

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

Poster Session I, Monday 25 July

Poster ID	Title	Corresponding Author	Institution	Country/Region	Abstract ID
P-001	Highly Focused Acoustic Fields for Single Particle Level Manipulation	David Collins, Ye Ai	Singapore University of Technology and Design	Singapore	S1-0002
P-002	Simple and Non-destructive Method to Characterize Optical Beam Property and Fluid Viscosity in an Optofluidic Chip	Tie Yang	Dip. Ingegneria Industriale e dell'Informazione, Università di Pavia	Italy	S1-0003
P-003	Massively Parallel Manipulation of Cells for Drug Delivery using Artificial Acoustic Field	Feiyan Cai	Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences	China	S1-0005
P-004	Shape Effect on the Two-layer Structure Fabrication	Lingling Shui	South China Normal University	China	S1-0007
P-005	PDMS-PDMS Based Microfluidic Device by SU-8 Mold Master for Biological Application	Fei Wang	Southern University of Science and Technology	China	S1-0012
P-006	Visualization and Measurement of Laser-induced Thermocapillary Flow in a Liquid Drop	Ho-Young Kim	Seoul National University	Korea	S1-0016
P-007	Enhanced Continuous Particle Focusing and Separation with a Prealign of Particle in Soft Inertial Microfluidics	Zhigang Wu	Huazhong University of Science and Technology	China	S1-0019
P-008	Tuning the Geometric Sensitivity of Microfluidic Electrical Impedance Spectroscopy from 1D to 3D	Zhen Zhu	Southeast University	China	S1-0025
P-009	Observation of Formation of a Single Bubble in Microfluidic Structures for the Research on Bubble Dynamics under Ultrasound	Haixia Yu	Tianjin University	China	S1-0028
P-010	Tunable Focal Pattern of Linearly Polarized Lorentz-Gaussian Beam with Complex Wavefront Modulation	Xiumin Gao	Hangzhou Dianzi University	China	S2-0006

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P-011	A Novel Defect Location Detection Method for Graphene: An Electroluminescence Approach	Chengchen Gao	Institute of Microelectronics, Peking University	China	S2-0009
P-012	Integration of Nanofluidic Preconcentrator with Oscillating Bubble Valves for Biomarker Detection	Horn-Jiunn Sheen	National Taiwan University	Taiwan	S4-0003
P-013	Optofluidic Refractive Index Sensor Based on Partial Reflection	Lei Zhang	Zhejiang University	China	S4-0004
P-014	A Novel Approach of Divalent Mercury Ions Detection with Melt Curve Features	Wei Wang	Peking University	China	S4-0006
P-015	A Microfluidic-integrated Plasmonic Biosensing System for Sepsis Diagnosis	Ling Ling Sun	Temasek Polytechnic	Singapore	S4-0010
P-016	Continuously Tunable Distributed Feedback Dye Laser in a Stretchable PDMS Film	Yan Chen	Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences	China	S5-0003
P-017	Analysis of LoVo Colorectal Adenocarcinoma Cells' Size using ImageStreamX Imaging Flow Cytometry	Xiao Ma	Peking University	China	S5-0004
P-018	Amplification of DNA in a Portable Natural Convection PCR System	Li Zhenqing	University of Shanghai for Science and Technology	China	S6-0001
P-019	A Flexible, Si-based Neutron Detector for Safeguards Applications	Dehu Cui	South University of Science and Technology of China	China	S6-0004
P-020	A Free Molecular Flow Model for Ultra-thin Parylene Deposition	Wei Wang	Peking University	China	S6-0007
P-021	Bayesian Nanoscopy Reveals Spatiotemporal Organization of Pol II Clusters in Living Cell Nuclei	Xuanze Chen	Peking University	China	STS-B001

