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# Table of Contents

PL1: Plenary Talk I		
Bioinspired Super-wettability System and Beyond —Quantum-confined Superfluid: Energy Conversion, Chemical Reaction and Biological Information Transfer Lei JIANG		1
PL2: Plenary Talk II		
Atomically Precise Chemical, Physical, Electronic, and Spin Contacts Paul S. WEISS		3
PL3: Plenary Talk III		
Pushing Laser Precision Engineering from Micro-scale to Nano-scale: Progress, Challenges and Opportunities Minghui HONG		5
PL4: Plenary Talk IV		
From Supramolecular to Adaptive Chemistry – Contributions to Nanoscience and Technology Jean-Marie LEHN		7
PL5: Plenary Talk V		
Semiconductor Nanowires for Optoelectronics Applications Chennupati JAGADISH		9
PL6: Plenary Talk VI		
Nanomaterials of High-Surface Energy for Efficient Electrochemical Energy Conversion and Storage Shi-Gang SUN		11
PL7: Plenary Talk VII		
Molecules in Motion: From Biology to Chemistry Jean-Pierre SAUVAGE		13
PL8: Plenary Talk VIII		
Nano-calorimetry: A New Tool for Materials Development Joost J. VLASSAK		15
PL9: Plenary Talk IX		
Transformative Impact of Printable Solar Cells for Meeting Next-Generation Energy Demands Alex JEN		17
PL10: Plenary Talk X		
Van der Waals Heterostructures Kostya NOVOSELOV		19
CH1: Chihming Ho Award Session		
Integrated Electrical Test Vehicle Co-designed with Microfluidics for Evaluating the Performance of Embedded Cooling Yuxin Ye, Nan Zhang, Lihang Yu, Bo Cong, Ruiwen Liu, Yanmei Kong and Binbin Jiao		21
Frequency Characteristics of Microfluidic Single Gate Oscillator Zhou Zhou, Manman Xu, Hai Wang, Kunpeng Zhang, Daoheng Sun		N/A

Minimal-Invasive Levodopa Sensing Based on Differential Amperometry Microneedle Electrodes Decorated with Spike-like Au Nanoparticles <i>Hangxu Ren, Xiyu Mao, Shanshan Zhang, Yu Cai, Lu Fang, Xuesong Ye, Bo Liang</i>	26
Silicon Nanowire Array Sensor for Highly Sensitive and Selective Detection of Nerve Agent Simulant Vapor via surface hydroxyl groups <i>Xingqi Liu, Hongpeng Zhang, Zhiping Huang, Xuanlin Yang, Shixing Chen, Yuelin Wang, Tie Li, Zhenxing Cheng</i>	30
Magnetic Force Enabled Plant Seed Levitation to Simulate Microgravity Environment on a Microfluidic Chip <i>Jing Du, Lin Zeng, Zitong Yu, Sihui Chen, Xi Chen, Yi Zhang, Hui Yang</i>	N/A

#### WK1: Wen H Ko Memorial Session

MEMS/SEMI Ecosystem in China --2021 <i>Lucy HUANG</i>	N/A
Forever Scaling—Pushing the Limit of Miniscule Sensors and Actuators <i>Zenghui WANG</i>	N/A
Forever Pioneer- In Memory of Prof. Wen Ko <i>Tie LI</i>	N/A

#### BC1: Best Conference Paper Session

Chip-level-microassembly Comb-drive XYZ-microstage with Large Displacements and Low Crosstalk <i>Gaopeng Xue, Masaya Toda, Xinghui Li, Takahito Ono</i>	43
Effect of the Different Substrates and the Film Thickness on the Surface Roughness of Step Structure <i>Chenyong Wang, Jiangtao Pu, Lei Li, Weixuan Jing, Yijun Zhang, Yaxin Zhang, Feng Han, Ming Liu, Wei Ren, Zhuangde Jiang</i>	47
Efficient Infrared—Thermal-Electric Conversion with Textured Dielectric Film <i>Yunqian He, Yuelin Wang, Tie Li</i>	51
Inertial Focusing Chip Based on Superposed Secondary Flows <i>Jianguo Feng, Qi Wang, Yuanming Ma, Honglong Chang, Gaobin Xu</i>	55
A Sensorised Forcep Based on Piezoresistive Force Sensor for Robotic-assisted Minimally Invasive Surgery <i>Cheng Hou, Jiangjun Geng, Yuyang Sun, Tao Chen, Fengxia Wang, Hongliang Ren, Xiuli Zuo, Yanqing Li, Huicong Liu, Lining Sun</i>	60
In situ Laser-assisted Micromachining of Environmentally-responsive Hydrogel Films <i>Hongjie Jiang, Manuel Ochoa</i>	64
Three-dimensional Graphene FETs for pH Detection <i>Tao Deng, Yuning Li, Zhaohao Zhang, Yang Zhang, Zewen Liu</i>	68

#### IS1: Advanced Micro/nano Fabrication, Materials and Applications

Surface and Bulk Micro/Nanomachining of Polymers <i>Junshan LIU</i>	N/A
Flexible Healthcare Sensors <i>Xuewen WANG</i>	N/A
Hexagonal Boron Nitride Phononic Crystal Waveguides for Classical and Quantum Signal Transduction <i>Yanan WANG</i>	N/A
Micro-Fluidic Heat Dissipation Technology Based on Multi-elements Compatible MEMS Process <i>Yunna SUN</i>	N/A
Accurate Three-dimensional Physical Simulations of Micro/Nano Fabrication Processes <i>Zaifa ZHOU</i>	N/A
Micro-system based Multimodality Imaging System for Quantitative Molecular Imaging and Precision Health <i>Zhen QIU</i>	N/A

## IS2: Thermal management in MicroNano Systems

<a href="#">Thermal Transport of Mechanically Deformed 2D Materials</a> <i>Baoxing XU</i>	N/A
<a href="#">Thermal Transport Properties of Metals and Metallic Nanostructures</a> <i>Hua BAO</i>	N/A
<a href="#">Rational Design of Conductive Polymers for Flexible Thermoelectric Device</a> <i>Hui LI</i>	N/A
<a href="#">Layered Two-Dimensional Materials Showing Two Extremes of Heat Transport</a> <i>Hyejin JANG</i>	N/A
<a href="#">Layer Dependent Thermal Transport Properties of 2D WSe<sub>2</sub></a> <i>Xian (Annie) ZHANG</i>	N/A
<a href="#">Temperature-Microstructure-Properties Relationships During Al-Sn-Al Thermo-Compression Wafer Bonding</a> <i>Zhiyuan ZHU</i>	N/A

## IS3: Resonant Micro/Nanoelectromechanical Systems

<a href="#">High Resolution Micro-sensors Based On Coupled Resonators/Modes</a> <i>Chun Zhao</i>	N/A
<a href="#">Multimode Resonant Micromechanical Systems in Liquid for Biophysical Studies of Cancer Cells</a> <i>Hao Jia</i>	N/A
<a href="#">Sensing with Serial or Paralell Micromechanical Resonators</a> <i>Honglong Chang</i>	N/A
<a href="#">Atomically-Thin MoS<sub>2</sub> Nanoelectromechanical Resonators</a> <i>Rui Yang</i>	N/A
<a href="#">Nonlinear MEMS: fundamentals and applications</a> <i>Xueyong Wei</i>	N/A
<a href="#">Ultra-Wide Bandgap <math>\beta</math>-Ga<sub>2</sub>O<sub>3</sub> Resonant Nanoelectromechanical Systems (NEMS)</a> <i>Xuqian Zheng</i>	N/A

## IS4: Self-powered Micro/Nano Systems

<a href="#">Tribotronics for Active Mechanosensation and Self-Powered Microsystems</a> <i>Chi ZHANG</i>	N/A
<a href="#">Pulsed Triboelectric Nanogenerator and Self-Powered Sensing System</a> <i>Gang CHENG</i>	N/A
<a href="#">High Efficient Vibration Energy Harvesting for Self-powered Machine Monitoring Application</a> <i>Jian HE</i>	N/A
<a href="#">Nanogenerators for Self-powered Wearable Physical Monitoring Systems</a> <i>Wei TANG</i>	N/A
<a href="#">Triboelectric polymers and electrostatic power source</a> <i>Xiangyu CHEN</i>	N/A
<a href="#">Self-Powered Triboelectric Pressure Sensors</a> <i>Zhen WEN</i>	N/A

## IS5: Bioelectronic Devices and Systems

<a href="#">Development of Self-powered Sensors towards Machine-learning Enabled Smart Systems</a> <i>Chengkuo LEE</i>	N/A
<a href="#">Interactive Neuromorphic Synaptic Devices and Systems</a> <i>Qijun SUN</i>	N/A
<a href="#">Minimally Invasive Devices for Biomedical Applications</a> <i>Xi XIE</i>	N/A

Flexible bioelectronic devices for monitoring and regulating physiological activities <i>Xian HUANG</i>	N/A
Shape-adaptable Biomedical Devices <i>Xuemin DU</i>	N/A
Self-Powered Medical Electronics <i>Zhou Li</i>	N/A

## IS6: Non-linear Micro/Nanoelectromechanical Systems

Nonlinear Interaction in Coupled Cantilevers and Its Sensing Applications <i>Cao XIA</i>	N/A
Insight of Sensing Mechanisms for Conjugated Polymer Based Gas Sensors <i>Jian SONG</i>	N/A
Ultrasensitive mass sensing utilizing nonlinear mode localization of MEMS curved beams with distributed electrodes <i>Jian ZHAO</i>	N/A
Nonlinear Broadband Energy Harvesting and Applications <i>Junyi CAO</i>	N/A
Dynamic-Based Micro and Nano Devices and Phenomena <i>Mohammad I. Younis</i>	N/A
Nonlinear dynamics of coupled MEMS resonators and its application <i>Ronghua HUAN</i>	N/A

## S1: Micro/Nano/Molecular Fabrication I

Opportunities for Single-Molecule Electronics: A Ten-Year Perspective <i>Wenjing HONG</i>	138
Synchronized Surface Modification of TiO <sub>2</sub> Composite Nanofiber Through Core-Shell Electrospinning <i>Hao Peng, Guoyi Kang, Jiabin Jiang, Zungui Shao, Juan Liu, Yifang Liu, gaofeng zheng</i>	140
Precursor-Based ZnO Nano Inks for Printed Electronics <i>Wenxin Liu, Hao Dong, Di Wang, Xing Chen</i>	144
Efficient Manufacturing of Microdome Array for Advanced Electronic and Optical Devices <i>Zehua Xiang, Haobin Wang, Hang Guo, Ji Wan, Chen Xu, Liming Miao, Mengdi Han, Haixia Zhang</i>	148
Solvent-free Nanofabrication Based on Ice-assisted Electron-beam Lithography <i>Yu Hong, Ding Zhao, Min Qiu</i>	N/A
Ice-Assisted Electron-Beam Lithography for 3D Nanofabrication <i>Ding Zhao, Yu Hong, Min Qiu</i>	N/A

## S2: Energy Conversion and Storage I

Conformal Bioelectronic Interfaces <i>Xiaodong CHEN</i>	156
Broadband Piezoelectric Harvester Utilizing Three-wafer Bonding for Self-powered Wireless Sensor System <i>Xin Chen, Daqiao Tong, Jian Zhang, Lingxiao Gao, Fayang Wang, Hongzhi Pan, Liang Cao, Xiaojing Mu</i>	158
Design and Fabrication of a Metal-silicon Actuator with Large Displacement and Low Voltage <i>Ying Bu, Jin Xie, Kaiquan Li, Zhuang Xiong, Bing Tang, Qi Tao, Jun Dai</i>	N/A
Flexible Single Electrode Triboelectric Nanogenerator <i>Yuchi Liu, Rami Ghannam, Xiaosheng Zhang</i>	N/A
Development of Closed-Loop Soft Actuators with Self-Sensing Capability for Advanced Wearable Assistive Robotics <i>Hwajong Kim, Jaehong Lee</i>	N/A
Wearable Triboelectric Nanogenerator based on the Conductive Textile with Polyaniline Grafted <i>Yun Tian, Chuanhong Zhou, Zejue Yu, Zhangwei Liu, Chenyang Xing, Bo Meng, Zhengchun Peng</i>	N/A

### S3: Micro/Nano Pores and Channels

Organic Molecular Sieve Membranes <i>Zhongyi JIANG</i>	170
Regulatory Mechanism of Ionic/Molecular Transport Behaviors in Nanoscale Channels <i>Yaqi Hou, Xu Hou</i>	N/A
Fabrication of Nanoslits with <111> Etching TSWE Method <i>Hao Hong, Li Ye, Ke Li, Pasqualina M Sarro, Guoqi Zhang, Zewen Liu</i>	174
Confined Colloids Gating System for Tunable Fluid Transport <i>Zhizhi Sheng, Mengchuang Zhang, Jing Liu, Xu Hou</i>	N/A
Characterization of ITO-SiNx Nanopores for Single-Biomolecular Sensing <i>Xin Zhu, Chaoming Gu, Xiaojie Li, Zhi Ye, Zhen Cao, Yang Liu</i>	180
Mechanical Energy Harvester for Smart Shared Bicycle Application <i>Junlong Huang, Chen Bao, Anxin Luo, Fei Wang</i>	184

### S4: MEMS/NEMS I

Triboelectric Nanogenerator for Powering Body-implantable Electronics <i>Sang-Woo KIM</i>	189
Analysis of Vibration Modes in TPoS Disk Resonators <i>Feilong Li, Cheng Tu, Jiannan Chen, XIAOSHENG ZHANG</i>	N/A
A Resonant Differential Pressure Sensor Based on Bulk Silicon Technology <i>Chao Cheng, Yadong Li, Yulan Lu, Chao Xiang, Junbo Wang, Deyong Chen, Jian Chen</i>	193
An Ultralow-Ripple Polarization Voltage Generator based on High- Voltage Bandgap Reference for MEMS Gyroscopes <i>Hua Chen, Zhen Meng, Xingcheng Zhang, Ke Liu</i>	197
Electrochemical Micromachining of Copper Workpiece with Ultrashort Voltage Pulses <i>Zhen Ma, Lianhuan Han, Hantao Xu, Bingqian Du, Yang Wang, Dongping Zhan</i>	N/A
Development of thin glass-based biconvex microlens via thermal expansion <i>Yusufu Aishan</i>	203
Lubricated Non-immunogenic Neural Probes for Lifelong use brain-machine interfaces <i>Yeontaek Lee, Hyogeun Shin, Il-Joo Cho, Jungmok Seo</i>	N/A

### S5: Micro/Nano Fluidic I

Nanofluidic devices for Biosensing and Energy Conversion <i>Xinghua XIA</i>	209
Inner Surface Design of Microfluidic channels for Microscale Flow Control <i>Shuli Wang, Xu Hou</i>	N/A
Carbon Nanotube-Based Ionic Diodes: Design and Mechanism <i>Ran Peng, Yueyue Pan, Biwu Liu, Zhi Li, Peng Pan, Shuailong Zhang, Zhen Qin, Aaron R. Wheeler, Shirley Tang, Xinyu Liu</i>	N/A
Research on a MEMS Detonated Device with Built-in Safety and Arming Device <i>Kexin Wang, Tengjiang Hu, Yulong Zhao, Wei Ren</i>	215
Molecular Dynamics Simulation on Directional Wetting Behavior of a Nano Droplet on Titanium Oxides Surface <i>Chenhua Liu, Xiangmeng Li, Xijing Zhu</i>	N/A
A Human Cornea-on-a-Chip for the Study of Epithelial Wound Healing by Extracellular Vesicles <i>Zitong Yu, Rui Hao, Jing Du, Xi Chen, Yi Zhang, Wei Li, Zhongze Gu, Hui Yang</i>	N/A
Flow-through Electroporation Using Silver-PDMS Based 3D Sidewall Microelectrodes <i>Yao Cai, Yunyi Huang, Guangyu Qin, Duli Yu, Xiaoxing Xing</i>	228

### PS1: Poster Session I

Self-driven photoelectrochemical UV-visible photodetectors using ZrO <sub>2</sub> @TiO <sub>2</sub> core-shell nanorod arrays modified with single-walled carbon nanotubes <i>Zhen Wang, Renrong Zheng, Na Wang, Haisheng San</i>	232
--	-----

