

Paper ID	Session ID	Session Name	Title	Authors	Contact Affiliation
2	Poster session #3-2	Nano/Micro Sensors and Actuators	Research of Meso-Piezoresistive Effect Micromachined Gyroscope	Jun Liu, Kang Du, Ruirong Wang, and Yunbo Shi	Science and Technology on Electronic Test and Measurement Laboratory, China
9	Poster session #1-2	Nano-materials	Fabrication of Reusable Whole PDMS Biochip for Mesenchymal Stem Cell Separation and Enrichment	Zhaoxin Geng, Lingqian Zhang, Yanrui Ju, Fuhua Yang, Wei Wang, and Zhihong Li	Peking University, China
13	Poster session #3-2	Nano/Micro Sensors and Actuators	Virtual Prototyping Simulation for Electrostatically Suspended Rotor Micro Gyroscope Initial Levitation	Dangdang Shao, Wenyuan Chen, Weiping Zhang, Feng Cui, and Qijun Xiao	Shanghai Jiaotong University, China
14	T7	Award finalist session #4	Tunable Multi-functional Optofluidic biconcave lens	Chaolong Song, Trung-Dung Luong, and Nam-Trung Nguyen	Nanyang Technological University, Singapore
15	Poster session #2	Nano/Micro Fabrication	Fabrication of Metal Core and Organic Shell Nanoparticle Packing Film for Plasmon Polariton Waveguide	Kou Yamada, Shigehiko Mori, Masakazu Yamagiwa, Yasuyuki Hotta, Miho Maruyama, Reiko Yoshimura, Tsukasa Tada, and Kenji Tadori	Toshiba Corp., Japan
16	Poster session #3-2	Nano/Micro Sensors and Actuators	Dual-bottom-electrode CMUT Based on Standard CMOS Process	Ting Yu, Xingqiang Lu, and Fengqi Yu	Shenzhen Institute of Advanced Technology, China
18	Poster session #3-2	Nano/Micro Sensors and Actuators	Dense Palladium Nanoparticle Arrays with Controlled Coverage for Fast Hydrogen Sensors	Bo Xie, Linlin Liu, Yue Zhang, Xing Peng, Qian Xu, Mengyang Zheng, Fengqi Song, Guanghou Wang, Toshio Takiya, and Min Han	Nanjing University, China
20	W5	Special invited session: Cross-Strait MEMS/Nano session #3	Nanoparticle Crystal in Tip (NPC-IT): A Facile Scheme For Nanofluidics-Based Biosensing	Wang Wei, Zhou Qing, Wang Wei, Wu Wengang, and Li Zhihong	Peking University, China
21	Poster session #2	Nano/Micro Fabrication	A Pattern Matching Method Using Geometric Information of Images	Ke Wang, Qi Xia, Tielin Shi, Guanglan Liao, and Shiyuan Liu	Huazhong University of Science and Technology, China
22	M2	CNT-based Devices	Integration of Clamped-clamped Suspended Single-walled Carbon Nanotubes into SOI MEMS	Shih-Wei Lee, Matthias Muoth, Lukas Durrer, Cosmin Roman, and Christofer Hierold	ETH Zurich, Switzerland
23	T1	Award finalist session #3	Unexpected Properties of Polymeric DNANanocomplexes Synthesized in Picoliter Droplets	Yi-Ping Ho, Chris Grigsby, and Kam W. Leong	Duke University, USA
24	Poster session #1-1	Nano-materials	XRR and FE-SEM Studies of Nano-Multi-Layer Ceramic Thin Films with Periodic Structures	Jong-Hong Lu, Bo-Ying Chen, and Hua-Chung Tzou	Ming Chi University of Technology, Taiwan
25	W8	Nano/Micro Fabrication V	Confined Fractal Patterns in Gelatin	Lung-Jieh Yang, Chia-Chan Lee, Po-Hung Chen, and Chih-Wen Hsu	Tamkang University, Taiwan
26	Poster session #3-2	Nano/Micro Sensors and Actuators	A Potentiometric Oxygen Sensor based on LaF <sub>3</sub> using Pt Micro Grid as the Sensing Electrode	Guoliang Sun, Hairong Wang, Zhuangde Jiang, and Junqiang Ren	Xi'an Jiaotong University, China.

27	M3	Nano/Micro Fluidics I	A High-throughput Perfusion-based Micro Three-dimensional Cell Culture Platform	Song-Bin Huang, Min-Hsien Wu, Shih-Siou Wang, and Gwo-Bin Lee	National Cheng Kung University, Taiwan
28 (492)	Poster session #1-2	Nano/Micro Fluidics	Resonant Properties of Piezoelectric Cantilever Transducers Fabricated on the SiC Membrane	Jae Hong Park, Kiyong Choi, Dong-Yeon Lee, Jaesool Shim, and Tae Song Kim	National NanoFab Center, South Korea
29	Poster session #2	Nano/Micro Fabrication	Optimization of Functional Layers in Piezoelectric Thick Film MEMS Process	Dong-Yeon Lee, Jaesool Shim, Tae Song Kim, and Jae Hong Park	Yeungnam University, South Korea
30	Poster session #1-2	Nano-materials	Three-dimensional Cellular Focusing Utilizing Negative Dielectrophoretic Force Generated by Dual-planar Electrodes	Ching-Te Huang, Cheng-Hsin Weng, and Chun-Ping Jen	National Chung Cheng University, Taiwan
31	M3	Nano/Micro Fluidics I	A Suction-type, Pneumatic Microfluidic Device for Rapid DNA Extraction	Sung-Yi Yang, Chen-Hsun Weng, and Gwo-Bin Lee	National Cheng Kung University, Taiwan
32	T7	Award finalist session #4	High-speed Pulsed Mixing with High-frequency Switching of Pumping from Three Inlet Microchannels	Koji Sugano, Hideaki Yoshimune, Akihiro Nakata, Yoshikazu Hirai, Toshiyuki Tsuchiya, and Osamu Tabata	Kyoto University, Japan
33	M9	Bio Devices and System I	Manipulation and Impedance Measurement of Single HeLa Cells Based on the Dielectrophoresis Microwell	Kung-Chieh Lan, Ming-Kun Chen, Chia-Feng Liu, and Ling-Sheng Jang	National Cheng Kung University, Taiwan