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P-022	Optical Measurements on Neuronal Cells Membranes in Response to External Stimulations	Chia-Wei Lee	Research Center for Applied Sciences, Academia Sinica	Taiwan	STS-B002
P-023	Tunneling Nanotube Communications between Pancreatic Cancer Cells Induced by Macrophage Conditioned Medium and Electric Fields	Chau-Hwang Lee	Research Center for Applied Sciences, Academia Sinica	Taiwan	STS-B003
P-024	Experimental Realization of Three-dimensional Hyperbolic Cavities in the Microwave Regime	Lei Zhou, Shulin Sun	Fudan University	China	S3-0002
P-025	Microfluidic Creation of Controllable Hierarchical Microparticles toward SERS Application	Lingling Shui	South China Normal University	China	S3-0004
P-026	Does the Fano Formula Always Work for Optical Fano Effects?	Lei Zhou	Fudan University	China	S3-0008
P-027	Chip-integrated Ultracompact and Broadband Wavelength Demultiplexer	Cuicui Lu	Qian Xuesen Laboratory of Space Technology, China Academy of Space Technology	China	S3-0010
P-028	Coupling Effects between An Electric Dipole and A Magnetic Dipole	Lei Zhou	Fudan University	China	S3-0012
P-029	The Application of Fourier Transform in the Design of Coding Metasurface for Controlling the Radiation	Shuo Liu	Southeast University	China	STS-D001
P-030	Ingenious Conversion between Surface Plasmon Polariton and Vortex Beam in Surface Plane	Ji Chen	Nanjing University	China	STS-D002
P-031	High-performance Adaptive Decoupling Realized by Tunable Metamaterials	Zhengyong Song	Xiamen University	China	STS-D004
P-032	Broadband Co-polarized Terahertz Beam Focusing Based on Multilayer Complementary Metasurfaces	Xiaomei Yu	Peking University	China	STS-D009

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P-033	A Circular Polarizer with Beamforming Feature Based on Frequency Selective Surfaces	Jia Yuan Yin	Southeast University	China	STS-D015
P-034	Plasmonic Modulators of Wide Tuning Range by Laser-induced Bubbles	Jianjun Chen	Peking University	China	STS-D018
P-035	High-efficiency Surface Plasmon Couplers Based on Pancharatnam-Berry Phase Metasurfaces	Shulin Sun, Lei Zhou	Fudan University	China	STS-D021
P-036	Controlled Motions of Janus Particles in Point, Circular and Linear Optical Traps	Zhi-Yuan Li	Institute of Physics, Chinese Academy of Science	China	STS-D025
P-037	Extraordinary Fano Resonances in a New Type of 3D Metamaterials	Jiafang Li, Zhi-Yuan Li	Institute of Physics, Chinese Academy of Sciences	China	STS-D027
P-038	A Polarization-independent Metasurface Cloak for Visible Light	Zhenyu Yang	Huazhong University of Science and Technology	China	STS-D029
P-039	A Novel High-density Flexible Microelectrodes Array	Tengyue Li	Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences	China	STS-E002
P-040	Electrical Stimulation of Rat Retina with High Density Electrode Array	Lan Yue	Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences; USC Eye Institutes; USC Institutes for Biomedical Therapeutics	USA	STS-E004

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Poster Session II, Tuesday 26 July

Poster ID	Title	Corresponding Author	Institution	Country/Region	Abstract ID
P-041	An Enhanced Bonding Method for PDMS and SU-8	Zhen Zhu	Southeast University	China	S1-0029
P-042	Controllable Fabrication of Nanowire Forests and Nanopillar Forests	Haiyang Mao	Institute of Microelectronics, Chinese Academy of Sciences	China	S6-0003
P-043	Numerical Study on the Formation Process of Rectangular Cross-section Glass Microstructure by Glass Molding Press	Jing Chen	Peking University	China	S6-0005
P-044	Inkjet Printing Metals on PDMS to Form Sensor in Microfluidic Chip	Dachao Li	Tianjin University	China	S6-0010
P-045	Nano-fabrication of Field Emitter Array and Its Emission Characteristics	Ningli Zhu	Peking University	China	S6-0011
P-046	Giant Photoluminescence in TMDC-gold Hybrid Metasurfaces	Cheng-Wei Qiu	National University of Singapore	Singapore	S7-0002
P-047	Substrate Rigidity Activates Cell Orientation with Left-right Asymmetry	Ting-Hsuan Chen	City University of Hong Kong	Hong Kong	S7-0005
P-048	Controllable Synthesis of Various Quantum Rods with Different Length to Diameter Ratio by a Seeded Growth Approach	Kai Wang	Southern University of Science and Technology	China	S7-0006
P-049	A Diffusion Reaction Model of Parylene Deposition in PDMS	Yechang Guo	Peking University	China	S7-0008
P-050	Anti-sticking Effects of Polycarbonate Residual Layer in Nanoimprint Lithography	Xing Cheng	South University of Science and Technology of China	China	S7-0009