<a href="#">Electronic Skin Based on Electrospun PVDF Nanofibers for Slipping Detection</a>	236
<i>Lingke Yu, Wenchang Tu, Shanshan You, Lingling Liu, Daoheng Sun</i>	
<a href="#">A Flexible Hybridized Electromagnetic-Triboelectric Nanogenerator and its application for 3D Trajectory Sensing</a>	N/A
<i>Ji Wan, Haobin Wang, Liming Miao, Hang Guo, Chen Xu, Hai Xia (Alice) Zhang</i>	
<a href="#">A Simple Bandwidth Broadening Method of Terahertz Metamaterial Absorber by Partially Removing The Dielectric Layer</a>	242
<i>Jia Xu, Jiahao Miao, Yi Liu, Yuan Tian, Xiaomei Yu</i>	
<a href="#">Tough Self-Healing Polymer Encapsulated Stretchable Conductive Fibers for Systematical Integration of Wearable Electronics</a>	N/A
<i>Chaebeen Kwon, Taeyoon Lee</i>	
<a href="#">Miniaturized Piezoresistive Sensors with Wide Working Range for Wearable Human Machine Interfaces</a>	N/A
<i>Hongcheng Xu, Ling Duan, Libo Gao</i>	
<a href="#">Water Drop Detection Contained in Lubricant Oil for Submersible Pump Fault Diagnosis</a>	251
<i>Fumikazu Mizutani, Michio Shimimura, Akinori Mori, Yoshikazu Yoshida, Yoshihiro Hosokawa, Tadao Matsunaga, Sang-Seok Lee</i>	
<a href="#">Lateral characteristic calibration of an atomic force microscope using a Cr atomic deposition grating</a>	255
<i>Junjie Wu, Xiaoyu Cai, Yuan Li, Yunxia Fu, Jiasi Wei</i>	
<a href="#">A Miniaturized PM2.5 Concentration Monitoring System Based on QCM Sensor and Optimized Structure Virtual Impactor</a>	N/A
<i>Yong Wang, Dongyang Chen, Qian Zhang, Yinshen Wang, Jin Xie</i>	
<a href="#">Preparation of Porous SnO<sub>2</sub> and its Ethanol Detection Performance in MEMS Structure Gas Sensor</a>	N/A
<i>Xiao Zhang</i>	
<a href="#">High Electrochemical Activity of Oxygen-Doped Graphene Sheets Embedded Carbon Film</a>	N/A
<i>Yuanyuan Cao, Kaikai Sun, Haohua Zhong, Dongfeng Diao</i>	
<a href="#">Fast-scan MOEMS Mirror for HD Laser Projection Applications</a>	265
<i>Huijun Yu, Wenjiang Shen, Peng Zhou</i>	
<a href="#">Modeling and Optimization of VLF Piezoelectric Antenna Towards Lower Frequency</a>	271
<i>Huilian Liu, Yao Chu, Weiguo Hou, Yingqiao Li, Yuan Yao, Yaxing Cai</i>	
<a href="#">Electrically Induced Wire-forming 3D Printing Technology of Flexible Liquid Metal</a>	N/A
<i>Xinpeng Wang, Liangtao Li, Yang Wang, Liang Hu</i>	
<a href="#">Amorphous carbon film based weak pressure sensor with ultrathin sensitive structure</a>	N/A
<i>Qi Zhang, Yulong Zhao</i>	
<a href="#">Bacterial Outer Membrane Vesicles Presenting Programmed Death 1 for Improved Cancer Immunotherapy via Immune Activation and Checkpoint Inhibition</a>	N/A
<i>Yao Li</i>	
<a href="#">Micro-fabricated alkali vapor cells for atomic spin gyroscope study</a>	282
<i>Yao Chen, mingzhi Yu, Yintao Ma, Guoxi Luo, Zhuangde Jiang, Yu Bai, Libo Zhao</i>	
<a href="#">Dopamine modified nanopore for ultra-trace level detection</a>	N/A
<i>weijun li, xu hou</i>	
<a href="#">Nano/Micro Wearable Photo-sensor System Based on Novel Carbon Film</a>	N/A
<i>xi zhang, Dongfeng Diao</i>	
<a href="#">Electron-Induced Perpendicular Graphene Sheets Embedded Porous Carbon Film for Flexible Touch Sensors</a>	N/A
<i>Sicheng Chen, Lei Yang</i>	
<a href="#">Graphene Oxide Nanosheet Assisted Porous Chitosan Sponge for Hemostatic Applications</a>	293
<i>Yuanyuan YANG, Yajing Shen</i>	
<a href="#">High-Performance Flexible Supercapacitors Based on Nitrogen-Doped Graphene Fiber Electrodes</a>	N/A
<i>Feng Han, Weixuan Jing, Bian Tian, Qijing Lin, Chenying Wang, Libo Zhao, Ping Yang, Zhuangde Jiang</i>	



<a href="#">Design and Simulation of a Wide-Bandwidth CMUTs Array with Dual-Mixed radii and Multi Operating Modes</a>	299
<i>Zichen Liu, Libo Zhao, Yihe Zhao, Jie Li, Zhikang Li, Yu Bai, Ping Yang, Qijing Lin, Zixuan Li, Jiawei Yuan, Zhuangde Jiang</i>	
<a href="#">Transparent, Anti-Freezing Hydrogels for Ultrasensitive Temperature and Strain Sensor Based on A Thin-Film Structure</a>	303
<i>Zixuan Wu, Haojun Ding, Yaoming Wei, Kai Tao, Jin Wu</i>	
<a href="#">Uniformly arrayed carbon nanofibers down to several nanometers</a>	N/A
<i>Jufeng Deng, Chong Liu, Madou Marc</i>	
<a href="#">Self-Powered Transparent Stretchable 3D Motion Sensor</a>	N/A
<i>Hang Guo, Haobin Wang, Zehua Xiang, Chen Xu, Wan Ji, Liming Miao, Jiayin Li, Mengdi Han, Haixia Zhang</i>	
<a href="#">ENHANCING SENSITIVITY USING ELECTROSTATIC SPRING IN COUPLING MODE-LOCALIZED MEMS ACCELEROMETER</a>	311
<i>Zheng Wang, XingYin Xiong, KunFeng Wang, WuHao Yang, ZhiTian Li, XuDong Zou</i>	
<a href="#">Self-powered Delta-Parallel-based Interface for Diversified Control Applications for 2/3D Control in Virtual/Real Space</a>	N/A
<i>Cheng Hou, Jiangjun Geng, Tao Chen, Huicong Liu, Lining Sun</i>	
<a href="#">Microchip based Gigahertz Acoustic Streaming induced Cellular Internalization of Gold Nanorods</a>	N/A
<i>Shan He, Xiaoyu Wu, Wenjun Li, Wei Pang, Xuexin Duan, Yanyan Wang</i>	
<a href="#">Direct-write 3D printed self-supporting flexible microstructure devices</a>	319
<i>cuiwen hu, haifeng chen, deyun mo, haishan lian, yinhuan yang, xiaojun chen</i>	
<a href="#">Biomimetic Curvatures Controlled Fluid Overflow System</a>	N/A
<i>Zhichao Dong</i>	
<a href="#">A Flexible Pain Sensor Based on PDMS-AgNWs</a>	N/A
<i>Chen Xu, Liming Miao, Haobin Wang, Hang Guo, Zehua Xiang, Haixia Zhang</i>	
<a href="#">Liquid gating membranes for multiphase separation</a>	N/A
<i>Shijie Yu</i>	
<a href="#">A bionic fish with 4 IPMC pectoral fins</a>	N/A
<i>zhao chun, Wang Yanjie, Tang Gangqiang, wang jiale, zhu denglin, Luo Minzhou</i>	
<a href="#">Ohmic Contact Characteristics of Silicon Carbide-based MEMS Devices</a>	334
<i>Chen Wu</i>	
<a href="#">Facile fabrication of NiO wrinkle micro/nanostructures and the application of enzyme-free glucose sensors</a>	339
<i>Shulan Jiang, Yong Tan</i>	
<a href="#">Hard protective transparent coatings for flexible electronics</a>	N/A
<i>Oleksiy Penkov, Mahdi Khadem</i>	
<a href="#">High-efficient Electrochemical Betavoltaic Cell Using ZrO<sub>2</sub> Modified TiO<sub>2</sub> Nanorod Arrays</a>	345
<i>Renrong Zheng, Zhen Wang, Na Wang, Zan Ding, Haisheng San</i>	
<a href="#">Design and Fabrication of PDMS Thin Film Electromagnetic Actuator</a>	N/A
<i>Hongguang Lu</i>	
<a href="#">Elastomers with ultrafast low temperature self-healing rate and low adhesion to ice</a>	N/A
<i>Yizhi Zhuo</i>	
<a href="#">Spoof Plasmon Surfaces for Terahertz Sensing</a>	N/A
<i>Yi Huang, Shuncong Zhong, Tingling Lin, Yujie Zhong</i>	
<a href="#">A Flexible Pressure/Flow Sensor Based on Graphene Piezoresistivity</a>	N/A
<i>Zihao Dong, Yonggang Jiang, Deyuan Zhang</i>	
<a href="#">Hypoxia/pH dual-responsive nitroimidazole-modified chitosan/rose bengal derivative nanoparticles for enhanced photodynamic anticancer therapy</a>	N/A
<i>xudong li, Yu Gao</i>	
<a href="#">Research on Key Technology of Novel RF MEMS Switch Designing and Fabricating</a>	358
<i>Yun Qi, Yuanyuan Yang, Wenjiang Shen</i>	
<a href="#">Design and Analysis of Dual Substrate RF MEMS Capacitive Switch with Low Actuation Voltage</a>	N/A
<i>Yuanyuan Yang, Yun Qi, Wenjiang Shen</i>	

A pulse diagnosis instrument based on digital microfluidics system to imitate TCM <i>Shouju Yao, Hang Jin, Bin Qiu, Wenchang Tu, yike zhou, Shanshan You, Tianhao Wu, lingling liu, gonghan he, Daoheng Sun</i>	N/A
Exploring the Therapeutic Effect of Sonodynamic Therapy in Cancer Cells under Different Ultrasonic Parameters and Treatment Conditions <i>Yilin Zheng, Jun Wang, Yu Gao</i>	N/A
Stretchable and Flexible Fiber Electrode for Measuring Neural Signal with Au Nanoparticle Conductive Networks <i>Chihyeong Won, Taeyoon Lee</i>	N/A
Broadband linear-to-circular polarization converter based on ultrathin metal nano-grating <i>Yuanyi Fan, Ran Zhang, Ze Liu, Chuanlong Guan, Jinkui Chu</i>	372
Skin Inspired Humidity and Pressure Sensor with Wrinkle-on-Sponge Structure <i>Liming Miao, Ji Wan, Chen Xu, Hang Guo, Haobin Wang, Zehua Xiang, Jiayin Li, Mengdi Han, Haixia Zhang</i>	N/A
Probing zeta potential of glass in electrolyte solutions by colloidal probe technique <i>Zhijian Liu, Jiaming Gao, Tianze Wu, Sen Wu, Zixiao Fan, Ziyi Yuan, Yongxin Song, Xinxiang Pan</i>	378
High-Resolution Measurement Method Based on Array FOV and Coded Apertures <i>Li Zhang, Fei Xing</i>	382
Different Effects of Mass and Damping on Performance of Vibration and Wind Energy Harvesters <i>Xiaokang Yang, Xuefeng He, Zhengguo Shang, Hui Huang, Chunlong Li, Yufei Liu</i>	386
Nanocomposites Modified Platinum Wire Electrode for Detection of 17 $\beta$ -Estradiol Utilizing the Conformational Changes of Aptamers <i>Fanli Kong, Jinping Luo, Tao Ming, Shuai Sun, Yu Xing, Yan Cheng, Shihong Xu, Hongyan Jin, Xinxia Cai</i>	N/A
In-situ deposited ion-imprinted polymers for electrochemical detection of trace cadmium in water <i>Shuyu Xiao, Jingfang Hu, Jiyang Wang, Yu Song, Yansheng Li, Guowei Gao, Lei Qin</i>	392
Fabrication of Three-dimensional Si based Electrodes for Integrated Li Ion Microbatteries <i>Chuang Yue</i>	N/A
Electrochemical betavoltaic cell using black TiO <sub>2</sub> nanotube arrays modified with single-walled carbon nanotubes <i>Na Wang, Renrong Zheng, Zhen Wang, Jiang Chen, Haisheng San</i>	399
An Acoustic Microrobot Control System with Vision Feedback <i>Ying Wei, Hui Shen, Cong Zhao, Huan Ou and Xiaolong Lu</i>	N/A
Electrochemical Paper Aptasensor Based on Biotin-Streptavidin System for Label Free Detection of 17 $\beta$ -Estradiol <i>Tao Ming, Jinping Luo, Juntao Liu, Shuai Sun, Yu Xing, Fanli Kong, Yan Cheng, Hongyan Jin, Xinxia Cai</i>	N/A
Temperature Compensation for MOEMS Micromirror with Piezoresistive Angle Sensor <i>Lei Qian, Huijun Yu, Jie Hu, Wenjiang Shen</i>	407
Nanocrystalline Composed SnO <sub>2</sub> Inverse Opal for Highly Sensitive Acetone Gas Sensor at ppb-level <i>Feng Jiang, Wen Zhang, Yu Wei</i>	412
Study of the light emission from Eu <sup>3+</sup> doped nanoporous organosilicate films <i>JinMing Zhang, Jing Zhang, Yanrong Wang, Md. Rasadujjaman, Shuhua Wei, Jiang Yan</i>	417
A Highly Sensitive Origami-paper-based Aptasensor For Detection Of Programmed Cell Death Protein 1 (PD-1) <i>Shuai Sun, Tao Ming, Jinping Luo, Juntao Liu, Yu Xing, Fanli Kong, Xinxia Cai</i>	N/A
Investigation on Electrostatically Actuated Micromachined Gyroscope <i>junduo wang, Wenjiang Shen</i>	N/A
HIGHLY SENSITIVITY RESONANT BI-DIRECTIONAL MAGNETIC FIELD MICRO-SENSOR <i>Nouha ALCHEIKH, Sofiane Mbarek, Mohammad Younis</i>	425
Microelectrode Array for Electrophysiology Detection of Amygdala in Free-moving Mice <i>Penghui Fan, Yilin Song, Yuchuan Dai, Yiding Wang, Botao Lu, Enhui He, Xinxia Cai</i>	N/A
Photoluminescent Tough Gel Sheathed Suture for Near Infrared Bioimaging <i>Zhenwei Ma, Fan Yang, Dongling Ma, Jianyu Li</i>	N/A

<a href="#">A Flexible Mechanical Composite Micro-Grating Tailored by One-Dimensional Ordered Wrinkle Patterns</a>	433
<i>Yi-hang Xin, Kai-Ming Hu, Xiu-Yuan Li, Er-Qi Tu, Wen-Ming Zhang</i>	
<a href="#">Vibration Characteristics of Piezoelectric Timoshenko Nanobeams in Viscoelastic Medium</a>	437
<i>Dong Wu, Dapeng Zhang, Mingwei Liu, Yongjun Lei</i>	
<a href="#">AC &amp; DC Magnetic Field Sensor Based on Flexible Piezoelectric Polymer</a>	443
<i>Weilong Han, Jian Wen, Yifei Wu, Bo Niu, Yi Wu, Mingzhe Rong</i>	
<a href="#">Large Area Transient Films and Devices by Photonic Sintering of Two Dimensional Materials</a>	N/A
<i>Wenxing Huo, Zi'an Zhang, Zilun Wang, Ziyue Wu, Jiameng Li, Xian Huang</i>	
<a href="#">Fast reconstruction of Raman image based on the multi-channel imaging system and kernel function</a>	N/A
<i>Xian-Guang Fan, Long Liu, Ting Nie, Yi-Xin Lin, Ying-Jie Xu, Jian He, Xin Wang</i>	
<a href="#">Magnetically Induced Micropillar Arrays for Ultra-Sensitive Flexible Sensor with Wireless Recharging System</a>	N/A
<i>Libo Gao</i>	
<a href="#">A Capacitively Transduced Bulk Acoustic Wave MEMS Resonator with Low Bias Voltages</a>	455
<i>Zeji Chen, Qianqian Jia, Wenli Liu, Yinfang Zhu, Quan Yuan, Jinling Yang, Fuhua Yang</i>	
<a href="#">Detection of Single Protein Molecules Using MoS<sub>2</sub> Nanopores of Various Sizes</a>	459
<i>Chaoming Gu, Zhoubin Yu, Xiaojie Li, Xin Zhu, Zhen Cao, Zhi Ye, Chuanghong Jin, Yang Liu</i>	
<a href="#">Humidity Sensor Based on Thin-Film Piezoelectric-on-Substrate Resonator and MoS<sub>2</sub> for Multifunctional Applications</a>	463
<i>Hanyong Dong, Jintao Pang, Dongsheng Li, Qian Zhang, Jin Xie</i>	
<a href="#">Irreversible Electrowetting on Petal-mimetic Nanotextured Dielectric for Formation of Shape Controllable Polymeric Lenses</a>	N/A
<i>Huifen Wei, Xiangmeng Li</i>	
<a href="#">In-situ synthesized liquid metal microgels</a>	469
<i>Dawei Wang, Chennan Lu, Xiaohong Wang, Wei Rao</i>	
<a href="#">Design and Development of High Precision Magnetic Encoder Based on TMR MEMS Device</a>	474
<i>Zhang Bo, Jiang Yong, Li Yang, Chen Xiaoli, Wen Xiaolong</i>	
<a href="#">Flexible electrical stimulation device with Chitosan-Vaseline® dressing that accelerates wound healing in diabetes and corresponding stimulation optimization based on a precision layered skin model</a>	N/A
<i>Menglu Li, Xiaofeng Wang, Jikui Luo, Wei-qiang Tan, Xiaozhi Wang</i>	
<a href="#">Achieving ultrahigh energy density for triboelectric nanogenerator</a>	N/A
<i>Jingjing Fu, Yunlong Zi</i>	
<a href="#">Optical micro/nanofibre embedded soft film enables multifunctional flow sensing in microfluidic chips</a>	N/A
<i>Zhang Zhang, Jing Pan, Yao Tang, Yue Xu, Lei Zhang, Yuan Gong, Limin Tong</i>	
<a href="#">Dynamical Reversible Electrowetting with low voltage on the Dimethicone Infused Carbon Nanotube Array in Air</a>	N/A
<i>Lei Zhou, Miao Wang, Xu Hou</i>	
<a href="#">Trace mercury detection by ruthenium-based MOFs modified microelectrode</a>	N/A
<i>Chenyu Xiong, Yuhao Xu, Chao Bian, Ri Wang, Yong Xie, Mingjie Han, Shanrong Xia</i>	
<a href="#">Frequency Matching System of MEMS Gyroscope Based on Fuzzy Control Strategy</a>	491
<i>yifang Liu, Ruimin Liu, Gang Fu, Xin Yan, JunYu Chen, Gaofeng Zheng</i>	
<a href="#">High-yield and Large-size suspended graphene device Fabrication technique and Edge Burr Effect Analysis</a>	N/A
<i>Ying Liu, Qin Wang, Yong Zhang, Jing Qiu, Guan-jun Liu</i>	
<a href="#">Atomic study on the deform mechanism of CuTa/Cu and CuTa/Ta nanolaminates</a>	498
<i>Xiao Wang, Mengjie Wang, Min Liu, Yue Liu, Weidong Wang</i>	
<a href="#">Wireless Implantable Phototherapy Device for Oral Inflammation Repair</a>	503
<i>Shuang Huang, Cheng Yang, Ziqi Liu, Xinshuo Huang, Hui-Juan Chen</i>	
<a href="#">Development of Multi-functional Biocompatible Photopolymer</a>	N/A