34	Poster session #1-2	Nano-materials	A Simple Fabrication Process for an Efficient Constriction-based Dielectrophoretic Continuous Flow Sorter	Sven Salomon, Thierry Leïchlé, Remy Fulcrand, David Bourrier, Ali Boukabache, Anne-Marie Gué, and Liviu Nicu	LAAS, France
35	M9	Bio Devices and System I	Rapid Isolation and Detection of Methicillin-Resistant Staphylococcus Aureus by using a microfluidic system	Yu-Hsin Liu, Kang-Yi Lien, Chih-Hung Wang, Jiunn-Jong Wu, and Gwo-Bin Lee	National Cheng Kung University, Taiwan
38	W7	Misc. I	Diode Uncooled Infrared Focal-Plane-Array and CMOS Readout System	Weibing Wang, Dapeng Chen, Anjie Ming, Zhuolei Huang, Cheng Peng, and Wen Ou	Chinese Academy of Sciences, China
41	W3	Gas Sensors	A Low Power Catalytic Combustion Gas Sensor Based on a Suspended Membrane Microhotplate	Lei Xu, Tie Li, Xiuli Gao, Yuelin Wang, Rui Zheng, Lei Xie, and Lichung Lee	Chinese Academy of Sciences, China
44	M9	Bio Devices and System I	DNA Transfection of Bone Marrow Mesenchymal Stem Cells Using Micro Electroporation Chips	Peigang Deng, Donald C. Chang, Yi-Kuen Lee, Junwei Zhou, and Gang Li	Hong Kong University of Science and Technology, Hong Kong
45	Poster session #3-1	CNT-based Devices	Atomic Force Microscopy Based Nano Manipulation towards CNT-ISFET pH Sensing System	Zhuxin Dong, Uchechukwu C. Wejinya, Siva Naga S. Chalamalasetty, and Matthew R. Margis	University of Arkansas, USA
46	W6	Special invited session: Micro and Nano Technology in Biomedical Applications	Plasma Lithography for Probing Collective Cell Behaviors	Pak Kin Wong	University of Arizona, USA
47	Poster session #3-1	CNT-based Devices	A Study on the Properties of Photoconductivity and Photo voltage of Buckpaper	J. L. Ciou, H. Y. Miao, and J. H. Liu	Tunghai University, Taiwan
48	M6	Micro Actuators	A Large-Stroke Deformable Mirror by Gear Shaped IPMC Design	Hsiang-Chun Wei and Guo-Dung John Su	National Taiwan University, Taiwan

49	M3	Nano/Micro Fluidics I	Tunable Magnetic Alginate Microbeads by Using a Spotting-based Alginate Microbead Generator and Its Applications for Immunoassay-based Diagnosis	Ruo-Chi Hsu, Ming-Yang Lin, Kang-Yi Lien, Line-Yu Hung, Fong-Yu Cheng, Chih-Chia Huang, Chen-Sheng Yeh, Huan-Yao Lei, and Gwo-Bin Lee	National Cheng Kung University, Taiwan
50	T1	Award finalist session #3	Single Cell Impedance Analysis and Electrical Characterization in Micro-fluidic Device	Chia-Feng Liu, Jen-Yu Jao, Ming-Kun Chen, Ya-Chun Chuang, Pin-Chian Wu, and Ling-Sheng Jang	National Cheng Kung University, Taiwan
51	Poster session #1-1	Nano-materials	Heating Effect on Electroluminescence Spectra of InGaN/GaN Heterostructures	Ya-Fen Wu, Jeng-Kuang Huang, Wei-Shiang Tzeng, and Jiunn-Chyi Lee	Ming Chi University of Technology, Taiwan
52	Poster session #1-2	Nano-materials	Analysis of Squeeze-film Air Damping of Thick Perforated Plate in MEMS Device	Zelong Zhou and Xiong Wang	National University of Defense Technology, China
53	M8	Nano/Micro Fabrication I	Characteristics of Metal-Pb(Zr <sub>0.53</sub> Ti <sub>0.47</sub> )O <sub>3</sub> -TiO <sub>2</sub> -Si Capacitor for Nonvolatile Memory Applications	Changjian Zhou, Pinggang Peng, Yi Yang, and Tianling Ren	Tsinghua University, China
54	Poster session #1-1	Nano-materials	Design and evaluation of quantum dot sensors for making superficial x-ray energy radiation measurements	Q S Kang, J T W Yeow, R Barnett, and X Gao	University of Waterloo, Canada
55	Poster session #1-2	Nano-materials	Fractal Grooves Applied to Passive Micro-Mixers	A-Fu Kao, Lung-Jieh Yang, and Fu-Wen Yeh	Tamkang University, Taiwan
56	W5	Special invited session: Cross-Strait MEMS/Nano session #3	Fabrication and Characterization of SiC Thin Films	Zhang Hai-Xia, Liu lei, Tang wei, Zheng baixiang, and Zhang Hai-Xia	Peking University, China
57	Poster session #3-2	Nano/Micro Sensors and Actuators	Fabrication of Temperature and Carbon Monoxide Micro-Sensors in a Micro-Reformer	Chi-Yuan Lee, Yu-Ming Chang, and Chi-Chung Chang	Yuan Ze University, Taiwan
58	Poster session #2	Nano/Micro Fabrication	Influence of thickness on structural and optical properties of evaporated SnS films	Shuying Cheng and Hong Zhang	Fuzhou University, China
60	M2	CNT-based Devices	The Effect of Electrode Physical Design Parameters on the Assembly of Single-walled Carbon Nanotubes by AC Dielectrophoresis	Zhihui Wang, Wei Li, and Jinwen Zhang	Peking University, China
62	M6	Micro Actuators	Development of PZT-based Ultrasonic Concave Diaphragm Transducer with Engineerable Acoustic Beam Focal Range	Guo-Hua Feng and Zhi-Dian Lin	National Chung Cheng University, Taiwan
63	W8	Nano/Micro Fabrication V	Post CMOS Integration of High Aspect Ratio SOI MEMS Devices	L.N.Sun, L.Qian, P.Z.Hong, G.Z.Yan, and Z.C.Yang	Peking University, China
64	M7	Award finalist session #2	Fabrication of ring-shaped silicon resonator using (2,1) in-plane resonance mode	Kenta Suzuki, Kumiko Ioka, and Yasuhiro Nishioka	Nihon University, Japan
