel-based Optical Biosensing Micosystem for Rapid Detection of Bioanalytes <i>Dieter Trau, National University of Singapore, Singapore</i>
14:50 – 15:10	Optical Biosensor by Silicon Based OEIC Platform (Invited) <i>Junfeng Song, Jilin University, China</i>
15:10 – 15:25	Detection of Matrilysin Activity using Silicon Nanophotonic Ring Resonator <i>Xueling Feng, Nanyang Technological University, Singapore</i>
15:30 – 15:50	Coffee & Tea Break
15:50 – 18:25	Session 5W2: Cell Mechanics and Analysis Session Chairs: <i>Dachao Li, Tianjing University, China</i> <i>Junshan Liu, Dalian University of Technology, China</i>
15:50 – 16:10	To Measure the Temperature Distribution of Live Cells (Invited) <i>Shengyong Xu, Peking University, China</i>
16:10 – 16:30	Microfluidic Platforms Enabling Single-Cell Electrical Property Characterization (Invited) <i>Jian Chen, Institute of Electronics, Chinese Academy of Sciences, China</i>
16:30 – 16:50	Microfluidic Biochip Technology for Biological Cell Research (Invited) <i>Min-Hsien Wu, Chang Gung University, Taiwan</i>
16:50 – 17:10	Organization of the Cytoskeleton Structure under Mechanical Stimulation (Invited) <i>Hyungsuk Lee, Yonsei University, Korea</i>
17:10 – 17:30	Left-right Asymmetry in Cell Mechanics (Invited) <i>Ting-Hsuan Chen, City University of Hong Kong, Hong Kong</i>
17:30 – 17:50	Microchip for Axon Growth Analysis (Invited) <i>Jaewon Park, Southern University of Science and Technology, China</i>
17:50 – 18:10	Microfluidic Chips towards Exosomes for Biomedical Applications (Invited) <i>Bifeng Liu, Huazhong University of Science and Technology, China</i>
18:10 – 18:25	Cellular Torque with Left-right Bias Measured by Rotating Nanowires <i>Wei Liu, City University of Hong Kong, Hong Kong</i>