<i>Seokyoung Bang, Dongha Tahk, Noo Li Jeon, Hong Nam Kim</i>	
<a href="#">Multiparametric Flexible Sensor Arrays system for in situ Immediate Diagnosis of Glossitis</a> <i>Ziqi Liu, Keer Li, Shuang Huang, Xinshuo Huang, Lingfei Zhou, Tiancheng Sun, Hui-Jiuan Chen</i>	509
<a href="#">Contribution discrimination of auxetic cantilever for increased piezoelectric output in vibration energy harvesting</a> <i>Lu Wang</i>	513
<a href="#">Research on Embedded 3D Printing for Magnetic Soft Robots</a> <i>Wei Zhang, Jiachen Li, Huicong Liu, Guoqing Jin</i>	518
<a href="#">Research on Coupling Mechanism of Wireless Power Supply Equipment for Film Pressure Wireless Sensing node of Water-lubricated bearing</a> <i>Yifan Zhao, Nan Wang, Fan Jiang</i>	524
<a href="#">Investigation of electrostatic-piezoelectric hybrid vibrational power generators with different frequency broadening schemes</a> <i>Yongqi Cao, Dezhi Nie, Jian Zhang, Yiwei Wang, Ronggang He, Zhe Zhao, Bowen Ji, Jianbing Xie, Kai Tao</i>	528
<a href="#">Bio-inspired Flexible, Dual-modulation Synaptic Transistors Towards Artificial Visual Memory Systems</a> <i>Fuqin Sun, Qifeng Lu, Ting Zhang</i>	N/A
<a href="#">Kinetic investigation into fast supramolecular processes and chemical reactions through microfluidic NMR</a> <i>Xinchang Wang, Liulin Yang, Xiaoyu Cao, Zhongqun Tian</i>	N/A
<a href="#">Liquid Metal Nanoparticles Decorated with Graphene oxide for Enhanced Peroxidase-Like Activity</a> <i>Xiaohong Wang, Dawei Wang, Chennan Lu, Wei Rao</i>	N/A
<a href="#">Size-Dependent Particle Separating in Curved Microfluidic Chip</a> <i>Yun Tian, Yongkang Wang, Yunfei Chen</i>	539
<a href="#">Tailoring surface morphology and crystal quality characteristics in InGaAs/GaAs quantum well structure by inserting high-temperature layer</a> <i>Quhui Wang, Haizhu Wang, Xiaohui Ma</i>	N/A
<a href="#">3D all-metal nano-cavity coupled metamaterial for refractive index sensing</a> <i>kenan zhang, peimin lu, wengang wu, jia zhu, guanzhou lin, yun huang</i>	546
<a href="#">Humidity Insensitive Nanogenerator Based on Natural Nanofibrils</a> <i>Yanyuan Ba, Xiaowen Li, Xiaosheng Zhang</i>	N/A
<a href="#">Design and Simulation of a Double-Ended Arrangement Infrared Thermopile</a> <i>Yihao Guan, Cheng Lei</i>	N/A
<a href="#">Nodding Duck Structured Hybrid Triboelectric-Electromagnetic Nanogenerator towards Ocean wave energy harvesting and Self-Powered Monitoring</a> <i>Liqiang Liu, Xiya Yang, Qunwei Tang</i>	N/A
<a href="#">A Facile and Green Microwave Hydrothermal Method for Fabricating g-C3N4 Nanosheets with Improved Hydrogen Evolution Performance</a> <i>Hongmei Chen, Yanyun Fan, Zheng Fan, Danfeng Cui, Chenyang Xue, Wendong Zhang</i>	N/A
<a href="#">One-step vapor deposition of fluorinated polycationic coating to fabricate antifouling and anti-infective textile against drug-resistant</a> <i>Ruixiang Zhao</i>	N/A
<a href="#">Atomic Layer Deposition of Al2O3 on 2D MoS2 for Enhancing the Recovery rate of Gas Sensor</a> <i>Sungjoo Wi, Inkyu Sohn, Youngjun Kim, Seungmin Jung, Hyungjun Kim</i>	N/A
<a href="#">Nonlinear dynamic of coupling mechanical modes demonstrated by phononic frequency combs</a> <i>Jiangkun Sun</i>	N/A
<a href="#">Deep spatial frequency shift enabled chip-based sub-wavelength- resolution imaging</a> <i>Mingwei Tang, Xiaowei Liu, Qing Yang, Xu Liu</i>	N/A
<a href="#">A Low-Cost Digital Lithography System Supporting Visual Focusing and its Application on Optical Fiber</a> <i>Luming Wang, Zhimin Zhang, Ningning Luo, Haifeng Xiao, Long Ma, Qingwang Meng</i>	563
<a href="#">Au-enabled nanostructured sapphire optical fiber sensor for in-situ gas sensing in harsh environments</a>	N/A

*Kai Liu, Paul Ohodnicki, Jeffrey Wuenschell, Subhabrata Bera, Renhong Tang, Lin Li, Yi Liu, Tinghan Liu, Han Wu, Zihua Huang, Henry Du*

Research on the resolution of submicron lithographic projection system based on DMD for optical fiber end face 571

*Qingwang Meng, Zhimin Zhang, Ningning Luo, Luming Wang, Menghan Xiong*

Gold Nanoparticles Modified Sensitivity-Enhanced Uncooled Near-infrared Detector N/A

*Xiaoyu Wu, Quanquan Guo, Wencheng Li, Chenyang Yu, Yanyan Wang*

Research on Nonlinear Shrinkage Characteristics of Small Modulus Plastic Gear Based on Moldflow N/A

*Xiansong He, Wangqing Wu, Yihua Lei*

## CS1: 学术好莱坞讲座

学术好莱坞讲座：现代科研论文的构思与写作 N/A

*Fengyu LI*

## IS7: IS: Micro Nano and Molecular Systems for Diagnostics and Therapeutics

Fusion Application of Medical Sensors and Internet of Medical Things N/A

*Jinhong GUO*

Semiconducting Molecular Probes for Ultrasensitive Afterglow Imaging and Early Diagnosis N/A

*Kanyi PU*

Cell-based biosensing technology and system N/A

*Ning HU*

Evanescence wave fluorescent biosensor for the detection of microRNA N/A

*Xiaohong ZHOU*

3D Printing Magnetic Soft Millirobots by Recirculating Vat Polymerization for Point-of-Care Diagnostics N/A

*Yi ZHANG*

Active sensing and hybridized sensors towards tactile intelligence N/A

*Bo MENG*

## IS8: IS: Micro-/Nanofluidic Devices and Systems

Patient-derived organoids analyzed on a superhydrophobic microwell array for predicting drug response of lung cancer patients within a week N/A

*Peng LIU*

Nanowire-integrated microfluidic devices to identify urinary microRNA groups for cancer detection N/A

*Takao YASUI*

Flexible filter based liquid biopsy N/A

*Wei WANG*

A Fully Integrated and Automated Microfluidic System for Rapid Testing of Respiratory Viruses N/A

*Liangbin PAN*

Bioinspired Surface Microfluidics for Digital PCR and Digital ELISA N/A

*Tianzhun WU*

Multi-dimensional manipulation of Solid/Liquid interaction N/A

*Xu DENG*

## IS9: IS: Multidisciplinary Frontier: Advanced Chemistry Materials for MEMS/NEMS

Fabricating fluorescent glass Derived from Mesoporous Powders N/A

*Lianjun WANG*

Controllable liquid transfer for making high-performance thin-film devices N/A

*Huan LIU*

Photo-crosslinkable, insulating silk fibroin for bioelectronics with enhanced cell affinity N/A

*Jie JU*

Unconventional Nanotemplate-based Technique and Its Emerging Applications N/A

Liaoyong WEN

Paintable hydrogels based on silane chemistry N/A  
Xi YAO

Electrodeposition filling method of TSV for 3D integration N/A  
Yan WANG

#### IS10: IS: Multidisciplinary Frontier: Micro/Nano Energy and Smart Electronics

2D MEMS metamaterial modulators for THz Communication N/A  
Xiuhua LI

Fiber Structured Flexible Pressure Sensor and Electronic Skin N/A  
Zhaoling LI

Self-Powered Sensing Techniques Towards Intelligent Human-machine Interaction N/A  
Huicong LIU

Surface Plasmon Polaritons Enhanced 2D-Material Photodetector for Infrared Application N/A  
Wen HUANG

Regulation of Strong and Weak Bonds in Lithium Metal Batteries to Enhance Their Performance N/A  
Yong ZHAO

Achieving Ultrahigh Output Energy Density of Triboelectric Nanogenerator in High-Pressure Gas Environment N/A  
Yunlong ZI

#### IS11: IS: Electronic and Optoelectronic Fibers and Textiles

Tuning the Viscosity for a Multi-material Multi-functional Fiber N/A  
Chong Hou

Nanoparticles Enabled Drawing of Ultra-Long Metal Nanowires N/A  
Xiaochun Li

Electronic Multi-material Fiber Sensors and Energy Harvesters N/A  
Fabien Sorin

Advanced Functional Semiconductor Fibers and Textiles N/A  
Lei Wei

Computational Design of novel two-dimensional semiconducting silicon carbides for optoelectric applications N/A  
Liujiang Zhou

Nano-/Micro-enabled Multimaterial Fibers for Wearable and Biosensing Applications N/A  
Xiaoting Jia

#### IS12: IS: RF Micro/Nano Components and Systems

Investigation on Energy Damping Mechanisms and Q-enhancement Strategies in Piezoelectric-on-Silicon MEMS Resonators N/A  
Cheng TU

MEMS Resonators with High Q and Good Temperature Stability N/A  
Guoqiang WU

Novel RF MEMS devices using AlGaNGaN heterostructure N/A  
Haoshen ZHU

Mechanically-Flexible RF MEMS Resonators Enabled by FlexMEMS Technology N/A  
Mengjun ZHANG

Chip-scale AlN Thin Film Transducers and RF Wake-up Receivers N/A  
Tao WU

SOI-MEMS based RF micromachined switches for wireless applications N/A  
Yong Zhu

#### BS1: Best Student Paper Session

Microstructural-PVDF Dielectric Layer Based High-Resolution Flexible Capacitive Pressure Sensor 647

<i>Zebang Luo, Jing Chen, Zhengfang Zhu, Lin Li, Yi Su, Lei Wang, Hui Li</i>	
<a href="#">Electrohydrodynamically Printed Multicolor Perovskite Image Sensor Array</a>	652
<i>Qilu Wang, Guannan Zhang, Hanyuan Zhang, Yongqing Duan, YongAn Huang</i>	
<a href="#">A Novel Piezoelectric Micromachined Ultrasonic Transducer with Adjustable Broad and Flat Frequency Band</a>	656
<i>Lei Wang, Wei Zhu, Zhipeng Wu, Wenjuan Liu, Chengliang Sun</i>	
<a href="#">Stackable Triboelectric Nanogenerators for Self-powered Marine Monitoring Buoy</a>	660
<i>Jiale Dong, Hao Wang, Xiu Xiao, Taili Du, Yunpeng Zhao, Zhongqi Fan, minyi xu</i>	
<a href="#">Modulating the Electrical Transport Characteristics of a Metal-Semiconductor-Metal Structure by Local Strain Gradient</a>	665
<i>Youchao Huang, Shenhui Ma, Jiaona Zhang, Chao Xie, Min Zhang</i>	
<a href="#">A high-frequency narrow-band filtering mechanism based on auto-parametric internal resonance</a>	670
<i>Rong Wang, Cao Xia, Dong F. Wang, Takahito Ono</i>	
<a href="#">Calibrate Silicon Nanowires Field Effect Transistor Sensor with its Photoresponse</a>	676
<i>Yi Yang, Yuelin Wang, Shixing Chen, Tie Li</i>	
<a href="#">Flexible and Transparent Ultraviolet Photodetector Enabled by Metal Doping ZnO Nanorods Based on Mica Substrate</a>	680
<i>Yao huang, Hainan Zhang, Guanhua Dun, Yuhua Li, Renrong Liang, Yi Yang, Dan Xie, He Tian, Tian-ling Ren</i>	

## S6: MEMS/NEMS II

<a href="#">Liquid Metal Nano Electronics</a>	685
<i>Jing LIU</i>	
<a href="#">Design and Manufacture of a High Precision MEMS Flexible Force Sensor</a>	687
<i>Huimin Zhang, Yanlu Feng, Wei Zhang</i>	
<a href="#">Linear stiffness tuning of MEMS triangular capacitors</a>	691
<i>Yiming Jin, Zhipeng Ma, Yixuan Guo, Tengfei Zhang, Xudong Zheng, Zhonghe Jin</i>	
<a href="#">Power Handling Capability Enhanced RF MEMS Switch Using Modified-Width Cantilevers Structure</a>	695
<i>Yulong Zhang, Zhuhao Gong, Huiliang Liu, Zewen Liu</i>	
<a href="#">Research on Motion Characteristics for Latching Mechanism of MEMS Safety and Arming Device under Dual Environmental Forces</a>	699
<i>Shenghong Lei, Yun Cao, Weirong Nie, Zhanwen Xi, Na Xu, Weixiang Qiu</i>	
<a href="#">Modeling and Optimization of ScAlN-based MEMS Mirror with Large Static Two-axis Tilting Angle</a>	704
<i>Changhe Sun, Bolun Li, Wenqu Su, Yufei Liu, Yaming Wu</i>	

## S7: Nanophotonics and Nanoscale Imaging

<a href="#">Wavelength conversion through plasmon-coupled surface states</a>	709
<i>Mona JARRAHI</i>	
<a href="#">Photonic Nanojet Produced by A Microfluidic Channel for Biofluid Monitoring</a>	711
<i>Guoqiang Gu, Pengcheng Zhang, Hui Yang</i>	
<a href="#">Fluorescence Enhancement Utilizing Dielectric Microbeads with Semi-open Microwells</a>	715
<i>Pengcheng Zhang, Bing Yan, Guoqiang Gu, Zitong Yu, Xi Chen, Zengbo Wang, Hui Yang</i>	
<a href="#">Spectrometer-free Refractometric Sensing Using Image Recognition on Centimeter-scale Gradient Nanostructures</a>	N/A
<i>Siyi Min, Shijie Li, Zhouyang Zhu, Yu Liu, Chuwei Liang, Jingxuan Cai, Fei Han, Yuyan Li, Xing Cheng, Wen-Di Li</i>	
<a href="#">Strongly Anisotropic Monolayer InSe polarized light detector</a>	N/A
<i>Xusheng Wang, xi zhang</i>	
<a href="#">Self-powered textile-based tactile sensors inspired by human-skin for multifunctional sensing of wearables and robots</a>	N/A
<i>Changyong Cao</i>	
<a href="#">Compare of SNOM, PTIR, PiFM and PFIR</a>	N/A
<i>Hai-Long Wang, En-Ming You, Song-Yuan Ding, Zhong-Qun Tian</i>	

Full-spectrum optoelectronics based on bandgap-graded materials  
Zongyin Yang N/A

## S8: Energy Conversion and Storage II

Flexible Bionic Intelligent Perception System 729  
Jianhua ZHANG

Fabrication of laser scribed graphene stretchable supercapacitor by laser-assisted transfer printing strategy 731  
Guangyuan Xu, Yanan Chen, Fangshuai Chen, Yanfang Meng, Yinji Ma, Xue Feng

Smart Power Management Microsystem for Distributed Renewable Energy Harvesting 737  
Lin hao Feng, Kai Huang, Mingxin Liu, Hongsheng Zhong, Xiaosheng Zhang