65	W10	Misc. II	Characterization of Flame-made Pt-doped WO <sub>3</sub>	Thanittha Samerjai, Nittaya Tamaekong, and Sukon Phanichphant	Chiang Mai University, Thailand

66	M6	Micro Actuators	Optimizing the performance of a novel seesaw-swivel actuator for a holographic module	Yu-Cheng Lin, Po-Chien Chou, and Stone Cheng	National Chiao Tung University, Taiwan
67	M6	Micro Actuators	Arbitrary Axis Rotating Surface Acoustic Wave Micro Motor	Ricky T. Tjeung, Mark S. Hughes, Leslie Y. Yeo, and James R. Friend	Monash University, Australia
69	M8	Nano/Micro Fabrication I	Epoxy-Based Permeable Membrane Fabrication for 3D Microfluidic Device	Yoshikazu Hirai, Yusuke Nakai, Yoshihide Makino, Koji Sugano, Toshiyuki Tsuchiya, and Osamu Tabata	Kyoto University, Japan
71	W9	Bio Devices and System III	Imaging and Measuring the Protein Distribution of Lymphoma Cells Using Atomic Force Microscopy	Mi Li, Lianqing Liu, Ning Xi, Yuechao Wang, Zaili Dong, Guangyong Li, Osamu Tabata, Xiubin Xiao, and Weijing Zhang	Chinese Academy of Sciences, China
72	Poster session #2	Nano/Micro Fabrication	Design, Fabrication and Actuation of 4-axis Thermal Actuating Image Stabilizer	Chun-Ying Lin, Tsung-Ying Tsai, Jin-Chen Chiou, and Chin-Ping Chien	National Chiao Tung University, Taiwan
73	W12	Misc. III	Capillary Filling in Closed End Nanochannels	Vinh Nguyen Phan, Nam-Trung Nguyen, Chun Yang, Pierre Joseph, Lyes Djeghlaf, David Bourrier, and Anné-Marie Gué	Nanyang Technological University, Singapore
74 (538)	M3	Nano/Micro Fluidics I	Configurable Assembly of DNA origami on MEMS by Microfluidic Device	Chunmei Huang, Takahiro Saeki, Masayuki Endo, Hiroshi Sugiyama, Chen-Hsun Weng, Gwo-Bin Lee, Koji Sugano, Toshiyuki Tsuchiya, and Osamu Tabata	Kyoto University, Japan
75	M12	G Sensors	An Integrated Reduced Micromachined Inertial Measurement Unit for Land Vehicle Navigation	Honglong Chang, Qianyan Fu, Qiang Shen, Jianbing Xie, and Weizheng Yuan	Northwestern Polytechnical University, China
77	Poster session #1-2	Nano-materials	ZnO/sapphire based layered surface acoustic wave devices for microfluidic applications	Ricky T. Tjeung, Devendra K. Maurya, Leslie Y. Yeo, and James R. Friend	Monash University, Australia
79	Poster session #2	Nano/Micro Fabrication	Fabrication of Superhydrophobic Wide-band “Black Silicon” by Deep Reactive Ion Etching	Tian-Le Gao, Xiao-Sheng Zhang, Guang-Yi Sun, and Hai-Xia Zhang	Peking University, China
80	Poster session #2	Nano/Micro Fabrication	A novel thermal switch design by using CMOS MEMS fabrication process	Lei-Chun Chou, You-Liang Lai, Ying-Zong Juang, Chun-Yin Tsai, Chun-Ying Lin, Sheng-Chieh Huang, and Jin-Chern Chiou	National Chiao Tung University, Taiwan
81	Poster session #2	Nano/Micro Fabrication	Development of TSV Simulator: FASTsv	Fuyun Zhu, Chen Wang, Min Yu, Xin Zhao, Yufeng Jin, and Haixia Zhang	Peking University, China
83	Poster session #3-2	Nano/Micro Sensors and Actuators	A Novel Acceleration Switch With Hat-like Contact Separated From Proof Mass	Xiaoyang Zhang, Zhongyang Guo, Longtao Lin, Qiancheng, Zhao, Junjie Yan, Zhenchuan Yang, and Guizhen Yan	Peking University, China
84	Poster session #2	Nano/Micro Fabrication	Enhancement of optical properties using bridge type electrodes for high efficiency photovoltaic cell	D. Y. Kong, S. H. Jung, J. H. Jo, C. T. Seo, J. H. Lee, and C. S. Cho	Kyungpook National University, South Korea
85	Poster session #2	Nano/Micro Fabrication	Macroporous Polystyrene Films Obtained via Colloidal Crystal Template	Jing Wang , Bing Qu , and Chao Pan	Dalian Ocean University, China
87	Poster session #2	Nano/Micro Fabrication	Self-Assembled Nested Wrinkling Patterns with Pre-Stretched Polymer Substrates	Jing Wang, Bing Qu , and Chao Pan	Dalian Ocean University, China
89	Poster session #3-2	Nano/Micro Sensors and Actuators	In Situ Monitoring of Voltage and Temperature in Lithium Batteries	Chi-Yuan Lee, Shuo-Jen Lee, Chien-Te Hsieh, Ming-Shao Tang, Jia-Yi Lin, Yi-Man Lo, Pei-Chi Chen, Dar-Yuan Chang, and Ruey-Shin Juang	Yuan Ze University, Taiwan

91	M1	Award finalist session #1	Study of Droplets Motion on a Chip Driven by Thermal Gradient	Anran Gao, Tie Li, and Xiang Liu	Chinese Academy of Sciences, China
92	Poster session #1-2	Nano-materials	Design and fabrication of an advanced rhombic micromixer with branch channels	C.K. Chang, T.R Shih, and C.K. Chung	National Cheng Kung University, Taiwan
93	W1	Power/RF MEMS	Fabrication and Characteristics of Tunable BandPass Filter Using MetalMumps technology	Leijie Lang, Yu Xia, Xiuhan Li, Yu Liu, Dongming Fang, Haixia Zhang	Peking University, Beijing, China
94	Poster session #3-2	Nano/Micro Sensors and Actuators	Studies of the electromechanical coupling characteristics based on cantilever-mass	Chenyang Xue, Zhenxin Tan, Weili Shi, Jun Liu, Binzhen Zhang, Jijun Xiong, and Wendong Zhang	North University of China, China
95	M5	NEMS	Fabrication and Characterization of 100-nm Wide Silicon Nanocantilevers using Top-Down Approach	Samuel Guillon, Daisuke Saya, Laurent Mazonq, Liviu Nicu, Sorin Perisanu, and Pascal Vincent	University of Toulouse, France