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P-051	Fabricated Ag Nanoparticle on Multidimensional CO ₃ O ₄ Nanowire Arrays for the Highly Sensitive SERS Applications	Jun Tang	North University of China	China	S7-0010
P-052	A Wearable Self-powered Physiologic Status Monitoring System Based on the Discharged Rate Detection	Haixia Zhang	Peking University	China	S8-0002
P-053	Fabrication of Implantable 3D MEMS Coils for Wireless Energy Transfer System	Xiuhan Li	Beijing Jiaotong University	China	S8-0004
P-054	A Novel Implantable Optrode Composed of Fiber and Flexible Electrode	Weihua Pei	CAS Center for Excellence in Brain Science and Intelligence Technology, Chinese Academy of Sciences	China	S8-0005
P-055	An Electret-based Energy Harvesting Device with the MEMS Technology	Fei Wang	Southern University of Science and Technology	China	S9-0001
P-056	Broadband Optical Absorption in Silicon-related Nanostructures	Ru-Wen Peng	Nanjing University	China	S9-0002
P-057	A Feasibility Study of Chlorophyll Sensor using a Simple Optical Setup	S.-S. Lee	Tottori University	Japan	S9-0003
P-058	Microfluidic Reactors with Immobilized Enzymes for Glucose Generation	Xuming Zhang	Hong Kong Polytechnic University	Hong Kong	S9-0004
P-059	High-Q Whispering Gallery Mode on Silicon Substrate	Yun-Feng Xiao	Peking University	China	S2-0002
P-060	Compensation of the Kerr Effect for Transient Optomechanically Induced Transparency in a Microresonator	Zhen Shen	University of Science and Technology of China	China	STS-C003
P-061	Ringling Phenomenon in Whispering-gallery-mode Microresonator and Its Application in Sensing	Ming-Yong Ye	Fujian Normal University	China	STS-C006

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P-062	Enhanced Photoluminescence of Colloidal CuInS ₂ /ZnS nanocrystals using Silica Microdisks with High Quality Factor	Xiulai Xu	Institute of Physics, Chinese Academy of Sciences	China	STS-C009
P-063	Gain Enhanced Fano Resonance in a Coupled Photonic Crystal Cavity-waveguide Structure	Xiulai Xu	Institute of Physics, Chinese Academy of Sciences	China	STS-C010
P-064	Mechanical Tuning in the High-Q Microbubble Resonators	Chunhua Dong	University of Science and Technology of China	China	STS-C012
P-065	A Single Silica Microparticle Attached to an Optical Microfiber with Whispering Gallery Modes	Lei Shi	Huazhong University of Science and Technology	China	STS-C013
P-066	Silica Microsphere Resonator based Tunable MHz-bandwidth Microwave Filter	Lei Shi	Huazhong University of Science and Technology	China	STS-C014
P-067	Highly Sensitive Humidity Sensor Employing Mach-Zehnder Interferometer Based on Microfibers	Limin Tong	Zhejiang University	China	STS-C018
P-068	Backscattering Properties of Silica Microspheres Cavity	Jun Tang	North University of China	China	STS-C020
P-069	Cavity Modes with Optical Orbital Angular Momentum in a Metamaterial Ring Based on Transformation Optics	Ru-Wen Peng	Nanjing University	China	S3-0003
P-070	Super-planckian Near-field Thermal Radiation between Graphene-hyperbolic Heterostructures	Yungui Ma	Zhejiang University	China	S3-0007
P-071	Unique SPP Excitation Property of Triangular Nanohole Arrays	Oubo You	Tsinghua University	China	S3-0009
P-072	Controlling the Angular Dispersion of Metasurfaces	Meng Qiu	Fudan University	China	S3-0011