Card-based Hybrid Piezo-Triboelectric Nanogenerator for Simultaneously Harvesting Sliding Mechanical Energy N/A  
Danliang Wen, Peng Huang, Yanyuan Ba, Xiaosheng Zhang

Self-Powered Electrochemical Interfaces for Material and Energy Conversion N/A  
Shuyan Gao, Zhong Lin Wang

A Micro Device Array for Real-time Monitoring Cardiac Contraction N/A  
Li Wang, Jun Chen, Weiguang Su, Anqing Li, Pengbo Liu, Chonghai Xu

Wind-driven self-powered wireless environmental sensors for Internet of Things at long distance N/A  
di liu, baodong chen, jie an, chengyu li, jiajia shao, wei tang, chi zhang, zhonglin wang

Design of Self-powered Environment Monitoring Sensor Based on TEG and TENG 749  
Jianhao Liu, Changxin Liu, Cong Zhao, Huaan Li, Guanghao Qu, Zhuofan Mao, Zhenghui Zhou

## S9: Soft & Flexibe Devices and Applications I

Printed flexible/stretchable electronics and applications 754  
Zheng Cui

Optical micro/nanofiber enabled compact tactile sensor for hardness discrimination N/A  
Yao Tang, Haitao Liu, Jing Pan, Zhang Zhang, Yue Xu, Lei Zhang, Limin Tong

A Flexible Triboelectric-Electromagnetic Hybridized Nanogenerator N/A  
Haitao Deng, Zhiyong Wang, Yanyuan Ba, Xinran Zhang, Danliang Wen, Xiaosheng Zhang

A Multifunctional ultrasensitive hybrid optical skin N/A  
Jing Pan, Lei Zhang, Limin Tong

An Integrated Stretchable Sensing Patch for Simultaneously Monitoring of Physiological and Biochemical Parameters 762  
Wenhao Pan, Shiyi Xu, Xiyu Mao, Tianyu Li, Qingpeng Cao, Xuesong Ye, Bo Liang

A Textile Tactile Sensor for Dual-mode Proximity/Pressure Perception in Smart Robotics N/A  
Qinhua Guo, Weiguan Zhang, Zhengchun Peng

Modeling and Simulation of Flexible Vector Shear Flow Sensor Based on COMSOL Multiphysics 770  
Guochang Liu, Wenping Cao, Haoyu Tan, Renxin Wang, Wendong Zhang

A Self-powered retractable device based on triboelectric nanogenerator for sensing of joint and spinal bending/stretching N/A  
Chengyu Li, Di Liu, Chaoqun Xu, Ziming Wang, Sheng Shu, Zhuoran Sun, Wei Tang, Zhonglin Wang

## S10: Micro/Nano Fluidic II

Microfluidic Liquid Metal for Stretchable Biomed-electronics 777  
Xingyu JIANG

Bioinspired Universal Flexible Elastomer-Based Microchannels N/A  
Baiyi Chen, Rongrong Zhang, Hexuan Fu, Xu Hou

Frequency Research of Microfluidic Wear Debris Detection Chip Based on Inductive Wheatstone Bridge 780  
Yucai Xie, Hongpeng Zhang, Haotian Shi, Yuwei Zhang

Liquid Metal-Based Microfluidic for Sperm Thermotaxis. N/A  
Yimo Yan, Ran Liu, Boxuan Zhang



<a href="#">Digital Microfluidics for Efficient and Accurate Molecular Profiling of Single Circulating Tumor Cells</a> <i>Qingyu Ruan, Jian Yang, Fenxiang Zou, Lingling Wu, Zhi Zhu, Chaoyong Yang</i>	N/A
<a href="#">Bubble formation in nanopores</a> <i>Alberto Giacomello, Roland Roth</i>	N/A

## S11: Nanoscale Robotics, Assembly, and Automation

<a href="#">Small-scale Wireless Robots for Medical Applications</a> <i>Metin SITTI</i>	792
<a href="#">Order and Information in the Phases of Spinning Micro-disks</a> <i>Wendong Wang, Gaurav Gardi, Paolo Malgaretti, Vimal Kishore, Metin Sitti</i>	N/A
<a href="#">Single cell manipulation with acoustically powered microrobotic platforms</a> <i>Xiaolong Lu, Ying Wei, Kangdong Zhao, Hui Shen, Wenjuan Liu</i>	N/A
<a href="#">Simulation of the Shape-directed AC Driven Defective Micromotors</a> <i>Rencheng Zhuang, Dekai Zhou, Xiaocong Chang, Longqiu Li</i>	798
<a href="#">3D printing of magnetically actuated miniature soft robots</a> <i>Zhongbao Wang, Yigen Wu, Dezhi Wu, Zhenyin Hai</i>	804
<a href="#">Anisotropic spreading of droplets on striped electrodes</a> <i>Wei Wang, Yanbo Xie, Antoine Riaud</i>	809
<a href="#">Low-cost Micro Search-Coil Magnetic Sensor with Self Calibration for the Internet of Things</a> <i>Hadi Tavakkoli, Izhar, XU ZHAO, Yi-Kuen Lee</i>	813

## S12: Micro/Nano Sensors and Actuators I

<a href="#">Nano size-effect enhanced sensitivity of gas detection</a> <i>Xinxin Li</i>	818
<a href="#">Scalable Synthesis of SnO<sub>2</sub> Nanosheet Arrays on Chips for Ultralow Concentration NO<sub>2</sub> Detection</a> <i>Gaoqiang Niu, Changhui Zhao, Fei Wang</i>	820
<a href="#">Thermovoltage Measurement and Manipulation in Single-molecule Device</a> <i>Junyang Liu, Hang Chen, Ping Zhou, Wenqiang Cao, Wenjing Hong</i>	N/A
<a href="#">A Tungsten-Rhenium Thin Film Thermocouples Sensor Based on AlN Transition Layer</a> <i>Bian Tian, Bingfei Zhang, Zhongkai Zhang, Zhaojun Lliu, Jiangjiang Liu, Gong Cheng, Qijing Lin, Chen Wu, Peng Shi, Zhuangde Jiang</i>	826
<a href="#">Thin Film Antioxidative Coating for High-temperature Thin Film Sensors Made of Polymer-derived Ceramics for Harsh Environment</a> <i>Xiaochuan Pan, Zaifu Cui, Zhenyin Hai, Guochun Chen, Daoheng Sun</i>	N/A
<a href="#">A New Method for Characterization of Single Cell Using System Identification</a> <i>Shuang Ma, Wenxue Wang, Lianqing Liu, Yuechao Wang, Tianlu Wang</i>	832
<a href="#">Reversible Immunoaffinity Interface Enables Dynamic Manipulation of Trapping Force for Accumulated Capture and Efficient Release of Circulating Rare Cells</a> <i>Xiaofeng Chen, Lingling Wu, Chaoyong Yang</i>	N/A

## PS2: Poster Session II

<a href="#">Design and Optimization of Glass Frit Package Structure for Micro Pressure Switch</a> <i>Lingyun Wang, Daner Chen, Heng Xiong, yifang Liu</i>	840
<a href="#">Damage profile model of nanostructure fabricated by Focused Helium Ion Beam</a> <i>Chenglong Liu, Qi Li, Qianhuang Chen, Yan Xing</i>	845
<a href="#">Investigation of Broadening Modulus Range of Soft Probes by Single Beam Acoustic Tweezer</a> <i>Huiyao Shi, Jialin Shi, Peng Yu, Lianqing Liu</i>	849
<a href="#">Vertical Organic Synapse Expandable to 3D Crossbar Array</a> <i>Yongsuk Choi, Seyong Oh, Chuan Qian, Jin-Hong Park, Jeong Ho Cho</i>	N/A
<a href="#">Active-Powering Wearable Iontronic Tactile Sensing for Human Physiological Monitoring</a> <i>Hongyan Sun, Yu Chang, Tingrui Pan</i>	N/A
<a href="#">Negative Differential Resistance Effect in Graphene Nanoribbons Heterojunction</a> <i>li cheng, Yu Zhu, Qingfeng Gong, Wenli Zhou</i>	N/A

3D Printed Kenics Static Micromixer <i>Kunpeng Zhang, Gonghan He, Daoheng Sun</i>	N/A
Viscoelastic deformation and process optimization of polymer microfluidic chip for rapid in-mold bonding <i>Yihua Lei, wangqing Wu, Xiansong He</i>	N/A
Factors Influencing Resolution of Optical Fiber End Face Processing in Digital Lithography <i>Menghan Xiong, Ningning Luo, Zhimin Zhang, Qingwang Meng</i>	864
Study on friction heat generation mechanism by molecular dynamics <i>Changsheng He, Wangqing Wu</i>	N/A
Through Glass Vias by Wet-etching Process in 49% HF Solution Using an AZ4620 Enhanced Cr/Au Mask <i>Guanghui Ding, Binghe Ma, Yuchao Yan, Weizheng Yuan, Jinjun Deng, Jian Luo</i>	872
DNA-directed nanofabrication of ultra-scaled high-performance electronics <i>yahong chen, mengyu zhao, Zhi Zhu, Wei Sun</i>	N/A
The Design of Love Wave Immunosensor for Real-time Detection of Cancer Biomarker from Human Saliva <i>Junyu Zhang, Tao Zhang, Yuantao Chen, Xiaojing Zhang, Hao Wan, Ping Wang</i>	N/A
Measurement of Cardiomyocytes Motion Based on Surface Patterned Polydimethylsiloxane Membrane <i>Si Tang, Jialin Shi, Huiyao Shi, Peng Yu, Lianqing Liu</i>	N/A
An Adaptive Octree Level Set Simulation Method of the Wet Etching Process for the Fabrication of Micro Structure on Sapphire Crystal <i>Ye Chen, Jin Qian, Xinyan Guo, Yan Xing</i>	882
Surface Acoustic Wave (SAW) Devices Based on ScAlN/AlN/Si Layered Structures with Large Figure of Merit <i>Yan Liu, Binghui Lin, Yang Zou, Yao Cai, Wenjuan Liu, Chengliang Sun</i>	N/A
A Flexible AgNPs-PDMS Substrate to Produce Ultrasensitive SERS Detection <i>Guanzhou Lin, Kenan Zhang, Yun Huang, Shengxiao Jin, Tian Kang, Yusa Chen, Liye Li, Peimin Lu, Wengang Wu</i>	889
Fabrication and Properties of Two-Dimensional InSe Top-Gate Transistors and Their Applications in Logic Circuits <i>Wei Li, Xiaozhi Wang</i>	N/A
Voxelated Meniscus-confined Electrodeposition of 3D Metallic Microstructures <i>Yutao Wang, Yuanliu Chen</i>	N/A
A clogging rate prediction model based on porous microarray membranes for liquid biopsies <i>Yinghao He, Yaoping Liu, Wei Wang, Yufeng Jin</i>	898
Biomimetic Electrode–Electrolyte Design for Efficient Electrocatalytic Nitrogen Fixation under Ambient Conditions <i>Yang Liu, Xinyi Zhang, Panagiotis Tsiakaras, Pei Kang Shen</i>	N/A
Micro-droplet of Particulate Suspension Generated by a Pneumatic Ejection System <i>Weijie Bao, Shengnan Sun, Zhihai Wang, Yaohong Wang</i>	904
Tweezers for Micro-droplet Transfer Based on Hydrophobic Non-parallel Plate Structure <i>Jiaqiang Wang, Liguang Chen, Xiongheng Bian, Zaichen Wang</i>	909
Design and Preparation of a High Resolution Accelerometer Based on Graphene <i>Xiaodong Zhao, Yanlu Feng, Wei Zhang, Jianhui Liao</i>	915
Nanorobotic Manipulation inside Scanning Electron Microscope for the Electrical and Mechanical Characterization of ZnO nanowires <i>Mei Liu, Aristide Djoulde, Quan Yang, Weilin Su, Lingli Kong, Jinjun Rao, Jinbo Chen, Zhiming Wang</i>	919
Nano Mechanics Markers for Accessing the Effects of Ultraviolet(UVC) Disinfection <i>Yuxuan Xue, Ning Xi, Kaicheng Huang, Ye Ma</i>	N/A
Multi-pulse triboelectric nanogenerator based on micro-gap corona discharge for enhancement of output performance <i>Ru Wang, Juan Cui, Yong-Qiu Zheng</i>	N/A

Control over Electrical Property of a-InGaZnO Thin Film Transistors using coupled self-assembled molecular layer as Copper Diffusion Barrier. <i>Seungmin Lee, Minkyu Lee, Taeyoon Lee</i>	N/A
Laterally-excited bulk-wave resonators (XBARs) with embedded electrodes in 149.5° Z-cut LiNbO <sub>3</sub> <i>Xiyu Gu, Jieyu Liu, Yao Cai, Yan Liu, Chao Gao, Zhiwei Wen, Shishang Guo, Chengliang Sun</i>	931
Research on Integrated Reliable Micro-High Explosive Train Model <i>Bo He, Wenzhong Lou, Hengzhen Feng, Yuecen Zhao, Yi Sun</i>	935
Spatial and Temperature Control of Exciton Emission by Ferroelectric in Monolayer TMDs <i>bo wen, xi zhang, dongfeng diao</i>	N/A
THz Hybrid Graphene &Metal Patches Metasurface for RCS Reduction and Digital Coding <i>Baolong Wang, Jiayi Yang, Shuangshuang Liu, Wei Xu, Guobin Chen, Di Feng, Lingjie Jia, Yan Meng, Xiuhan Li</i>	941
A Flexible Circuit Fabricated by Tuning the Wettability of Liquid Metal <i>Chengjun Zhang, Qing Yang, Jingzhou Zhang, Jiale Yong, Xun Hou, Feng Chen</i>	N/A
A method for automatic counting and labeling of cells stained with microporous membrane <i>Jiangcheng Cao, Tingting Hun, Wenbo Zhou, Zheng Liu, Wei Wang, Yufeng Jin</i>	949
Design of a Controllable Push-triggered Microfluidic Chip for Vitrification Reagent Loading/unloading <i>Guangyi Cai, Boshi Jiang, Jiaxin Zhu, Fenglin Liu, Tianzhun Wu</i>	953
BMP-2 Immobilized Lubricant-Infused Surface Coating for Orthopedic Implants with Anti-bacterial, Anti-inflammatory, and Osteogenic Functionalities <i>Jaegy Park, Yeontaek Lee, Kijun Park, Jungmok Seo</i>	N/A
Direct and All-dry Microfabrication of Ultramicroelectrode Based on Cold Atmospheric Microplasma Jet <i>Ye Xi, Longchun Wang, Zhejun Guo, Bin Yang, Jingquan Liu</i>	959
Nanopore Surface Charge Sensing with Ion-Step Method <i>Jing Yang, Songyue Chen</i>	963
Research on complex surface patterned conformal manufacturing system based on point cloud theory <i>Kaihan Yao, Junchuan Gao, Gonghan He, Zhenyin Hai, Daoheng Sun</i>	N/A
A coplanar-electrode direct-current triboelectric nanogenerator with facile fabrication and stable output <i>Guoqiang xu, Yunlong Zi</i>	N/A
The Mechanism and Realization of Using Ultrasonic Atomic Force Microscopy to Measure Subsurface Defects of Ultra-precision Components <i>Yuyang Wang, Chengjian Wu, Jinyan Tang, Yuanliu Chen</i>	N/A
Breathable Graphene-based Hydrogel Strain Sensors <i>Xingchi Liu, Hengchang Bi, Xing Wu</i>	N/A
Engineering Application of Micro Surface Acoustic Wave Sensing System in Temperature Detection of Copper BusBars in Transformer Cabinet of Electric Locomotive <i>Tinghan Liu</i>	N/A
Immune-camouflage Coating for Implantable Medical Devices, Bioprinting, and Microfluidics <i>Kijun Park, Yejin Jo, Inwoo Kim, Soyeon Kim, Jungmok Seo</i>	N/A
Slippery coated Implantable flexible microelectrode array (fMEA) for High-Performance Neural Interface <i>MD ESHRAT E ALAHI, Tian Zhou, Sara Khademi, Hao Wang, Tianzhun Wu</i>	980
Light Extraction Efficiency Investigation of AlGaN-Based Deep Ultraviolet Light-Emitting Diodes on Nano-Patterned Sapphire Substrate <i>Wan Hui, Lei Yu, Lan Shuyu, Gong Liyan, Gui Chengqun, Zhou Shengjun</i>	N/A
Equivalent Electrical Model and Experimental Analysis of a Novel Needle-ring Atmospheric Pressure Plasma Microjets Array <i>Lingju Xia, Junfeng Yang, Li Wen</i>	986
A Wearable Health Monitoring System Self-powered by Human-motion Energy Harvester	990