98	W3	Gas Sensors	F-doped Nanocrystalline SnO <sub>2</sub> Thin Films for Liquid Petroleum Gas (LPG) Sensors	S. Chaisitsak	King Mongkut's Institute of Technology Ladkrabang, Thailand
99	T1	Award finalist session #3	NanoCluster Beacon – A New Molecular Probe for Homogeneous Detection of Nucleic Acid Targets	Hsin-Chih Yeh, Jaswinder Sharma, Jason J. Han, Jennifer S. Martinez, and James H. Werner	Los Alamos National Laboratory, USA
100	M4	Nano-photonics	Photonic Crystal Based Beam Aperture Modifier and Deflector	Mengqian Lu, Bala Krishna Juluri, Sz-Chin Steven Lin, and Tony Jun Huang	The Pennsylvania State University, USA
102	T6	Optical MEMS	Development of a Novel ODEP Chip using Polymer Photoconductive Material and FTO Electrode	Shue Wang, Wenli Zhou, Zaili Dong, Yanli Qu, Lei Zhou, Zhu Liu, Shenglin Jiang, Yan Yu, G. B. Lee, and Wen J. Li	Chinese Academy of Sciences, China
104	Poster session #3-2	Nano/Micro Sensors and Actuators	Improvement of Transient Response for Drive Loop of Microgyroscope using 2-DOF PID Controller	Jian Cui, Zhongyang Guo, Zhenchuan Yang, Yilong Hao, and Guizhen Yan	Peking University, China
105	Poster session #3-2	Nano/Micro Sensors and Actuators	Switching Characteristics of a Thermally-stable Metal Contact RF MEMS Switch	Peigang Deng and Ping Wang	Peking University, China
106	M3	Nano/Micro Fluidics I	A Miniaturized Surface Acoustic Wave Atomizer with a Disposable Pump-free Liquid Supply System for Continuous Atomization	Aisha Qi, James Friend, and Leslie Yeo	Monash University, Australia
107	M12	G Sensors	Effect of Parasitic Resistance on a MEMS Vibratory Gyroscopes due to Temperature Fluctuations	Zhanqiang Hou, Dingbang Xiao, Xuezhong Wu, Peitao Dong, Zhengyi Niu, Zelong Zhou, and Xu Zhang	National University of Defense Technology, China
109	M8	Nano/Micro Fabrication I	Wet Processes for Conductive Layer of Silver and Insulating Layer Al <sub>2</sub> O <sub>3</sub> for Thin-film Transistor	C.F. Liu, C.T. Pan, J. K. Tseng, and Y.J. Chen	R.O.C. Military Academy, Taiwan
111	Poster session #3-2	Nano/Micro Sensors and Actuators	Design and Fabrication of a Piezoelectric Micro Synthetic Jet Actuator	Jinjun Deng, Weizheng Yuan, Jian Luo, Dandong Shen, and Binghe Ma	Northwestern Polytechnical University, China
112	Poster session #2	Nano/Micro Fabrication	Silicon Nano-column Fabricated by Catalytic Etching for Electrode of Fuel Cell	Mao-Jung Huang, Chun-Ting Lin, Chun-Ming Chang, Nien-Nan Chu, Ming-Hua Shiao, Chii-Rong Yang, Yuang-Cherng Chiou, and Rong-Tsong Lee	National Applied Research Laboratories, Taiwan

115	Poster session #2	Nano/Micro Fabrication	A method to fabricate micro lens array with different diameters	Sheng-Yuan Feng, Hsin-Ta Hsieh, and Guo-Dung John Su	National Taiwan University, Taiwan
116	W12	Misc. III	Development of the Biopolymeric Optical Planar Waveguide	Seung. H. Yoon, Sang. M. Lee, Kyung. J. Kim, Kyung. C. Kim, Min. C. Oh	Pusan National University, South Korea
117	W5	Special invited session: Cross-Strait MEMS/Nano session #3	Evaluating Micro-/Nano-Reliability of A Receptor-based MEMS/NEMS Sensor	Hu Zhiyu	Institute of NanoMicroEnergy, China
118	M5	NEMS	Fabrication and Characterization of a Novel Suspended-Nanowire-Channel Thin-Film Transistor with Nanometer Air Gap	Chia-Wei Hsu, Chia-Hao Kuo, Hsing-Hui Hsu, Horng-Chih Lin, and Tiao-Yuan Huang	National Chiao Tung University, Taiwan
119 (507)	M1	Award finalist session #1	Design and Fabrication of Long Focal Length Microlens Arrays	Vinna, Hsin-Ta Hsieh, Jo-Lan Hsieh, and Guo-Dung John Su	National Taiwan University, Taiwan
120	M8	Nano/Micro Fabrication I	SERS-active Substrates Based on Metallic Nanocracks on PDMS	Haiyang Mao, Chuang Qian, Pengpeng Lv, and Wengang Wu	Peking University, China
121	Poster session #1-2	Nano-materials	A Passive Biomimic PDMS Valve Applied in Thermopneumatic Micropump for Biomicrofluidics	Y. C. Ou, Y. H. Tang, Y. H. Lin, C. C. Yang, N. N. Chu, S. Y. Hsiao, and C. S. Yu	National Applied Research Laboratories, Taiwan
122	Poster session #3-2	Nano/Micro Sensors and Actuators	A New Process for Thermally Stable CMOS MEMS Capacitive Sensors	S. S. Tan, C. Y. Liu, L. K. Yeh, Y. H. Chiu, and Klaus Y. J. Hsu	National Tsing Hua University, Taiwan
123	W3	Gas Sensors	Polymer-Coated Surface Acoustic Wave Sensor Array for Low Concentration NH <sub>3</sub> Detection	Yi-Tian Li, Hsu-Chao Hao, Mei-Ching Chen, Tai-Hsuan Lin, Pei-Hsin Ku, Chia-Min Yang, Kea-Tiong Tang, and Da-Jeng Yao	National Tsing Hua University, Taiwan
126	M12	G Sensors	A method to reduce notching effect on the anchors of a micro-gyroscope	Peizhen Hong, Zhongyang Guo, Zhenchuan Yang, and Guizhen Yan	Peking University, China
129	T6	Optical MEMS	A miniaturized suspension structure for precise flying height positioning measurement using a swing arm actuator with HOE module sensor	Po-Chien Chou, Yu-Cheng Lin, Kuan Chou Hou, Stone Cheng, and Jin Chern Chiou	National Chiao Tung University, Taiwan