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P-073	Coherent Control of Plasmonic Spin-Hall Effect	Hui Liu	Nanjing University	China	STS-D007
P-074	Resonant Modes in Metal/Insulator/Metal Metamaterials: An Analytical Study on Near-field Couplings	Shaojie Ma	Fudan University	China	STS-D010
P-075	All-dielectric Metamaterial Frequency Selective Surface Based on Water	Liyang Li	Air Force Engineering University	China	STS-D016
P-076	Tubular Optical Microcavities with Multilayer Structure: Effective Media Theory and Applications	Shiwei Tang	Ningbo University	China	STS-D019
P-077	Polarization-controlled Bifunctional Metasurfaces in Transmission and Reflection Geometries	Lei Zhou, Shulin Sun	Fudan University	China	STS-D024
P-078	Realization of Plasmonic Microcavity with Full Transverse and Longitudinal Mode Selection	Zhi-Yuan Li	Institute of Physics, Chinese Academy of Science	China	STS-D026
P-079	Layer-by-layer Electrodeposition Iridium Oxide / Platinum Gray Microelectrodes for Electrical Neural Stimulation	Tianzhun Wu	Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences	China	STS-E003
P-080	Plasma Treatment of Polyimide for Surface and Adhesion Improvement	Tianzhun Wu, Bin Sun	Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences	China	STS-E005

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Poster Session III, Wednesday 27 July

Poster ID	Title	Corresponding Author	Institution	Country/Region	Abstract ID
P-081	Electrostatic Micro-Tweezers Working in Fluid	Shengyong Xu	Peking University	China	S1-0004
P-082	High-frequency Monodisperse Droplet Generation in Centrifugal Step-emulsification Microfluidic Device	Lingling Shui	South China Normal University	China	S1-0009
P-083	Modeling Electrokinetic Conductance of Nanochannel by Developing An Electrical Triple Layer Model	Moran Wang	Tsinghua University	China	S1-0018
P-084	A Microfluidic Separation Chip Based on Micropost Filter Structure Driven by Capillary Force	Zhigang Wu	Huazhong University of Science and Technology	China	S1-0020
P-085	Entrance Effects Induced Rectified Ion Transport in A Nanopore	Yanbo Xie	Northwestern Polytechnical University	China	S1-0022
P-086	Magneto-optical Studies in Aqueous Magnetic Fluids	Chintamani Pai	University of Mumbai	India	S2-0003
P-087	A Micro-flow Cytometer for In-line Bacterial Monitoring in Drinking Water	Tianyi Guo	Institute of Microelectronics of Chinese Academy of Sciences	China	S2-0004
P-088	Optical Biosensor Based on Liquid Crystal Droplets for Detection of Cholic Acid	Dan Luo	Southern University of Science and Technology	China	S4-0001
P-089	Simultaneous Monitoring of Oxygen Consumption and Acidification Rates of a Single Zebrafish Embryo during Embryonic Development within a Microfluidic Device	Shih-Hao Huang	National Taiwan Ocean University	Taiwan	S4-0002
P-090	Integration of Guided-mode Resonance with Micropost Filter for in-cell Protein Detection	Cheng-Sheng Huang	National Chiao Tung University	Taiwan	S4-0005