<i>Chen Bao, Anxin Luo, Yi Zhuang, Junlong Huang, Fei Wang</i>	
<a href="#">Improved Reservoir Computing by Carbon Nanotube Network with Polyoxometalate Decoration</a> <i>Shuo Wu, Wenli Zhou, Kaiqiang Wen, Chengzhu Li, Qingfeng Gong</i>	994
<a href="#">2D Microscopy of Magnetic Field Using Atomic Vapor Cell</a> <i>Liu Chen</i>	998
<a href="#">Atomistic resolved signals of amino acids for peptide sequencing by tunneling current analysis</a> <i>Tommaso Civitarese, Giuseppe Zollo</i>	N/A
<a href="#">Single-Molecule Electronics: Recent Advances and Perspectives</a> <i>Junyang Liu, Wenjing Hong</i>	N/A
<a href="#">Tunability of Optoelectronic Oscillator Based on SiO<sub>2</sub> Optical Waveguide Ring Resonator</a> <i>Zerong Jia, Yongqiu Zheng, Jiamin Chen, Liyun Wu, Chen Chen, Chenyang Xue</i>	N/A
<a href="#">Lithographic Properties of Amorphous Solid Water</a> <i>Shan Wu, Ding Zhao, Min Qiu</i>	N/A
<a href="#">Chemical bonding of functional groups in Self-Assembled Monolayer (SAM) for Cu diffusion barrier</a> <i>Minkyu Lee, Taeyoon Lee</i>	N/A
<a href="#">Functionalized Nanochannels for Constructing Ultrasensitive Electrochemical Sensor</a> <i>Wenrui Ma, Shunbo Li, Yi Xu</i>	N/A
<a href="#">The Opposite Anisotropic piezoresistive effect ReS<sub>2</sub></a> <i>CHUNHUA AN, Jing Liu</i>	N/A
<a href="#">Structural Design and Simulation of Ionic Transport and Mass Selection Process in MEMS Time-of-Flight Mass Spectrometry Chip</a> <i>Zongjia Cai, Ming Hao, Tianyuan Qi, Cong Wang, Kun Liu, Renchao Dou, Donghui Meng, Lichen Sun, Rongxin Yan</i>	N/A
<a href="#">Mechanisms of branch tip fusion in meshwork patterns</a> <i>Shan Guo, Mingzhu Sun, Xin Zhao</i>	1018
<a href="#">Leaf-like Self-assembled MXene/ZnOEP Hybrid Network for High-sensitive Temperature Sensing in Electronic Skin</a> <i>Shijie Wan, Weiguan Zhang, Chenyang Xing, Zhengchun Peng</i>	1023
<a href="#">Energy Localization of Lamb Wave Resonator Using Dispersion Engineering</a> <i>Yusi Zhu, Lidong Du, Zhan Zhao, Zhen Fang</i>	N/A
<a href="#">Room temperature linear magnetoresistance in vertically aligned graphene nanocrystalline network film</a> <i>dong ding, xingze dai, chao wang, dongfeng diao</i>	N/A
<a href="#">Preparation of Flame-retardant Lithium-ion Battery Separator by Coaxial Electrospinning</a> <i>Fangqin Shao, Guoyi Kang, Huatan Chen, Zungui Shao, Xiang Wang, Wengwang Li, Gaofeng Zheng</i>	1035
<a href="#">A Numerical Study on the Effects of Mechanical Properties of Red Blood Cells on Rheology in Narrow Microchannels</a> <i>De-Yun Liu, Peng Jing, Xiaolong Wang, Qiaodong Wei, Shenghong Zhang, Xiaobo Gong</i>	N/A
<a href="#">Flexible Transparent Conductive Network Based on Liquid Film Rupture Self-assembly Method</a> <i>Xinran Zhang, Haitao Deng, Danliang Wen, Yanyuan Ba, Haixia Zhang, Xiaosheng Zhang</i>	N/A
<a href="#">An In<sub>2</sub>O<sub>3</sub> Nanotubes based Gas Sensor Array combined with Machine Learning Algorithms for Trimethylamine Detection</a> <i>Wenjie Ren, Changhui Zhao, Yingming Liu, Fei Wang</i>	1042
<a href="#">Study of touch mode MEMS capacitance vacuum gauge with circular diaphragm</a> <i>xiaodong han, Gang Li, Yongjian Feng, Detian Li</i>	N/A
<a href="#">PMUT-Based Air-Coupled Imaging And Surface Stain Detection</a> <i>sheng sun, jianyuan wang, yuan ning, menglun zhang</i>	N/A
<a href="#">3D printed water-soluble UV photopolymer for flexible sensor with sacrificial scaffolds and indirect molding process</a> <i>Chunjiang Wang, Wanhao Niu, Qihang Song, Xiangyu Mi, Jianxu Shi, Xiaoming Chen</i>	N/A
<a href="#">Ultrasensitive Silicon Nanowire Field-Effect Biosensors Enabled by Functionalized with Gold Nanoparticles and Aptamers</a> <i>Qianhui Wei, Jianglan Yang, Han Xiao, Kuo Men, Qingzhu Zhang, Jing Zhang, Feng Wei</i>	N/A

Self-Assembly of Electrospun Polymer Nanofibers: A General Phenomenon Generating Cylinder-Patterned Nanofibrous Structures <i>Tianhao Wu, Daoheng Sun</i>	N/A
The Fabrication Of Three-layer Silicon Stacked Antenna <i>Yang Lei Cao, Jian Zhu, Fang Hou, Min Huang, Zong Lei Jiao</i>	1057
Enhanced trapping stiffness based on SERS embedded microcavity <i>Yanhong Wang, Zhihui Li, Jingzhi Wu, Hengze Yang</i>	N/A
Self-powered electro-tactile system for virtual tactile experiences <i>Yuxiang Shi</i>	N/A
Influence of the Particle Size of Glass Powder on Sintering Characteristics in TGV Packaging <i>yifang Liu, Hongbo Sang, Zhenxiang Bu, Yulong Zhang, Guangen Gao, Lingyun Wang</i>	1065
A self-powered system driven by random human walking energy for wearable healthcare applications <i>Fan Wang, Xiangyu Chen</i>	N/A
An Electromagnetic-Piezoelectric-Triboelectric Hybridized Energy Harvester Towards Blue Energy <i>Yunfei Li, Tianyi Tang, Manjuan Huang, Xin Ma, Zhaohui Chen, Peijuan Cui, Huicong Liu, Lining Sun</i>	1070
Internal Resonant Oscillation in Coupled Resonators for High-resolution Mass Sensing with A Wider Coupling Range <i>Nanxing Li, Cao Xia, Guowen Zheng, Xu Du, Dong F. Wang</i>	1074
An Immersed Boundary Method for Mass Transfer through Porous Biomembranes under Large Deformations <i>Xiaolong Wang, Peng Jing, Qiaodong Wei, Shenghong Zhang, Xiaobo Gong</i>	N/A
Elastic straining of free-standing monolayer graphene <i>Ke Cao</i>	N/A
Multi-order Nonlinearities and Resulting Coherent Oscillations of the States in Quantum Dot-Nanomechanical Resonator Hybrid System <i>xinhe wang, Lin Cong, Guangwei Deng, Kaili Jiang, Xiaoyang Lin, Weisheng Zhao</i>	1084
Investigation the Minimum Measurement Points for Calibration a High Precision NTC Thermistors in Cryogenic Field <i>Gong Xun, Xiaohu Tang, Yanjie Li, Minmin You, Zude Lin, Jingquan Liu</i>	1088
Improve the Efficiency of Sidewall Reflector-type Optical Switch by Combining Inductively Coupled Plasma and Focused-ion-beam Etching <i>haoran xu, Jin Xie, Kaiquan Li, Zhuang Xiong, Weikang Dong, Kometani Reo, Jun Dai</i>	N/A
A Triboelectric Nanogenerator with Gear Transmission for harvesting elastic potential energy <i>Xiaobo Lin, Lanxin Yang, Junfeng Zhong, Zhaoming Deng, Chenyang Xing, Bo Meng, Zhengchun Peng</i>	N/A
A Facile Low-Cost Wireless Self-Powered Footwear System for Monitoring Plantar Pressure <i>huayi huang, Ziya Wang, Zhihao Zhu, Waner Lin, Zhengchun Peng</i>	1096
Investigation of the Reliability of the Interconnection between Metal Electrode and Silicon Anchor in Silicon-on-Glass Process <i>MENGXIA LIU, Xianshan Dong, Jian Cui, Qiancheng Zhao</i>	1102
A bistable criterion for the V-beam mechanism <i>Min Liu, Weidong Wang, Xiao Wang, D SY, Yingmin Zhu, Zimin Huo, Yijia Du</i>	1106
Self-adaptive Microjet Array Cooling for RF High Power GaN Integration on Silicon <i>Miao Yu</i>	1110
Wearable Wireless Sensing System with Ultrasensitive and Self-Cleaning Pressure Sensor for Electronic Skin <i>Xuan Li, Meng Wang, Weidong Wang, Libo Gao</i>	N/A
Effect of deposition pressure on the tribological properties of Ti/WS <sub>2</sub> composite films deposited by magnetron sputtering <i>Jun Ye</i>	N/A
High-temperature Thin Film Temperature Sensor Made of Polymer-derived Ceramics for Harsh Environment <i>Zaifu Cui, Guochun Chen, Xiaochuan Pan, Zhenyin Hai, Daoheng Sun</i>	N/A
A Contactless Switch for Cell Sorting by Area cooling	1126

<i>Yigang Shen, Yaxiaer Yalikun, Yo Tanaka</i>	
<a href="#">Light-confined Plasmonic Probe for Photoelectric Characterization by Atomic Force Microscopy</a> <i>Yaoping Hou, Chengfu Ma, Wenting Wang, Yuhang Chen</i>	N/A
<a href="#">Alumina composite coatings electrical insulating properties on Ni-based superalloy</a> <i>chao wu, Daoheng Sun</i>	N/A
<a href="#">A multi-parameter flexible sensor for detection of water-quality and aquatic animal activities</a> <i>Zhihong Wang, Zheng Gong, Qipei He, Deyuan Zhang, Yonggang Jiang</i>	N/A
<a href="#">Real-time Monitoring and Analysis of Jet Behaviors in Electrohydrodynamic Direct-Writing</a> <i>Yifang Liu, Junyu Chen, Jiabin Jiang, Guoyi Kang, Huatan Chen, Jianyi Zheng, Gaofeng Zheng</i>	1136
<a href="#">Molecular Insights into Distinct Detection Properties of <math>\alpha</math>-Hemolysin, MspA, CsgG, and Aerolysin Nanopore Sensors</a> <i>Wanqi Zhou</i>	N/A
<a href="#">Large-scale Uniformly Hybrid Micro-nano Structure Wetting Solid Substrate for Surface-enhanced Raman Spectroscopy</a> <i>Fanhong Chen, Qi Qi, Yupeng Zhao, Shaoxun Zhang, Yongmin Zhao, Anjie Ming, Changhui Mao</i>	1142
<a href="#">Antibacterial polymeric films with killing and antifouling properties synthesized by initiated chemical vapor deposition</a> <i>Qing Song</i>	N/A
<a href="#">Electroosmotic flow in wild-type and mutated CgsG nanopore</a> <i>Giovanni Di Muccio, Blasco Morozzo della Rocca, Mauro Chinappi</i>	N/A
<a href="#">Surface Free Energy Characterization of Soft Materials through Computational Experiments</a> <i>Francesco Maria Bellussi, Annalisa Cardellini, Lorenzo Chiavarini, Pietro Asinari, Matteo Fasano</i>	N/A
<a href="#">An improved Adaptive Periodical Segment Matrix Algorithm for Signal Denoising in Real-Time ECG Sensing</a> <i>Xinggu Liu, Liang He, Jinhua Li, Zhuqing Wang</i>	N/A
<a href="#">Data Analysis with Machine Learning For High-Accuracy Multi-target Gas Sensor Array</a> <i>Qihong Ning, Chun Huang, Liang He, Jinhua Li, Zhuqing Wang</i>	N/A
<a href="#">Buckled Structure Formation on the Surface of Stretchable Conductive Fibers and Application for Hydrogen Sensor</a> <i>Kukro Yoon, Taeyoon Lee</i>	N/A
<a href="#">A Tunable Quasi-Zero Stiffness Mechanism for Thermal Compensation of a MEMS Gravimeter</a> <i>Xiaopeng Zhang, Xueyong Wei, Yang Gao, Minghui Zhao, Yonghong Qi, Libo Zhao, Zhuangde Jiang</i>	1157
<a href="#">Effect of a hydrophobic gas on the evaporation of water in confinement</a> <i>Antonio Tinti, Gaia Camisasca, Alberto Giacomello</i>	N/A
<a href="#">Electroosmotic Flux in Uncharged Solid-State Nanopores: An Atomistic Simulation Study</a> <i>Matteo Baldelli, Sébastien Balme, Mauro Chinappi</i>	N/A
<a href="#">The realization of ZrOxNy temperature sensors with good sensitivity and stability in the temperature range above 150K</a> <i>Yanjie LI, Minmin YOU, Gong Xun, Xiuyan LI, Zude LIN, Jingquan LIU</i>	1165
<a href="#">NEMS Sensors Based on Suspended Graphene</a> <i>Xuge Fan, Frank Niklaus</i>	1169
<a href="#">On-chip micro/nano devices for energy conversion and storage</a> <i>Lin Xu, Liqiang Mai</i>	N/A
<a href="#">A miniature infrared emitter with ultra-high emissivity</a> <i>Dongsheng Shu, Jifang Tao, Yan Li, Xinye Fan</i>	1175
<a href="#">Ultrathin elastic shape sensor used for endoscope shape reconstruction</a> <i>Leixin Meng, Yuan Zhuang, Liqiang Wang, Qing Yang</i>	N/A
<b>CS2: 学术格莱美讲座</b>	
<a href="#">学术格莱美讲座：如何与编辑沟通？</a> <i>Yan LI</i>	N/A

### IS13: IS: Multidisciplinary Frontier: Soft Rubbery Electronics and Stretchable Integrated Systems

<a href="#">E-skins with superhigh pressure resolution and tough interfaces</a> <i>Chuanfei GUO</i>	N/A
<a href="#">Soft Rubbery Electronics</a> <i>Cunjiang YU</i>	N/A
<a href="#">Three-dimensional soft electronic systems for biomedicine</a> <i>Mengdi HAN</i>	N/A
<a href="#">Design of artificial synapses and sensorimotor neurons</a> <i>Wentao XU</i>	N/A
<a href="#">Rational Design of Dielectric Materials for Flexible Capacitive Pressure Sensing Coatings</a> <i>Zhuo LI</i>	N/A
<a href="#">Mechanics-driven designs of soft network materials and their applications in stretchable integrated devices</a> <i>Yihui ZHANG</i>	N/A

### IS14: IS: Multidisciplinary Frontier: Nanoplasmonics and Biosensors

<a href="#">Surface Plasmon Enhanced Exciton-Polariton Effect in Semiconductor Nanowires</a> <i>Qing ZHANG</i>	N/A
<a href="#">Optical Superoscillation for Label-free Subdiffraction Bioimaging</a> <i>Guanghui Yuan</i>	N/A
<a href="#">Implantable biochip for management of inflammation in lung cancer model</a> <i>Guozhen Liu</i>	N/A
<a href="#">In-Vitro Diagnostic Assays Enabled by Plasmon-Enhanced Photoacoustic Detection</a> <i>Meng Lu</i>	N/A
<a href="#">2D nanomaterials enhanced surface plasmon resonance for sensing applications</a> <i>Shuwen Zeng</i>	N/A
<a href="#">Hybrid metal/dielectric nanosystems and applications</a> <i>Yali Sun</i>	N/A

### IS15: IS: Flexible and Wearable Microsystems for Sensing and Actuation

<a href="#">Trigger-Detachable Hydrogel Adhesives for Bioelectronic Interfaces</a> <i>Ji LIU</i>	N/A
<a href="#">Materials and Devices Designs for Bioelectronic Medicines</a> <i>Jie ZHAO</i>	N/A
<a href="#">Biodegradable materials for electronic medicine and biosensors</a> <i>Lan YIN</i>	N/A
<a href="#">Microscale Optoelectronic Devices for Biological Modulation and Sensing</a> <i>Xing SHENG</i>	N/A
<a href="#">Hybridized and Coupled Nanogenerators</a> <i>Ya YANG</i>	N/A
<a href="#">Deformable Structures for Flexible Smart Materials</a> <i>Zunfeng LIU</i>	N/A

### IS16: IS: Advanced Scanning Probe Technology and Applications

<a href="#">Markerless fabrication of FinFET devices by Thermal Scanning Probe Lithography</a> <i>Armin W. Knoll</i>	N/A
<a href="#">Advanced scanning probes for nanofabrication and nanomeasurement</a> <i>Huan Hu</i>	N/A
<a href="#">Scanning Probe-Assisted Nanowire Circuitry</a> <i>Pablo Ares</i>	N/A
<a href="#">Advanced Lithography for Opto-Electronic Nano-chips</a>	N/A

Xiaorui Zheng

2D materials patterning by oxidation scanning probe lithography N/A  
Yu Kyoung Ryu

Spatially Confined Surface Reactions and Nanopatterning by Cantilever-free Polymer Tip Arrays N/A  
Zhuang Xie

### IS17: IS: Advanced Microsystems for Biomedical Applications

Engineering and measuring systemic multi-organ interactions N/A  
Yi-Chin TOH

Intelligent Drug Delivery System Based on Microneedle Technology N/A  
Jongho PARK

Mechanosensing of biological samples with silicon-based microsystems N/A  
Mehmet Cagatay TARHAN

Single-molecule analysis of bio-molecules and its application N/A  
Rikiya WATANABE