130	T7	Award finalist session #4	Microplatforms for Avian Malaria Studies	Yu-Hsiang Hsu, Peiran Lu, and William C. Tang	University of California, USA
131	Poster session #2	Nano/Micro Fabrication	Fabrication of Sub-40 nm Nanofluidic Channels using Thin Glass-Glass Bonding	Yi-Kai Lin and Ju-Nan Kuo	National Formosa University, Taiwan
132	Poster session #1-2	Nano-materials	Frequency Controlled Ultrasonic Microfluidic Chip for Rapid Particle Manipulation	Guo-Hua Feng and Shu-Xiang Yang	National Chung Cheng University, Taiwan
133	T4	Nano/Micro Sensors	The Deflection Length and Emitter Width on Sensitivity of Magnetotransistor	Toempong Phetchakul, Panyakorn Sottip, Chana Leepattarapongpan, Narichapan Penpondee, Putapon Pengpad, Arckom Srihapat, Chandet Hruanun, and Amporn Poyai	King Mongkut's Institute of Technology Ladkrabang, Thailand

134	M2	CNT-based Devices	Investigation on Temperature Effect on Alcohol Sensing of Multi-Walled Carbon Nanotube	Toempong Phetchakul, Assuchol Sangnual, and Chalin Sutthinet	King Mongkut's Institute of Technology Ladkrabang, Thailand
135	T2	Nano/Micro Fabrication II	Electrodeposition and Characterization of CoNiMnP-based Permanent Magnetic Film for MEMS Applications	Xu-Ming Sun, Quan Yuan, and Dong-Ming Fang, and Hai-Xia Zhang	Peking University, China
137	M1	Award finalist session #1	A Nanochannel System Fabricated by MEMS Microfabrication and Atomic Force Microscopy	Zhiqian Wang, Dong Wangm, Niandong Jiao, Steve Tung, and Zaili Dong	Chinese Academy of Sciences, China
138	Poster session #1-2	Nano-materials	Dynamic Evaporating Evolution of Profiles for Micro Droplets on Flat Surfaces with Hydrophilic and Hydrophobic Treatments	Kun-Ze Tu and Chin-Tai Chen	National Kaohsiung University of Applied Sciences, Taiwan
140	T6	Optical MEMS	Two Optofluidic Devices for the Refractive Index Measurement of Fluids	Kuo-Sheng Chao, Tsung-Yu Lin, and Ruey-Jen Yang	National Cheng Kung University, Taiwan
141	M10	Nano-materials I	Relationship between the Size of SiO <sub>2</sub> Nano Spheres and the Structure Color	Xi Li, Jiawen Li, Jinjin Li, Yi Liu, and Wenhao Huang	University of Science and Technology of China, China
142	Poster session #1-1	Nano-materials	Methanol Oxidation Boosted under Various Illumination Conditions on Pt-TiO <sub>2</sub> Hybrid Electrodes	Chun-Ting Lin, Hung Ji Hung, Yu-Zheng Su, Jr-Jung Yang, Nien-Nan Chu, and Ming-Hua Shiao	National Applied Research Laboratories, Taiwan
143	T2	Nano/Micro Fabrication II	DNA as a Template in Self-Assembly of One-Dimensional Au Nanostructure	Dau-Chung Wang, Gen-You Chen, Ken-Yen Chen, and Cheng-Hsien Tsai	National Yunlin University of Science and Technology, Taiwan
144	M1	Award finalist session #1	CMOS compatible Process for Suspended High-Aspect-Ratio Integrated Silicon Microstructures	Liang Qian, P.Z. Hong, L.N. Sun, Z.C. Yang, and G.Z. Yan	Peking University, China
145	M12	G Sensors	A TIA-based Readout Circuit with Temperature Compensation for MEMS Capacitive Gyroscope	Tao Yin, Huanming Wu, Qisong Wu, Haigang Yang, and Jiwei Jiao	Chinese Academy of Sciences, China
147	Poster session #1-1	Nano-materials	Effect of the Cubic anisotropy on the Angular Dependence of the Exchange Bias	Yuhao Bai, and Guohong Yun	Inner Mongolia University, China
149	T2	Nano/Micro Fabrication II	Fabrication and Testing of a Novel Silicon Probe for Micromachined Surface Profilers	Senlin Jiang, Dacheng Zhang, Longtao Lin, Zhenchuan Yang, and Guizhen Yan	Peking University, Beijing
150	M10	Nano-materials I	Synthesis of Uniform Carbon Micro-coils by Using Hybrid catalyst of Fe Thin Film and SnO <sub>2</sub> Powder	C. C. Su, J. L. Tsai, and S. H. Chang	National Taiwan University, Taiwan
151	Poster session #1-1	Nano-materials	Low-κ Membranes Synthesized by Atmospheric Pressure Plasma-Assisted Deposition from Suspended Zeolite Nanoparticles	Chiung-Fang Lin, Jen-Fang Yu, Shu-Jen Chang, and Wen-Jen Liu	I-Shou University, Taiwan
152	Poster session #1-1	Nano-materials	The temperature dependence properties of Quasi Two Dimensional System in CdS and ZnS	Su Ho Lee, Jahn Tak Lee, Geon Sa-Gong, Jun Yong Choi, and Joung Young Sug	Kyungpook National University, South Korea
156	Poster session #3-2	Nano/Micro Sensors and Actuators	MSM Diamond UV Detector	S. Cheirsirikul, S. Jesen, and C. hruanun	King Mongkut's Institute of Technology Ladkrabang, Thailand
158	T4	Nano/Micro Sensors	Measuring Atmospheric Electric Field Using Novel Micromachined Sensor	Chunrong Peng, Pengfei Yang, Xin Guo, Haiyan Zhang, and Shanhong Xia	Chinese Academy of Sciences, China

159	Poster session #3-2	Nano/Micro Sensors and Actuators	Flexible pentacene thin film transistors as DNA hybridization sensor	Jung-Min Kim, Sandeep Kumar Jha, Rohit Chand, Dong-Hoon Lee, and Yong-Sang Kim	Myongji University, South Korea