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P-091	Two Types of Sub-micron Temperature Sensors and Their Application in Microfluidic Systems	Shengyong Xu	Peking University	China	S4-0007
P-092	Label-free and Real-time Biochemical Measurement Based on Extraordinary Optical Transmission with Enhanced Accuracy	Wenhui Wang	Tsinghua University	China	S4-0009
P-093	An Optofluidic System for Continuous Glucose Monitoring with Optical Sensor Based on Enzyme Colorimetry	Dachao Li	Tianjing University	China	S4-0011
P-094	Fluidic Light Sheet Microscopy for High Throughput Sample Conditioning, 3D Imaging and Characterization on a Chip	Peng Fei	Huazhong University of Science and Technology	China	S5-0002
P-095	Integrated Opto-microfluidic Device Realized on Lithium Niobate for Droplet Generator and Sensing Applications	Annamaria Zaltron	Physics and Astronomy Department "Galileo Galilei", University of Padova	Italy	S6-0002
P-096	Dielectrophoresis Based 3-D Electrodes for Single Cell Trap and Rotation	Wenhui Wang	Tsinghua University	China	S6-0008
P-097	Immobilization of <i>C. Elegans</i> in Liquid using 3D-electrode Dielectrophoresis	Wenhui Wang	Tsinghua University	China	S6-0009
P-098	Capture and Release of Cancer Cells on the Polypyrrole Film	Wei Liu	Wuhan University	China	S7-0001
P-099	Experimental Investigation for Ejected and Deposited Nanosilver Droplets on Polyimide Films	Chia-Yen Chan	Instrument Technology Research Center, National Applied Research Laboratories	Taiwan	S10-0001
P-100	Fast Detecting and Manipulation of Nanoparticles	Yi Yang	Wuhan University	China	S10-0002
P-101	Optofluidics for Light Manipulation	Yi Yang	Wuhan University	China	S10-0003

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P-102	Dynamically Manipulating Static Droplets in A LEGO-like Microfluidic System	Bo Ma	Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences	China	S1-0027
P-103	XiE: A Robust Capillary-based Method for Generation Size-tunable Droplets and Polymeric Microparticles	Wenbin Du	Institute of Microbiology, Chinese Academy of Sciences	China	S11-0002
P-104	Optical Fiber Vibration Sensor Based on a Liquid Microdroplet	Fei Xu	Nanjing University	China	S11-0003
P-105	Integration of Photonic Crystal and Electrowetting-on-dielectric Microfluidics for Concentration Measurement	Cheng-sheng Huang	National Chiao Tung University	Hong Kong	S11-0004
P-106	GO (Graphene Oxide) Based Humidity and Temperature Sensor	Fei Wang	Southern University of Science and Technology	China	S12-0002
P-107	Promoting Maturation and Contractile Function of hiPSC-derived Cardiomyocytes on a 3D Patterned Chip	Jianhua Qin	Dalian Institute of Chemical Physics	China	S12-0003
P-108	A Multi-layer Microfluidic Device for Tumor-targeted Drug Testing	Jianhua Qin	Dalian Institute of Chemical Physics	China	S12-0004
P-109	Microfluidic System for Long Term Raman Signal Measurement	M. Sery	Institute of Scientific Instruments of the CAS	Czech Republic	S12-0006
P-110	High-throughput Raman Activated Droplet Sorting (RADS) for Microalgae Screening	Bo Ma	Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences	China	S1-0026
P-111	Microalgal Motility Based Toxicity Testing Microfluidics	Guoxia Zheng	Dalian University	China	STS-A001
P-112	Microfluidic Aqueous Two-phase Extraction of Bisphenol A using Ionic Liquid	Guoxia Zheng	Dalian University	China	STS-A002

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P-113	Facile Fabrication of Cotton Fiber Hydrogel for Removal of Heavy Metal Ions in Industrial Waste Water	Qidan Chen	Jilin University	China	STS-A003
P-114	Nano-optomechanical Systems Based on the Carbon Nanotubes Modified with Hexagonal Anthracene Nanosheets	Huanhuan Xie	Tsinghua university	China	STS-G001
P-115	Exposed Hollow-core Optical Fibers for Gas Sensing	Limin Xiao	Fudan University	China	STS-G005
P-116	Properties of Optofluidic Slot-waveguide Fibers	Limin Xiao	Fudan University	China	STS-G006
P-117	Development of Cylindrical Methanol Steam Reforming Microreactor with Fiber Porous Support	Wei Zhou	Xiamen University	China	STS-G007