Advanced biomedical microsystems for single-cell analysis N/A  
Soo Hyeon Kim

Surface Enhanced Raman Scattering Sensors for Diseases Detection N/A  
Tianxun GONG

Advanced microfluidics and PCR technology combined for point-of-care diagnostics N/A  
Sisi LI

### IS18: IS: Multidisciplinary Frontier: Advanced Micro/Nano Electronics Plus (Bio-, Photo-, Energy-)

Angstrom-Porous MOF Materials for Efficient Ion Adsorption and Sieving N/A  
Huacheng ZHANG

Surface Free Energy Characterization of Soft Materials through Computational Experiments N/A  
Matteo FASANO

Soliton microcombs: integrated photonics powering metrology N/A  
Qifan YANG

Synthetic Embryology: Merging Stem Cells and Mechanical Microsystems to Forge an Embryo-Free Future for Human Embryology N/A  
Yue SHAO

Controlled Synthesis and Devices Applications of 2D Crystal Arrays N/A  
Yu ZHOU

Active Ionic Artificial Skin: Ion Transport Mechanisms and Prototype Design N/A  
Zicai ZHU

### S13: MEMS/NEMS III

Applications of Flexible Inorganic Thin-film Devices in Bioelectronics 1248  
Yuan LIN

An On-Chip Inductive-Capacitive Sensor for the Detection of Wear Debris and Air Bubbles in Hydraulic Oil 1250  
Haotian Shi, Hongpeng Zhang, Wei Li, Zhiwei Xu, Laihao Ma, Yucai Xie, Dian Huo

AIN Contour Mode Resonators with Half Circle Shaped Reflectors 1255  
Zhifang Luo, shuai shao, Tao Wu

Modeling of magnetic sensor based on BAW magnetolectric coupling micro-heterostructure 1259  
Si Chen, Wanchun Ren, Junru Li, Chunrui Peng, Yang Gao

The 3D Capacitance Modeling of Non-parallel Plates Based on Conformal Mapping 1264  
Yue Feng, Zilong Zhou, Wenlong Wang, Zehong Rao, Yanhui Han

A Mode-localized Mass Sensor with Different Order Modes Coupling Induced by Asymmetric Structures N/A  
Jiahao Song, Jian Zhao, Ming Lyu, Pengbo Liu, Heng Zhong, Xianze Zheng, Yinghai Tang



A Breathing Mode Dual-Ring Resonator with High Quality Factor Operating at Atmosphere Pressure  
Wen Chen, Wenhan Jia, Guoqiang Wu N/A

#### S14: Soft & Flexibe Devices and Applications II

Versatile E-Printing for Flexible Electronics 1277  
Yongan HUANG

A High-Resolution Self-powered Flexible Pressure Sensor Matrix Based on ZnO Nanowires 1279  
Qifeng Lu, Fuqin Sun, Lili Li, Yuanyuan Bai, Zihao Wang, Ting Zhang

Design and Preparation of a Microfluidic System for Stretching of Cells in Topographic Microstructures 1283  
Yingning He, Yuqian Yang, Yexin Gu, Tianjiao Mao, Yue Yu, Jiandong Ding

Stochastic analysis of the elctrothermal microactuator with fabrication error 1287  
Haotian Liu, Hao Chen, Yun Cao, Weirong Nie, Zhanwen Xi, Shenghong Lei

Dynamic Simulation of Nanogenerator Based on Finite Element Model Coupled with Lumped Parameter Elements 1291  
Yao Chu, Ruixing Han, Huiliang Liu, Xiongying Ye, Fei Tang

Direct Ink Writing of Soft Microscale Structures Using Pure Polydimethylsiloxane N/A  
Huyue Chen, Qifan Ding, Wen-Ming Zhang, Lei Shao

All-printed Flexible Tactile Sensors with High Sensitivity and Large Detection Range 1297  
Qifan Ding, Huyue Chen, Wen-Ming Zhang, Lei Shao

#### S15: Micro/Nano Sensors and Actuators II

Heterogeneous Integration for RF application 1301  
Jian ZHU

Chitosan/graphene oxide/MoS<sub>2</sub>/AuNPs modified electrochemical sensor for trace mercury detection 1303  
Ri Wang, Chenyu Xiong, Yong Xie, Mingjie Han, Yuhao Xu, Chao Bian, Shan hong Xia

Visual Chemical Detection Mechanism by a Liquid Gating System with Dipole-Induced Interfacial Molecular Reconfiguration N/A  
Yi Fan, Xu Hou

Quantitative Glucose Measurement on a Synthetic Paper Test Strip 1310  
Weijin Guo, Jonas Hansson, Wouter van der Wijngaart

Organic Field-effect Transistors Based Gas Sensors for Volatile Toluene Detection N/A  
Tengfei Guo, Yuelin Wang, Jian Song, Tie Li

P-dopant Enhanced Organic Thin Film Transistors based Gas Sensors for Volatile Benzenes Detection N/A  
Meng Liu, Yuelin Wang, Jian Song, Tie Li

Coupling Mechanism of the Micro Mass-spring System and Electrothermal Actuator and its application in optical switches N/A  
Changlei Feng, Jin Xie, Kaiquan Li, Zhuang Xiong, Bin Tang, Jun Dai

Improved Design of Polymer Micromachined Transmission for Flapping Wing Nano Air Vehicle 1320  
RASHMI KANT, Daisuke Ishihara, Ryotaro Suetsugu, Sunao Murakami, Prakasha Ramegowda

#### S16: Micro/Nano/Molecular Fabrication II

Atomic-scale Manufacturing based on TEM 1326  
Litao SUN

Research on Melt Electrowriting TPU Hydrophobic Microfiber Mesh for Directional Water Transport 1328  
Zungui Shao, Jiaxin Jiang, Junyu Chen, Huatan Chen, Guoyi Kang, Gaofeng Zheng

Object Manipulation with Freestanding Magnetic Microfibers Fabricated by FDM 3D Printing 1332  
Qing Lu, Ki-Young Song, Yue Feng

Electrochemical Nanoimprint Lithography 1337  
Hantao Xu, Lianhuan Han, Bingqian Du, Qinghui Meng, Yang Wang, Zhen Ma, Zhong-Qun Tian, Zhao-Wu Tian, Dongping Zhan

<a href="#">Adaptive Wavefront Shaping for Direct Laser Ablation Application</a> <i>Chong Kuong Ng, Fan Zhang, Peng Tan, Yuanliu Chen</i>	N/A
<a href="#">Simulation and Experimental Study on Single Pulse Ablation by a Femtosecond laser</a> <i>Fan Zhang, Peng Tan, Chong Kuong Ng, Yuanliu Chen</i>	N/A
<a href="#">Study on the Minimum Size of Molecule by Employing the Single-Molecule Plasmonic Optical Trapping Method</a> <i>Yang Yang, Biao-Feng Zeng, Chun-An Huo, Jia Shi, Wenjing Hong, Zhong-Qun Tian</i>	N/A

## S17: M/NEMS IV

<a href="#">Soft Micro-robots and Micro-actuators: Materials, Design, Control and Applications</a> <i>Lining SUN</i>	1347
<a href="#">Ultrasensitive Mass Sensing Utilizing High-Order Mode Localization of Clamped-Clamped Microbeams with Distributed Electrodes</a> <i>Ming Lyu, Jian Zhao, Pengbo Liu, Jiahao Song, Heng Zhong, Xianze Zheng, Yinghai Tang</i>	N/A
<a href="#">Influence of Mass Loading Effect on Radiation Quality Factor of BAW Magnetolectric Antenna</a> <i>Junru Li, Chunrui Peng, Yang Gao, Wanchun Ren, Xuefeng He</i>	1353
<a href="#">Optical Measurement of the Dynamic Response of an Electrothermal Microactuator</a> <i>Chen Hao, Wang Xingjie, Xi Zhanwen, Wang Jiong, Nie Weirong</i>	1358
<a href="#">A Wearable Strain Sensor Based on Fiber-structured PU/MXene/CNT Composite with Ultra-high Sensitivity and Broad Sensing Range</a> <i>Guoxi Luo, Qiankun Zhang, Yunyun Luo, Ke Chen, Wenke Zhou, Libo Zhao, Zhuangde Jiang</i>	1362
<a href="#">Nonlinear threshold mass sensor using the snap-through phenomenon of a clamped-clamped micromachined arch beam</a> <i>Heng Zhong, Jian Zhao, Ming Lyu, Jiahao Song, Pengbo Liu, Xianze Zheng, Yu Huang</i>	N/A
<a href="#">Feasibility Study of Wearable Muscle Disorder Diagnosing Based on Piezoelectric Micromachined Ultrasonic Transducer</a> <i>Mengjiao Qu, Hong Ding, Xuying Chen, Dengfei Yang, Dongsheng Li, Ke Zhu, Jin Xie</i>	1370
<a href="#">Multifunctional Cardiomyocyte-Based Biosensor for Electrophysiology-Mechanical Beating-Growth Viability Monitoring</a> <i>Dongxin Xu, Jiaru Fang, Ning Hu</i>	1374

## S18: Soft & Flexibe Devices and Applications III

<a href="#">Developing biocompatible and implantable flexible pressure sensors for health monitoring applications</a> <i>Guozhen SHEN</i>	1378
<a href="#">An Electrical Double Layer-based Iontronic Tactile sensor for Detection of Biological Ionic Liquid</a> <i>Yulu Liu, Shuyi Huang, Menglu Li, Xiangyu Zeng, Wei Li, Xiaozhi Wang</i>	N/A
<a href="#">Strain-Engineered Bistable Clamped Thin Films: From Macroscale to Nanoscale Fabrication</a> <i>Guangchao Wan, Ziao Tian, Borui Xu, Yongfeng Mei, Zi Chen</i>	N/A
<a href="#">Highly Sensitive and Flexible Tactile Sensor Based on the Fabrication of Porous Graphene/Silicone Rubber Composites</a> <i>Zhijian Chen, Yancheng Wang, Deqing Mei, Jie Jin</i>	1384
<a href="#">Uniformly distributed self-filling micro-strips for high-performance pressure-sensitive sensor</a> <i>Zhiping Chai, Xingxing Ke, Han Chen, Jiaqi Zhu, Chuanfei Guo, Zhigang Wu</i>	1390
<a href="#">A Sensitive Flexible Strain Sensor via Anisotropy Microstructured Sensitized Surface Resistive Change for Human Motion Monitoring</a> <i>Wenjie Fei, Shuo Zhang, Zhigang Wu</i>	1394
<a href="#">A surface and interior material identification technology based on dual-mode sensor</a> <i>Zhuhui Yin, Ning Li, Weifeng Chen, Yue Jiang, Kaiyang Lan, Jiabin Peng, Zhengchun Peng</i>	1398

## S19: MEMS/NEMS V

<a href="#">MEMS-based platforms for characterization of advanced functional materials</a> <i>Liviù NICU</i>	1403
---	------

<a href="#">Design and Fabrication of A latching Silicon-based MEMS Switch</a>	1405
<i>Tongtong Cao, Tengjiang Hu, Yulong Zhao</i>	
<a href="#">MULTI-MODAL RESONANCE MEASUREMENT CAPABLE OF DISCERNING AND VISUALIZING EFFECTS DUE TO EXCITATION SCHEMES IN MEMS RESONATOR</a>	1410
<i>Bo Xu, Jiankai Zhu, Tongqiao Miao, Jing Li, Qingyang Deng, Song Wu, Ting Wen, Fei Wang, Xiaoping Hu, Xuezhong Wu, Dingbang Xiao, Zenghui Wang</i>	
<a href="#">Nanostructure Vanadium-doped Zinc Oxide Film Sensor Endowed with Enhanced Piezoelectric Response</a>	1415
<i>Wei Gao, Yu Zhang, Binghe Ma, Jian Luo, Jinjun Deng, Weizheng Yuan</i>	
<a href="#">Humidity Sensor with High Resolution and Fast Response Based on AlN Cantilever with Two Groups of Segmented Electrodes</a>	1419
<i>Dongsheng Li, Hanyong Dong, Zihao Xie, Mengjiao Qu, Qian Zhang, Jin Xie</i>	
<a href="#">Design and Fabrication of Integrated Piezoelectric Micropump with Vortex enhancement Optimization</a>	1423
<i>Boshen Liang, Louis Paquet, Yongbin Jeong, Paul Heremans, David Cheyngs</i>	
<a href="#">3D-Printed Sugar Scaffold for High-Precision and Highly Sensitive Active and Passive Wearable Sensors</a>	N/A
<i>Dong Hae Ho, Panuk Hong, Joong Tark Han, Sang - Youn Kim, S. Joon Kwon, Jeong Ho Cho</i>	

## S20: Nanomaterials I

<a href="#">Structure-Controlled Synthesis of Single-Walled Carbon Nanotubes</a>	1430
<i>Yan Li</i>	
<a href="#">A Novel Low-Temperature Post-Curing Transfer Method Of Graphene Wrinkling Surface For Strain Engineering</a>	1432
<i>Kai-Ming Hu</i>	
<a href="#">Synthesis of Porous Co<sub>3</sub>O<sub>4</sub>-ZnO and its Performance for Sensitive Ethanol Detection</a>	1436
<i>Xiao Zhang, Yaohua Xu, Feng Wei, Anjie Ming</i>	
<a href="#">Simultaneous Sensing of Refractive Index and Temperature Using a Symmetry-breaking Silicon Metasurface with Multiple Fano Peaks</a>	1441
<i>Luo Zhao, Guoguo Kang, Junyi Wang, Haiyang Li, Cheng Zhang</i>	
<a href="#">Dynamic Curvature Nanochannel-Based Membrane with Anomalous Ionic Transport Behaviors</a>	N/A
<i>Miao Wang, Xu Hou</i>	
<a href="#">Switchable PDT by a selfassembled FRET quenching nanoparticle</a>	N/A
<i>Ziyang Li, Yu Gao</i>	
<a href="#">Enhanced Ion Sensing Stability with Nanotextured Biosensors</a>	1451
<i>Yanfang Wang, Yuanjing Lin</i>	

## PS3: Poster Session III

<a href="#">Photonic chip-based ultrafast Raman soliton source</a>	N/A
<i>Zhao Li, Qingyang Du, Chaopeng Wang, Jinhai Zou, Juejun Hu, Zhengqian Luo</i>	
<a href="#">Responsive DNA Hydrogel Facilitates Isolation and Retrieval of Circulating Tumor Cells</a>	N/A
<i>SHUGUANG XUAN, HONGTAO FENG, YULIN ZHOU, YUQING HUANG, Yan Chen</i>	
<a href="#">Electron-beam Grayscale Lithography Using Solid Anisole</a>	N/A
<i>Rui Zheng, Ding Zhao, Min Qiu</i>	
<a href="#">Velocity Random Walk Modelling of a Silicon MEMS Resonant Accelerometer based on Non-AGC Control Loop</a>	1461
<i>Dong Li, QianCheng Zhao, Jian Cui</i>	
<a href="#">A Piezoresistive Pressure Microsensor Based on Simplified Fabrication Processes</a>	1465
<i>QingGang Meng, Yulan Lu, Junbo Wang, Deyong Chen, Jian Chen, Bo Xie</i>	
<a href="#">Fabrication and Verification of a Novel Low-g MEMS Inertial Switch</a>	N/A
<i>Min Liu, Weidong Wang, Xiao Wang, D SY, Yingmin Zhu, Yijia Du</i>	
<a href="#">Sensitive Acetone Gas Sensors based on MOF-derived Carbon Nanoparticles-decorated Mesoporous Fe<sub>2</sub>O<sub>3</sub> Nanorods on MEMS</a>	N/A
<i>Li-Yuan Zhu, Kai-Ping Yuan, Xue-Yan Wu, Tao-Tao Wu, Hong-Liang Lu</i>	