160	Poster session #3-2	Nano/Micro Sensors and Actuators	Infrared Enhanced Absorption of TiNx Nano Films	Yongjun Zheng, Xiaomei Yu, Mingquan Yuan, and Kan Yu	Peking University, China
161	Poster session #1-2	Nano-materials	Solar-powered microfluidic photocatalysis	N. Wang, L. Lei, X. M. Zhang, Helen L.W. Chan, and D. P. Tsai	The Hong Kong Polytechnic University, Hong Kong
162	Poster session #2	Nano/Micro Fabrication	Nanofabrication of ZnO nanorod arrays by chemical bath deposition: towards solid-state dye-sensitized solar cells	Yi-Mu Lee, Wei-Ming Nung, Jia-Ying Wu, Tsung-Yi Cheng, Cheng-Shian Guo, and Hung-Wei Chen	National United University, Taiwan
163	Poster session #2	Nano/Micro Fabrication	Symmetrical Gold Nanorods Superlattice Directed by PEGOH-Surfactant	Yong Xie, Shengming Guo, Chuanfei Guo, Zhuwei Zhang, Ziyu Chen, and Qian Liu	National Center for Nanoscience and Technology, China
164	T6	Optical MEMS	Design and Demonstration of Micro Multi-step Mirrors and Light Source in Micro FTIR	Zhongzhu Liang, Jianguo Fu, Cong Feng, and Jingqiu Liang	Chinese Academy of Sciences, China
165	T2	Nano/Micro Fabrication II	The Defects Analysis in CMOS Fabrication By Arrhenius Activation Energy Technique	Weera Pengchan, Toempong Phetchakul, and Amporn Poyai	King Mongkut's Institute of Technology Ladkrabang, Thailand
168	M3	Nano/Micro Fluidics I	Controllable In-situ Hydrogels Membrane Formation using Microfluidics	Eunpyo Choi, Indong Jun, Kyung Min Park, Ki Dong Park, Heungsoo Shin, and Jungyul Park	Sogang University, South Korea
169	W12	Misc. III	Microfluidic PCR Chip based on Computer Controlled ITO Microheater	You-Cheol Jang, Sung-Nam Oh, Sandeep Kumar Jha, Kab-Il Kim, and Yong-Sang Kim	Myongji University, South Korea
170	Poster session #1-1	Nano-materials	Emission Properties of White Light of Nanocrystals	Shu-Ru Chung, Hong-Shou Chen, and Kuan-Wen Wang	National Formosa University, Taiwan
171	W3	Gas Sensors	Conductive-Carbon-Black Filled PDMS Chemiresistor Sensor for the Detection of Volatile Organic Compounds	Jian Wang, Bo Feng, and Wengang Wu	Peking University, China
172	Poster session #3-2	Nano/Micro Sensors and Actuators	Scattering of Laser Irradiating on Nanoscale Rectangular Groove	Ching-Yen Ho, Yu-Hsiang Tsai, and Mao-Yu Wen	Hwa Hsia Institute of Technology, Taiwan
173	Poster session #3-2	Nano/Micro Sensors and Actuators	Mechanical Quantification of the Epithelial Mesenchymal Transition	Tsung-Hsien Wu, Jen-I Liang, Yu-Wei Chiu, Ming-Long Yeh, Chia-Hsin Chen	National Cheng Kung University, Taiwan
174	Poster session #1-1	Nano-materials	Effective photoluminescence in a large-area array of Ta <sub>2</sub> O <sub>5</sub> nanodots (PL of Ta <sub>2</sub> O <sub>5</sub> nanodots)	Rupesh S. Devan, Ching-Ling Lin, Jin-Han Lin, Ranjit R. Patil, and Yuan-Ron Ma	National Dong Hwa University, Taiwan
176	Poster session #2	Nano/Micro Fabrication	Optimization and Fabrication of Low Stress-Low Temperature Silicon Oxide Cantilevers	Abhijeet Kshirsagar, S. P. Dutttagupta, and S. A. Gangal	Indian Institute of Technology Bombay, India
177	M6	Micro Actuators	Reduced Dimensional Analysis on Dynamic Characteristics of Microcantilever Beams in the Fluid Environment and Application to Atomic Force Microscopy	Kuan-Rong Huang, Zhan-Yi Liao, Jeng-Shian Chang, Sheng D. Chao, Kuang-Chong Wu, and Shyh-Haur Chen	National Taiwan University, Taiwan

178	M1	Award finalist session #1	An 8×8 CMOS Microelectrode Array for Electrochemical Dopamine Detection	Po-Hung Yang and Michael S.-C. Lu	National Tsing Hua University, Taiwan
180	W8	Nano/Micro Fabrication V	Technique for Preparing Defect-free High Aspect Ratio SU-8 Resist Structure Using X-ray Lithography	V. K. Singh, S. Maekawa, M. Kator, Y. Minamiyama, D. Noda, and T. Hattori <sup>3</sup>	National Institute of information and communications Technology, Japan
181	W10	Misc. II	Electrical characteristic of organic circuit using pentacene TFTs	Dong-Hoon Lee, Jung-Min Kim, Jong-Wook Lee, and Yong-Sang Kim	Myongji University, South Korea
182	M9	Bio Devices and System I	The Migration of Cancer and Normal Cells in Response to the Surface Topography and Rigidity	Wen-Chi Chen, Chin-Ho Hsieh, Chia-Hui Li, Yu-Chieh Tseng, Kuo-Ming Wang, and Ming-Long Yeh	National Cheng Kung University, Taiwan
184	Poster session #2	Nano/Micro Fabrication	Fabrications of a continuous-flow PCR-chip using dry film resist	D. Y. Kong, S. W. Kim, C. T. Seo, J. H. Lee, C. S. Cho, and B. H. Kim	Kyungpook National University, South Korea
185	Poster session #1-1	Nano-materials	3D Photo-Crosslinking Pattern Scaffold for Cell Application by Two-Photon Laser Scanning System	Yu-Fu Wang, Jen-I Liang, Chien-Te Lee, Ming-Long Yeh, and Shean-Jen Chen	National Cheng Kung University, Taiwan
187	Poster session #2	Nano/Micro Fabrication	Ultrashort-Pulse Laser Microablation of Aluminum Oxide Ceramics	Ching-Yen Ho and Mao-Yu Wen	Hwa-Hsia Institute of Technology, Taiwan
188	W9	Bio Devices and System III	Adhesion Strengths of Normal Epithelial Cells and Epithelial Mesenchymal Transition Cells by Using Single-Cell Force Spectroscopy	Wen-Ling Chen, Yi-Shan Chung, Yu-Wei Chiou <sup>1</sup> , Ming-Jer Tang, and Ming-Long Yeh	National Cheng Kung University, Taiwan
189	T1	Award finalist session #3	Fabrication of Biomimetic Gecko Setae by Direct Photolithography and Micromolding Processes	Hao Lv, Shiyuan Liu, Peng Zhang, and Zirong Tang	Huazhong University of Science and Technology, China
191	M5	NEMS	Zernike Representation of Angle-Resolved Mueller Matrix for Dimensional Analysis of Nanoscale Structures	Xiuguo Chen, Shiyuan Liu, Chuanwei Zhang, and Yuan Ma	Huazhong University of Science and Technology, China
192	M2	CNT-based Devices	Microscale Study of Electrical Characteristics of Epoxy-Multiwall Carbon Nanotube Nanocomposites	Michael K. Njuguna, Cheng Yan, John M. Bell, and Prasad K. D. V. Yarlagadda	Queensland University of Technology, Australia
193	Poster session #2	Nano/Micro Fabrication	Hybrid Inverted Organic Solar Cells Using CdSe/ZnS Nanoparticles And Fullerene: Polymer	Mijung Choi, Honghong Fu, Weiling Luan, and Yong-Sang Kim	Myongji University, South Korea
194	Poster session #3-2	Nano/Micro Sensors and Actuators	Multimode fiber Mach-Zehnder interferometer for measurement of refractive index	Chien-Hsing Chen, Yi-Chun Chen, Jian-Neng Wang, Lai-Kwan Chau, Jaw-Luen Tang, and Wei-Te Wu	National Chung Cheng University, Taiwan
195	W10	Misc. II	Investigation of Cu Atomic Filament and Improved Resistive Switching in Ta <sub>2</sub> O <sub>5</sub> /Ge <sub>0.2</sub> Se <sub>0.8</sub> CBRAM devices	S. Z. Rahaman and S. Maikap	Chang Gung University, Taiwan
196	Poster session #1-1	Nano-materials	The Design of a Novel Tunable Filter	Shifeng Li, Feng Liu, Shuangli Ye, and Gaofeng Wang	Wuhan University, China
199	M4	Nano-photonics	Tip-enhanced Rayleigh and Raman scatterings from Ge/Si quantum dots	Yoshihiro Ogawa and Fujio Minami	Tokyo Institute of Technology, Japan
200	M5	NEMS	Rejuvenation of DNA Nanostructures for the Development of Biosensors	Ming-Yu Lin and Yuh-Shyong Yang	National Applied Research Laboratories, Taiwan

201	Poster session #1-1	Nano-materials	Based on Core-Shell Model of considering Surface Elasticity in a Bent Piezoelectric Nanowire	Haiyan Yao and Guohong Yun	Inner Mongolia University, China
202	W11	Special invited session: Cross-Strait MEMS/Nano session #4	Micro-machined Resonant Accelerometer with High Sensitivity	Wang Junbo	Chinese Academy of Sciences, China
203	T9	Bio Devices and System II	A Novel Micro-machined Biosensor with Resonant Torsional Paddle for Direct Detection in Liquid	Junbo Wang, Hao Li, Xiang Li, and Deyong Chen	Chinese Academy of Sciences, China
204	T2	Nano/Micro Fabrication II	Sub-50nm Nanopore Membrane Based on Patterned Self-assembly Monolayer of Nanospheres	Chuang Qian, Wenxuan Yu, Yifei Wang, and Wengang Wu	Peking University, China
205	T8	Nano/Micro Fabrication III	Tunable structural color caused by colloidal crystal	Jiawen Li, Ping Du, Xi Li, Yuhang Chen, and Wenhao Huang	University of Science and technology of China, China
206	Poster session #3-2	Nano/Micro Sensors and Actuators	Integration and Implementation of CMOS-MEMS Accelerometer and Capacitive Sensing Circuits	Ching-Pei Huang and Rongshun Chen	National Tsing Hua University, Taiwan
209	Poster session #1-2	Nano-materials	Driving and controller design of digital microdroplet	Ming-Chun Ho, Yu-Chi Kang, and Rongshun Chen	National Tsing Hua University, Taiwan
210	Poster session #3-1	CNT-based Devices	Synthesis and Raman Response of Multiwalled-Carbon Nanotubes Decorated with Gold Nanobowls Prepared via Galvanic Replacement of Silver Nanoparticles	Judy M. Obliosca, Pen-Cheng Wang, and Fan-Gang Tseng	National Tsing Hua University, Taiwan
211	M1	Award finalist session #1	Inexpensive and Fast Fabrication of Ordered Gold Nanocone Arrays	Di Di, Peitao Dong, Jian Chen, Jiao Chen, Zelong Zhou, Xuezhong Wu, and Shengyi Li	National University of Defense Technology, China
213	W1	Power/RF MEMS	Micro Inductor for RF ICs with NiCuZn Ferrite Film	Feng Liu, Shuangli Ye, Shifeng Li, and Xinzhi Shi	Wuhan University, China
214	T8	Nano/Micro Fabrication III	Replication of Polyethylene Terephthalate (PET) Nano/Micro Structures Using Ultrasonic Nanoimprint	Chih-Yu Wang, Po-Yuan Tseng, and Chien-Hung Lin	National Tsing Hua University, Taiwan
215	T8	Nano/Micro Fabrication III	Fabrication of PZT Thick Film on Platinum-Coated Silicon Substrate by an Improved Sol-Gel Deposition Method	Chun-I Lin and Yung-Chun Lee	National Cheng Kung University, Taiwan
216	Poster session #3-1	CNT-based Devices	The Single-Walled Carbon Nanotubes Networks Gas Sensing Device	Cheng-Long Ho, Li-Chun Wang, I-Ju Teng, and Cheng-Tzu Kuo	Chung-Shan Institute of Science and Technology, Taiwan