<a href="#">Hollow MXene Sphere-based Flexible E-skin for Multiplex Detection of Applied Force</a> <i>Xue-Feng Zhao, Xiao-Hong Wen, Meng-Yang Liu, Hong-Liang Lu</i>	N/A
<a href="#">Triboelectric nanogenerator powered electrowetting-on-dielectric actuators</a> <i>Dongyue Jiang, minyi xu, Jie Tan, Yutao Wang, Penghao Tian</i>	N/A
<a href="#">Mass fabrication of 4H-SiC high temperature pressure sensors by femtosecond laser etching</a> <i>Lukang Wang, You Zhao, Yulong Zhao, Yu Yang, Bo Li, Taobo Gong</i>	1478
<a href="#">3D Hierarchical Nanoarchitecture AuNPs/MXene@PAMAM based Biosensor for cTnT Detection in Human Serum</a> <i>Xin Liu, Yong Qiu, Hao Wan, Liujing Zhuang, Ping Wang</i>	1482
<a href="#">Insight of Volatile Benzenes Sensing Mechanisms for Conjugated Polymer Based Gas Sensors</a> <i>Jian Song, Tengfei Guo, Meng Liu, Yuelin Wang, Tie Li</i>	N/A
<a href="#">Multidimensional characterization of optogenetically engineered cells based on an integrated platform</a> <i>Jia Yang, Lipeng Zu, Wenxue Wang, Ning Xi, Lianqing Liu</i>	N/A
<a href="#">Design and Optimization of Microfluidic System Based on Energy Minimization</a> <i>yike zhou, Daoheng Sun</i>	N/A
<a href="#">Effect of Scan Line Spacing on Laser-Reduced Graphene Oxide Based Temperature Sensing</a> <i>Rui Chen, Wei Zhou, Chiqian Xiao, Tao Luo</i>	1493
<a href="#">High current density electron wind forces in metallic graphene nanoribbons</a> <i>Ji Zhang, Tarek Ragab, Cemal Basaran</i>	N/A
<a href="#">A TENG-pressure combo-sensor for accurate material identification</a> <i>Weifeng Chen, Ning Li, Zhuhui Yin, Yue Jiang, Jiabin Peng, Zhengchun Peng</i>	N/A
<a href="#">Investigation of Flexible Sweat Sensor for Sodium-Ion Concentration with a Combination of Two Sensing Mechanisms</a> <i>Jiufu Zheng, Xuankai Xu, Yunzhi Hua, Xiaojin Zhao, Wei Xu</i>	1502
<a href="#">Long - line transmission design of ocean multi - parameter sensor data based on CR600</a> <i>Xuan Wang, Yongqiu Zheng, Juan Cui, Haoling Zhang</i>	N/A
<a href="#">Sensitive Wide-Frequency-Response Acoustic Sensor Based on Evanescent Field Excited in Semi-buried Optical Waveguide Ring Resonator</a> <i>Yongqiu Zheng, chen chen, Jiamin Chen, Liyun Wu, Yuan Han, Chenyang Xue</i>	N/A
<a href="#">Fabrication of monodisperse magnetic nanorods for improving hyperthermia efficacy</a> <i>Shan Zhao, Nanjing Hao, John X.J. Zhang, P.Jack Hoopes, Fridon Shubitidze, Zi Chen</i>	N/A
<a href="#">Pyro-Electrospinning for the Fabrication of Nanofiber Membrane-Embedded 3D Devices</a> <i>Bin Qiu, feng xu, Shouju Yao, Wenchang Tu, yike zhou, Shanshan You, lingling liu, Tianhao Wu, Daoheng Sun</i>	N/A
<a href="#">Photothermal gel microvalve applied to precise flow control of microfluidic chip</a> <i>Kehan Chen, Jingwen Pan, Minghao Xu, Shuai Wang, wengqiang zhang</i>	N/A
<a href="#">AIN Hybrid-Coupled Resonator With Phononic Crystal Reflector</a> <i>Kangfu Liu, Yuxi Wang, Tao Wu</i>	1517
<a href="#">Multilayered Electret Generator for Self-powered Wireless Data Transmission</a> <i>Zeyuan Cao, Shiwen Wang, Zibo Wu, Rong Ding, Xiongying Ye</i>	N/A
<a href="#">Optimization of S1 Lamb wave resonator with Al0.8Sc0.2N</a> <i>shuai shao, Zhifang Luo, Tao Wu</i>	1523
<a href="#">Structure design and parameter exploration of a new type of plasma anemometer</a> <i>xianlong Liu, Daoheng Sun</i>	N/A
<a href="#">Preparation of nanofiber membrane with controllable pore size and diameter based on auxiliary counter electrode</a> <i>lingling liu, Dangheng Sun</i>	N/A
<a href="#">Optimizing Design, fabrication and calibration of thin film heat flux gauge on ITO/In2O3 thermopile</a> <i>Xin Li</i>	N/A
<a href="#">Super-lightweight flexible wireless optogenetic stimulation device</a> <i>Rui Luo, Ziqi Mei, Zheng You, Dahai Ren</i>	1535

<p><a href="#">Research on the Bouncing-Ball Based Triboelectric Nanogenerator for Self-powered Vibration Frequency Monitoring</a></p> <p><i>Xusheng Zuo, Taili Du, Fangyang Dong, Shunqi Li, Yongjiu Zou, Junhao Zhao, Peng Zhang, Yuewen Zhang, Peiting Sun, Minyi Xu</i></p>	1539
<p><a href="#">Surface modification of 3D printed microfluidic chip</a></p> <p><i>Shanshan You, Kunpeng Zhang, Shouju Yao, lingling liu, Tianhao Wu, yike zhou</i></p>	N/A
<p><a href="#">Design of Piezoelectric Micro-Actuators Design Based on LiNbO<sub>3</sub> Thin Film</a></p> <p><i>Yushuai Liu, Zhiyuan Gao, Kangfu Liu, Tao Wu</i></p>	1545
<p><a href="#">Design of a Miniature Flat Plate-type Propellant actuator for MEMS Safe and Arm Devices</a></p> <p><i>Yaoxiong Wang, Jinhong Huang, Bin Tang, Chongfei Zhang, Jun Dai</i></p>	N/A
<p><a href="#">Patterning multilayer alginate/PCL scaffolds for culturing myocardial tissue</a></p> <p><i>feng xu, qiang gao, bin lin, daohe sun</i></p>	N/A
<p><a href="#">Electrospun Polyimide Nanofiber Separators for Lithium-ion Batteries</a></p> <p><i>Wenwang Li, Bangzhou Che, Jinghua Lin, Sinan Fu, Jiaxin Jiang, Gaofeng Zheng, Xiang Wang</i></p>	1554
<p><a href="#">Design and Research on High Overload Resistance of a Micro-mirror Structure</a></p> <p><i>Qiwei Wang, Jin Xie, Zhuang Xiong, Bing Tang, Jun Dai</i></p>	N/A
<p><a href="#">Simulation and Analysis of Nano Robotic Manipulators Inside SEM</a></p> <p><i>Ziliang He, Lue ZHANG, Zhan Yang</i></p>	1560
<p><a href="#">PEDOT:PSS-based Nanopore Electrochemical Transistor Sensors for Particle Recognition</a></p> <p><i>Lin Li, Feng Zhou, Qiannan Xue, Xuexin Duan</i></p>	N/A
<p><a href="#">Soft Robotic Manipulation System Capable of Stiffness Variation and Dexterous Operation for Safe Human-Machine Interactions</a></p> <p><i>Changyong Cao</i></p>	N/A
<p><a href="#">Ultra-light Metamaterial for Sound Absorption Based on Miura-ori Sandwich Structure</a></p> <p><i>Yixin Wang, Jingwen Guo, Xingru Chen, Yi Fang, Xin Zhang, Hongyu Yu</i></p>	N/A
<p><a href="#">High-temperature Thin Film Heat Flux Sensor Made of Polymer-derived Ceramics for Harsh Environment</a></p> <p><i>Guochun Chen, Zaifu Cui, Xiaochuan Pan, Zhenyin Hai, Daoheng Sun</i></p>	N/A
<p><a href="#">CFD Analysis of Mixing Process in a Cross-shaped Micromixer</a></p> <p><i>Shuai Yuan, Bingyan Jiang, Tao Peng, Mingyong Zhou</i></p>	N/A
<p><a href="#">High-detectivity Infrared Detector Based on Dual-layer Thermopile</a></p> <p><i>zhaohui yang, Gaobin Xu, Shirong Chen, Jianguo Feng, Yuanming Ma, Xing Chen</i></p>	1574
<p><a href="#">A High-Precision Mode Matching Method for Rate-Integrating Honeycomb Disk Resonator Gyroscope</a></p> <p><i>Sheng Yu, Xuezhong Wu, Xiang Xi, Jiangkun Sun, Qingsong Li, Dingbang Xiao, Yongmeng Zhang</i></p>	1579
<p><a href="#">Direct Electron-beam Patterning of Monolayer MoS<sub>2</sub> with Water Ice</a></p> <p><i>Guangnan Yao, Ding Zhao, Yu Hong, Min Qiu</i></p>	N/A
<p><a href="#">Acoustofluidic micromixer with bubble induced ultrasonic microstreaming</a></p> <p><i>PENG Tao</i></p>	N/A
<p><a href="#">An Optical Microphone Based on Fabry-Perot Etalon Stability Structure</a></p> <p><i>Liyun Wu, Yongqiu Zheng, Jiamin Chen, Chen Chen, Xiaoqiang Hua, Chenyang Xue</i></p>	N/A
<p><a href="#">Capacitive Stretchable Strain Sensors Based on Wavy-Structured Metal Electrodes</a></p> <p><i>Siqi YU, Hongyu Yu</i></p>	1589
<p><a href="#">Fabrication of Soft Magnetic Microstructures for Modulation of the Magnetic Field Distribution on the Micrometer Scale</a></p> <p><i>Fengshan Shen, Yan Yu, Yuexuan Li, Hongtao Feng, Yan Chen</i></p>	N/A
<p><a href="#">Soft Interface Design for Electrokinetic Energy Conversion</a></p> <p><i>Jian Zhang, Xu Hou</i></p>	N/A
<p><a href="#">An Underwater Material Recognition Device Based On The Seebeck Effect</a></p> <p><i>Nanxi Chen, Baichuan Shan, Jianhao Liu, Yuhang Fan, Kaiyuan Zhao, Mengze Li, Changxin Liu</i></p>	N/A
<p><a href="#">Patterned Diphenylalanine Nanotubes Regulate the Behavior of Hippocampal Neurons</a></p> <p><i>Lipeng Zu, Huiyao Shi, Jia Yang, Yuanyuan Fu, Wenxue Wang, Ning Xi, Lianqing Liu</i></p>	N/A

Temperature Compensation for MEMS Mass Flow Sensors Based on Back Propagation Neural Network <i>Yan Wang, Shijin Xiao, Jifang Tao</i>	1601
Pressure Induced Transition from Wrinkling to Period-Doubling Instability in Flexible Tactile Sensors <i>Xiuyuan Li, Kai-Ming Hu, Yi-hang Xin, Erqi Tu, Wenming Zhang</i>	1605
Improvement on the Uniformity of Deep Reactive Ion Etch for Electrically Isolated Samples <i>Xiao Hu, Zhihan Zhen, Qiyu Huang</i>	N/A
Design of a novel closed-loop electrostatic voltage sensor based on weakly coupled resonators <i>zilong wang, Zhengwei Wu, Xiangming Liu, Yahao Gao, Simin Peng, Ren Ren, Fengjie Zheng, Yao Lv, Jun Liu, Hucheng Lei, Zhouwei Zhang, Wei Zhang, Jiachen Li, Chunrong Peng</i>	1611
Effect of the pitch on electroforming process of the microchannels <i>Yanzhuo Dong</i>	N/A
The Tunable Deformation of Microfluidic Strain Sensor Based on Auxetic Metamaterial <i>Linna Mao, Dengji Guo, Sirong Huang, Taisong Pan</i>	1617
Effect of the substrate size on accuracy of in-situ stress measurements <i>Jun Qiang, Bingyan Jiang</i>	N/A
Measurement of Comb Frequency and Spacing Stability in Phononic Frequency Comb <i>Qiqi Yang, Liu Xu, Ronghua Huan, Zhuangde Jiang, Adarsh Ganesan, Xueyong Wei</i>	1623
Inductive Effect of Nanofiber Deposition on Groove Structure on Cell Culture <i>Wenchang Tu, yike zhou, Bin Qiu, Shanshan You, lingling liu, Tianhao Wu</i>	N/A
Patterning and immobilization of silver Nanowires for flexible electronics by using Microwave <i>sara khademi, Kiyumars Jalili, Hao Wang, MD ESHRAT E ALAHI, Tianzhun Wu</i>	1629
Rapid Fabrication of Flexible Strain Sensor for Plants Growth Monitoring <i>Yicong Zhao, Jing Niu, Wenxing Huo, Xian Huang</i>	N/A
Temperature and pressure dual-parameter sensing based on Fiber Bragg Grating <i>Na Zhao, Qijing Lin, Liangquan Zhu, Kun Yao, Bian Tian, Libo Zhao, Zhuangde Jiang</i>	1635
Achieving High Energy-Storable Polythiourea Dielectric Materials in Molecular Design through Tuning H-Bonds <i>Yang Feng, Guanghao Qu, Liuqing Yang, Huan Niu, Shengtao Li</i>	N/A
Optical analysis of perovskite light-emitting diodes with nanostructured emissive layer via electrical simulation-assisted dipole location <i>liyang chen, Zhuofei GAN, Dehu CUI, Jingxuan CAI, Wendi LI</i>	N/A
Ultrathin elastic shape sensor used for endoscope shape reconstruction <i>Leixin Meng, Yuan Zhuang, Liqiang Wang, Qing Yang</i>	N/A
Microfluidics for Single-cell Multi-omics Analysis <i>Xing Xu, Chaoyong Yang</i>	N/A
A Biosensor Kit Based on Cu-MOF for Simultaneous Detection the Cortisol and Cyfra21-1 in Human Saliva <i>Xinyi Wang, Tao Zhang, Shuqi Zhou, Liubing Kong, Wencheng Lin, Hao Wan, Ping Wang</i>	N/A
Laser Induced Graphene Patterns on a Thin Polyimide Film via a cooling plate <i>Qixiang Chen, Dezhi Wu, Zhiwen Chen, Hang Yu, Qinnan Chen, Daoheng Sun</i>	1650
A Robotic Dynamic Tactile Sensing System based on Electronic Skin <i>Jishen Dai, Yu Xie, Dezhi Wu, Chen Songyue, Ting Fu, Wei Zhou</i>	1655
Characterization of an Asymmetrical Capacitive MEMS Tilt Sensor <i>Yang Gao, Xiaopeng Zhang, Yonghong Qi, Maeda Ryutaro, Zhuangde Jiang, Xueyong Wei</i>	1660
A Reflective Color Filter Based on ITO-Ba0.5Sr0.5TiO3-ITO Nanofilms Capitalizing on a Black Layer <i>Rui Wang, Jinying Zhang, Bingnan Wang, Xinye Wang, Defang Li, Jingyi Chen, Chenyu Guo, Xin Wang, Zhuo Li, Suhui Yang</i>	1664
High-performance rubbery electronics enabled by elastomeric composite materials <i>Kyoseung Sim</i>	N/A
A flexible rope-like structure sensor based on triboelectric nanogenerator for multifunctional sensing	N/A

<i>Cong Zhao, Anaeli Elibariki Mtui, Xiangyu Liu, Kun Jiang, Jianye Wang, Chuan Wang, Minyi Xu</i>	
<a href="#">Giant Optical Activity in Achiral Plasmonic Au Nanocones Embedded into Alumina Nanohole Arrays</a>	N/A
<i>Yuyi Feng</i>	
<a href="#">Ferroelectric Nanocrack-based Nanoelectromechanical (NEM) Switches for Memory and Complementary Logic</a>	N/A
<i>Yaodong Guan, Zhe Guo, Qiang Luo, Jeongmin Hong, Long You</i>	
<a href="#">Conical Helmholtz Resonator-Based Triboelectric Nanogenerator for Harvesting of Acoustic energy</a>	1676
<i>HongYong Yu, Taili Du, Hongfa Zhao, Qiqi zhang, Ling Liu, yue Huang, Anaeli Elibariki Mtui, Xiu Xiao, Minyi Xu</i>	
<a href="#">3D Cell Electrical Impedance Biosensor for Real-Time Drug Permeability Gradient Effect Monitoring</a>	N/A
<i>Yong Qiu, Xin Liu, Hao Wan, Ping Wang, Liuqing Zhuang</i>	
<a href="#">Triboelectric Nanogenerator for Wind Energy Harvesting and Speed Sensing</a>	N/A
<i>Yan Wang, Chuanqing Zhu, Mengwei Wu, Hao Wang, Xiu Xiao, Guochang Wang, Jianchun Mi, Minyi Xu</i>	
<a href="#">Flexible Triboelectric Nanogenerator for Flow Control</a>	N/A
<i>Chuanqing Zhu, Xiangyi Wang, Mengwei Wu, Jialin Zhang, Chenxing Jia, Guochang Wang, Jianchun Mi, Minyi Xu</i>	
<a href="#">Design and fabrication of a multimode optical fiber surface plasmon resonance urea biosensor</a>	1686
<i>Jiayin Li, Mengdi Han, Ji Wan, Haixia Zhang</i>	
<a href="#">A Resonant Differential Pressure Microsensor With a Stress Isolation Layer</a>	1691
<i>Yadong Li, Chao Cheng, Yulan Lu, Jian Chen, Deyong Chen, Junbo Wang</i>	
<a href="#">A Novel Dual-channel Helmholtz Resonance Acoustic Energy Converter Based on Friction Nanogenerator</a>	1695
<i>Ling Liu, Hongfa Zhao, Zhenhui Lian, Hongyong Yu, Qiqi Zhang, Wenxiang Li, Minyi Xu, Xiu Xiao</i>	
<a href="#">Fabrication of Multi-oriented Composite Nanofibrous Membrane by Electrospinning</a>	1700
<i>Xiang Wang, Yongfu Xu, Jinghua Lin, Sinan Fu, Jiabin Jiang, Gaofeng Zheng, Wenwang Li</i>	
<a href="#">A Breathable and Flexible Epidermal Glucose Sensor</a>	N/A
<i>Hailong Chen, Zhihua Pu, Dachao Li</i>	
<a href="#">Design of Low Sidelobe Level Millimeter-wave Planar Slotted Array Antenna Fed by Ridge Waveguide</a>	N/A
<i>Yan Cao, Yiming Tang</i>	
<a href="#">Modularized Hydrogel-Gate Field-Effect-Transistor Biosensors</a>	N/A
<i>Xiaochuan Dai</i>	
<a href="#">Bandwidth Expansion in Acoustic Filters based on AlN-on-Silicon Resonators</a>	N/A
<i>Jiannan Chen, Cheng Tu, Feilong Li, XIAOSHENG ZHANG</i>	
<a href="#">An Electromagnetic Actuator with Nonlinear Planar Micro-Spring for extended output range</a>	N/A
<i>Xuhan Dai</i>	
<a href="#">A High DC Current Output Salt Battery Hybrid and Enhanced by TENG</a>	1714
<i>shuangshuang liu, Jiayi Yang, Zihao Niu, Yan Meng, Wei Xu, Di Feng, Baolong Wang, Meiqi Wang, Xiuhua Li</i>	
<a href="#">The Influence of Electrode on Elastic Constant C33D Extraction of Scandium-doped Aluminum Nitride Thin Film by Thickness-extensional Mode FBAR</a>	1718
<i>hu xia</i>	
<a href="#">One-step preparation of underwater superoleophobic aluminum-coated copper mesh by pulsed laser cladding for enhanced oil-water separation</a>	N/A
<i>Junjin Lai, Rui Zhou</i>	
<a href="#">A Resonant High Pressure Sensor Based on Dual Cavities Design</a>	1725
<i>Jie Yu, Yulan Lu, Deyong Chen, Junbo Wang, Bo Xie</i>	
<a href="#">MICROFLUIDIC DEVICE FOR ISOLATING CIRCULATING FETAL CELLS</a>	N/A
<i>Huimin Zhang, Chaoyong Yang</i>	
<a href="#">Numerical analysis of laser ablated structural size effect on enhanced anti-icing property of TC4 surface</a>	1732
<i>Zhekun Chen, Rui Zhou, Yuhang Lin, Yi Zhu, Huangping Yan</i>	

<a href="#">Facile access to solvent-dependent luminescent carbon nanoparticles by laser ablation of activated carbon powders</a>	1737
<i>Zhibin Chen, Rui Zhou, Longfan Li, Jingqin Cui</i>	
<a href="#">Fabrication of Superhydrophobic Surface by Inkjet Printing of Nano Silver Seeds on Porous Paper</a>	N/A
<i>Xinghao Zhang, Jin Xie, YU LIU</i>	
<a href="#">A MEMS Voice Coil Motor with a 3D solenoid coil</a>	1745
<i>Jiamian Sun, Zhi Tao, Haiwang Li, Kaiyun Zhu, Donghui Wang, Tiantong Xu, Hanxiao Wu</i>	
<a href="#">Tribovoltaic and Tribo-thermoelectric coupling effect on metal-semiconductor interface</a>	N/A
<i>Zhi Zhang, Chi Zhang</i>	
<a href="#">Full printed flexible pressure sensor based on microcapsule controllable structure and composite dielectrics</a>	N/A
<i>Xiangyou Meng, Jing Zhao, Yaqin Pan, ziyun Han, Lixin Mo</i>	
<a href="#">Nanoscale Triboelectrification Gated Transistor</a>	N/A
<i>Tianzhao Bu, Chi Zhang</i>	
<a href="#">Modulated flexible artificial synaptic transistor based on graphene and ionic gel</a>	N/A
<i>Di Feng</i>	
<a href="#">Preparation and research of ITO thin film strain gauge</a>	N/A
<i>Tao Yang, daoheng sun</i>	
<a href="#">Screen Printing-Based Wearable Multi-Sensing Double-Chain Thermoelectric Generator</a>	N/A
<i>Tao Feng, Danliang Wen, Haitao Deng, Xiaosheng Zhang</i>	
<a href="#">Optical Fiber Waveguiding Soft Photoactuators Exhibiting Giant Reversible Shape Change</a>	N/A
<i>Yongcheng He, Haohua Liang, Jiulin Gan, Zhongmin Yang, Meihua Chen</i>	
<a href="#">Study of strain sensing behavior of self-powered stretchable mechanoluminescent optical fiber</a>	N/A
<i>Haohua Liang, Yongcheng He, Meihua Chen, Jiulin Gan, Zhongmin Yang</i>	
<a href="#">The large piezoelectricity and high-power density of a 3D-printed multilayer copolymer in a rugby the ball-structured mechanical energy harvester</a>	N/A
<i>Xiaoting Yuan, Zhanmiao Li, Zhonghui Yu, Shuxiang Dong</i>	
<a href="#">Tuning and Visualizing Motional Signal Transduction Efficiency in Atomically-Thin Nanoelectromechanical Resonant Structures</a>	N/A
<i>Jiankai Zhu, Jing Li, Xu Bo, Song Wu, Fei Xiao, Yachun Liang, Ting Wen, Fei Wang, Zenghui Wang</i>	
<a href="#">Particle-Filled PHPS Silazane-Based Insulation Coating with High-temperature Electrical Insulating Properties on Ni-based Superalloy Substrates</a>	N/A
<i>J'an Lin, Qinnan Chen, Zaifu Cui, Zhenyin Hai, Daoheng Sun</i>	
<a href="#">Research on torque calculation model of MR fluid-based micro-brake in thermal environment</a>	N/A
<i>Yan Zhang, Ying Liu, Jun Dai</i>	
<a href="#">A Low Power MEMS microheater for MOS Gas Sensor Applications</a>	N/A
<i>Ziwei Lian</i>	
<a href="#">Electron-beam-induced 3D Direct-writing of a Nanoelectrode Array for Intracellular Electrophysiological Recording</a>	N/A
<i>Wenqi ZHANG, Lixin Dong</i>	
<a href="#">Electrically-responsive colloidal particle assembly in ionic surfactant solutions</a>	N/A
<i>Minqi Yang, Lisha Luo, Haiyang Fu, Hongjie Yin, Zhibin Yan, Mingliang Jin, Huicheng Feng, Guofu Zhou, Lingling Shui</i>	

### CS3: 学术奥斯卡讲座

<a href="#">学术奥斯卡讲座：如何做好学术报告？</a>	N/A
<i>Haixia ZHANG</i>	

### IS19: IS: Multidisciplinary Frontier: Micro/Nano-Engineered Materials for Sensing and Applications

<a href="#">Flexible Human-Machine Interacting Sensors</a>	N/A
<i>Yanchao MAO</i>	



Soft Robotic Manipulation System Capable of Stiffness Variation and Dexterous Operation for Safe Human-Machine Interactions <i>Changyong CAO</i>	N/A
Borophene-Based Two-Dimensional Materials and Devices <i>Guoan TAI</i>	N/A
Functional photonic crystals with superwettability <i>Jingxia WANG</i>	N/A
Two-Dimensional Transition Metal Carbides and Nitrides for Terahertz Absorption Technology <i>Xu XIAO</i>	N/A
Room Temperature Gas Sensors Based on Transition Metal Dichalcogenides Heterostructures <i>Zhi YANG</i>	N/A

## IS20: IS: Multidisciplinary Frontier: Functional Micro-nano Structures, Techniques and Applications

Nanoforests and nanoforest-based micro sensors <i>Haiyang MAO</i>	N/A
Bioinspired Catalytic Materials Based on Metal-Sulfur Clusters <i>Jian LIU</i>	N/A
Mass transport in atomic scale confinements <i>Sheng HU</i>	N/A
Quality Heterostructure from Two-Dimensional Materials <i>Yang CAO</i>	N/A
Fiber integrated multifunctional sensing and super-resolution imaging <i>Qing YANG</i>	N/A
The applications of vanadium dioxide thin films on multi-functional sensor <i>Min GAO</i>	N/A

## S21: MEMS/NEMS VI

High Accuracy Resonant Accelerometers Based on QMEMS <i>Yulong ZHAO</i>	1800
INFRARED THERMAL IMAGING SENSOR USING TRANSFERRED RUPHEN-BASED TEMPERATURE SENSITIVE FILM <i>Jialiang LI, Jun Hu, Yufei Zhai, Song Li, Yiming Yuan, Min Wang</i>	N/A
Hybrid Frequency-time Domain Analysis of Bulk Acoustic Wave Circulator <i>yuan jing, zhang bingbin, Wu Chengfeng, gao yang</i>	1804
A Piezoelectric Micromachined Ultrasonic Array with Frequency-selectable Tubes <i>Wei Zhu, Lei Wang, Zhipeng Wu, Wenjuan Liu, Chengliang Sun</i>	N/A
A Micromachined Electrochemical Angular Accelerometer Based on Interdigital Electrodes <i>Tian Liang, Junbo Wang, Deyong Chen, Jian Chen, Bowen Liu, Chao Xu, Wenjie Qi, Xu She, Mingwei Chen, Anxiang Zhong, Yumo Duan</i>	1813
Research on the Stability Threshold and Subharmonic Oscillation in a Parametric Excitation MEMS Resonator <i>Kuo Lu, Kai Wu, Qingsong Li, Xin Zhou, Yongmeng Zhang, Ming Zhuo, Xuezhong Wu, Dingbang Xiao</i>	1817
Preparation and Detection of Micro-nano Electrode Array Based on Chipmunk Hypothalamus in Specific Brain Regions <i>Yiding Wang, Shengwei Xu, Chao Yang, Penghui Fan, Botao Lu, Gucheng Yang, Yinghui Li, Xinxia Cai</i>	N/A
Large-Swing Low-Distortion High Voltage Amplifier Design for MEMS Gyroscopes <i>Hua Chen, Ke Liu, Zhen Meng</i>	1825

## S22: Bio Inspired Multiscale Interfaces

Bio-inspired multiscale adhesive interfacial materials <i>Shutao WANG</i>	1830
Nanokits for Single Cell Analysis	1832

Dechen JIANG

[SWCNTs/PEDOT:PSS Modified Microelectrode Array For Detection Of The Neuronal Electrophysiological Activity Of Cortical Neurons Under Glutamate Stimulation](#) N/A  
*Shihong Xu, Yu Deng, Enhui He, Shenwei Xu, Longzhe Sha, Kui Zhang, Yiling Song, Jinping Luo, Qi Xu, Xinxia Cai*

[MWCNT/PEDOT:PSS Nanocomposites-modified Microelectrode Array For Recording Neural Activity Of hiPSCs-derived Mature Neurons To Different Concentrations Of K+ And Glu](#) N/A  
*Enhui He, You Zhou, Shihong Xu, Kui Zhang, Shengwei Xu, Yilin Song, Jinping Luo, Wanwan Zhu, Qi Xu, Xinxia Cai*

[Bioinspired Liquid Gating Membrane-based Catheter with Anticoagulation and Positionally Drug Release Properties](#) N/A  
*Chunyan Wang, Xu Hou*

[Ultra-thin flexible neuro probe utilizing biodegradable collagen microneedle](#) 1839  
*Dong Huang, Junshu Li, Zhongyan Wang, Zhitong Zhang, Qining Wang, Zhihong Li*

[Fabrication of polymer/metal composite micro/nano array structures and their applications in biological interfaces and actuators](#) 1843  
*Hongxu Chen*

## S23: Nanomaterials II

[Design of Sub-nanometre Pores for Precise Separation](#) 1847  
*Jian JIN*

[Self-powered Flexible Supercapacitor for Human Motion Monitoring](#) N/A  
*Zheng Fan, Hongmei Chen, Yanyun Fan, Danfeng Cui, Shubin Yan, Chenyang Xue*

[Optoelectronic Synapse using MoS2 van der Waals Homo Junction with Interfacial Passivation for Fast Potentiation](#) N/A  
*Yizhen Ke, Lin Lin, Tianxun Gong, XIAOSHENG ZHANG, Wen Huang*

[Bionic Tactile Sensor based on Triboelectric Nanogenerator for Motion Perception](#) 1853  
*Siyuan Wang, Peng Xu, Xinyu Wang, Hao Wang, Changxin Liu, Liguang Song, Guangming Xie, minyi xu*

[Triboelectric Nanogenerator Based on Silver Nanowires](#) N/A  
*Fengru Fan*

[Functionalization and application of inorganic porous nanofibers](#) N/A  
*Yunqian Dai*

## S24: Nature-inspired Energy Conversion and Harvesting: from Fundamentals to Applications

[NEMS-enabled Innovations at Interfaces for Water-Energy Nexus](#) 1861  
*Zuankai WANG*

[Application and Prospect of MEMS Technology to Geophysics](#) 1863  
*Heting Hong, Lvchao Ni, Hongchun Sun*

[Design and Analysis of MEMS Biaxial Coupled Resonance Accelerometer](#) 1867  
*Huimin Zhang, Yating Zhang, Wei Zhang*

[Development of Annular-Shaped Bernoulli Gripper for Contactless Gripping of Large-Size Silicon Wafer](#) 1871  
*Shihang Wang, Yancheng Wang, Deqing Mei, Songqiao Dai*

[Ultrasound-mediated Tough Tissue Adhesives Using Nanoparticles](#) N/A  
*Shuaibing Jiang, Zhenwei Ma, Tony Jin, Edmond Lam, Audrey Moores, Jianyu Li*

[A Self-Powered Angle Sensor at Nanoradian-Resolution for Robotic Arms and Personalized Medicare](#) N/A  
*Ziming Wang, Jie An, Jinhui Nie, Jianjun Luo, Jiajia Shao, Tao Jiang, Baodong Chen, Wei Tang, Zhong Lin Wang*

[Dielectrophoretic microdevice with planar electrodes for concentrating microparticles](#) N/A  
*Salini Krishnan, Alia Mohammed Shaker Alblooshi, Fadi Alnaimat, Bobby Mathew*

## S25: MEMS/NEMS VII

<a href="#">Semiconductor Biosensors for Global Health in the Era of AIoT</a> <i>Yikuen LEE</i>	1885
<a href="#">Frequency Output, A Multi-modes Vacuum Gauge with Highly Output linearity Based on Electrostatic Nonlinearity</a> <i>wang chengxiang, Yunbing Kuang, Wu Yulie, Hou Zhanqiang, Zhang Yongmeng, Wu xuezhong, Dingbang Xiao</i>	1888
<a href="#">High-resolution noncontact electrostatic voltage meter based on microsensor chip</a> <i>Xiaolong Wen, Pengfei Yang, Bo Zhang, Chunrong Peng</i>	1893
<a href="#">Preparation and Characterization of Ni-AAO Composite Scaffold Getter with Induction Heating</a> <i>Lujiang Liu, Lingyun Wang, Zhenxiang Bu, Kuixi Wu, Wenlong Lv, Dandan Gu</i>	1897
<b>S26: Soft &amp; Flexibe Devices and Applications IV</b>	
<a href="#">Bio-Inspired Ionic Skin for Theranostics</a> <i>Peiyi WU</i>	1901
<a href="#">Ultra-flexible and highly transparent hydrogel-based triboelectric nanogenerator for physiological signal monitoring</a> <i>Jiahao Yu, Zhensheng Chen, Haozhe Zeng, Bowen Ji, Zixuan Wu, Jin Wu, Yunjia Li, Jianbing Xie, Honglong Chang, Kai Tao</i>	1903
<a href="#">A Flexible Tactile Sensor for Three-dimensional Force Detection Based on Piezoelectric Sensing</a> <i>Yunyun Luo, Libo Zhao, Guoxi Luo, Zhikang Li, Ping Yang, Qiankun Zhang, Qijing Lin, Zhuangde Jiang, Hongyan Wang, Yongshun Wu</i>	1908
<a href="#">Spontaneous breath analysis and healthcare assessment enabled by triboelectric nanogenerator</a> <i>Yuanjie Su, Mingliang Yao, Guangzhong Xie, Huiling Tai, Yadong Jiang</i>	N/A
<b>S27: Soft &amp; Flexibe Devices and Applications V</b>	
<a href="#">The Reinvention of silk</a> <i>Hu TAO</i>	1914
<a href="#">A Multifunctional Soft Robotic Finger based on Nano Temperature-Pressure Sensor for Material Recognition</a> <i>Xiaoshuang Zhang, Wentuo Yang, Cheng Zhou, Xueyou Sun, Mengying Xie, Xuexin Duan</i>	N/A
<a href="#">Readout of Neural Activity in Mammalian Peripheral Olfactory System via Microelectrode arrays</a> <i>Liujiang Zhuang, Yan Duan, Suhao Wang, Qunchen Yuan, Jizhou Song, Ping Wang</i>	N/A
<a href="#">A Three-electrode Multi-module Sensor for Accurate Bodily-kinesthetic Monitoring</a> <i>Haobin Wang, Yu Song, Hang Guo, Ji Wan, Liming Miao, Chen Xu, Zhongyang Ren, Xuexian Chen, Haixia Zhang</i>	N/A
<b>S28: Micro &amp; Nanotechnologies for Biomedicine</b>	
<a href="#">Biomolecular Needling System for Medicals</a> <i>Beomjoon KIM</i>	1921
<a href="#">Physical Forces Influence the Self-organization of the Formation of Leader Cells During Collective Cell Migration</a> <i>Mengyun Pan, Yongliang Yang, Lianqing Liu</i>	1923
<a href="#">TENG Enhanced and Self-Powered Sensors for Biomedical Signal Detection</a> <i>Jieyu Dai, Zhou Li</i>	N/A