217	Poster session #3-2	Nano/Micro Sensors and Actuators	Surface Plasmon Resonance Biosensor Based on Grating Disc with Circular Fluidic Channel	Jenq-Nan Yih, Kuo-Chi Chiu, Sheng-Yu Chou, Chih-Ming Lin, Yung-Sung Lan, Shu-Jen Chen, and Nai-Jen Cheng	Kaohsiung University of Applied Sciences, Taiwan
218	Poster session #1-2	Nano-materials	A Microfluidic and Potentiostatic Sensor Integrated with Neopterin-imprinted Poly(ethylene-co-vinyl alcohol) Based Electrode	Chen-Hsin Hsieh, Hung-Yin Lin, Chun-Yueh Huang, Chien-Fu Lin, Hann-Huei Tsai, Ying-Zong Juang, and Bin-Da Liu	National University of Kaohsiung, Taiwan
220	Poster session #2	Nano/Micro Fabrication	SVR-Based Analysis on Tribological Property of Ultra High Molecular Weight Polyethylene Composites Filled with Nano-ZnO Particles	X.J. Zhu, C.Z. Cai, J.F. Pei, G.L. Wang, and F.Q. Yuan	Chongqing University, China

221	Poster session #2	Nano/Micro Fabrication	Novel Fabrication Method for High-Aspect-Ratio Suspended Parylene Structures	Wen-Cheng Kuo and Cheng-Wei Chen	National Kaohsiung First University of Science and Technology, Taiwan
222	M4	Nano-photonics	Reflectance from Slit Arrays at Magnetic Polariton	Chien-Jing Chen, Jia-Shiang Chen, and Yu-Bin Chen	National Cheng Kung University, Taiwan
225	Poster session #1-1	Nano-materials	Nano-structure and Nano-mechanical Properties of Human Teeth	Chung-Jen Chung, Bo-Hsiung Wu, Jen-Fin Lin, Chang-Fu Han, Shu-Fen Chuang, and Wang-Long Li	National Cheng Kung University, Taiwan
226	Poster session #2	Nano/Micro Fabrication	A Micro-Stamping Process Analysis of Metallic Bipolar Plates Channel	Tsung-Chia Chen and Jiun-Ming Ye	National Chin-Yi University of Technology, Taiwan
227	Poster session #3-1	CNT-based Devices	Fabrication of Intelligent Nanocomposite Thin Film Gas Sensor System	Ya-Mei Wang, Han-Wen Kuo, Tseng-Hsiung Su, and Li-Chun Wang	Chung-Shan Institute of Science and Technology, Taiwan
228	W9	Bio Devices and System III	Development of Brain Focal Cooling Measurement for Induced Epilepsy	Kuan-Chou Hou, Chih-Wei Chang, Chun-Ying Lin, Jin-Chern Chiou, Yu-Hsing Huang, and Fu-Zen Shaw	National Chiao Tung University, Taiwan
229	T6	Optical MEMS	Characterization of an 2x2 SCB Optical Switch integrated with VOA	Hen-Wei Huang , Hsin-Hung Liao, and Yao-Joe Yang	National Taiwan University, Taiwan
230	Poster session #1-1	Nano-materials	Experiment and Simulation of Resistance of Nanoporous Dentin Biomaterial to CO <sub>2</sub> Laser Irradiation	S. L. Lin, H. Y. Wang, C. K. Chung, and S. F. Chuang	National Cheng Kung University, Taiwan
231	Poster session #1-1	Nano-materials	Thermal Characteristics of Fe Powders with Micro- and Nano-Sized Particles	C. Y. Ho and Y. H. Tsai	Hwa-Hsia Institute of Technology, Taiwan
232	Poster session #2	Nano/Micro Fabrication	Investigation of Acoustic Properties and Raman Scattering of AlN Films for Biosensor Application	Chung-Jen Chung, Po-Tsung Hsieh, Jen-Fin Lin, Ching-Liang Wei, Wei-Tsai Chang, Cheng-Ting Chen, Ying-Chung Chen, Chien-Chuan Cheng, Cheng-Hsiang Lin, Kuo-Chih Chiu, Shean-Jen Chen, and Kuo-Sheng Kao	National Cheng Kung University, Taiwan
233	Poster session #3-2	Nano/Micro Sensors and Actuators	SU-8 Flexible Ribbon Cable for Biomedical Microsystem Interconnection	Tzu-Yuan Chao, Kuei-Shu Li, and Y. T. Cheng	National Chiao Tung University, Taiwan
235	Poster session #2	Nano/Micro Fabrication	Surface Uniform Wet Etching of ZnO Films and Influence of Oxygen Annealing on Etching Properties	Tao Zhang, Lei Sun, Dedong Han, Yi Wang, and Ruqi Han	Peking University, China
236	W7	Misc. I	Design, Fabrication and Test of CMOS-Process-Compatible IRFPA	Anjie Ming, Dapeng Chen, Ou Wen, Weibing Wang, and Zhuolei Huang	Chinese Academy of Sciences, China
237	Poster session #3-2	Nano/Micro Sensors and Actuators	Silicon Nanowire Temperature Sensor and its Characteristic	Chuan-Po Wang, Chien-Wei Liu, and Chie Gau	National Cheng Kung University, Taiwan
239	T8	Nano/Micro Fabrication III	Simulation and Experiments of Intrinsic Bending of Multilayer Microcantilever for Maskless Scanning Plasma Etching	Li Wen, Hongjiang zeng, Zheng Yuan, Jiaru Chu, and Hai Wang	University of Science and Technology of China, China

240	Poster session #2	Nano/Micro Fabrication	Comparative Study of the Wafer Bonding Processes for MEMS Devices	Jaehong Park, Sangmin Lee, and Dong-il “Dan” Cho	Seoul National University, South Korea
241	Poster session #3-2	Nano/Micro Sensors and Actuators	Design of a Novel Low Cross-Axis Sensitivity Micro-Gravity Sandwich Capacitance Accelerometer	Qifang Hu, Chengchen Gao, Yangxi Zhang, Jian Cui, and Yilong Hao	Peking University, China
242	Poster session #1-1	Nano-materials	Study of Silicon Nitride Film Embedded with Silicon Quantum Dots	Pei Ling Li, Chie Gau, Bau Tong Dai, and Chien Wei Liu	National Yunlin University of Science and Technology, Taiwan
243	Poster session #1-2	Nano-materials	A Lamination Micromixer Using Silicon DRIE Technology	Kazuki Ishikawa, Takeshi Saito, Kazuhiro Takahashi, Makoto Ishida, and Kazuaki Sawada	Toyohashi University of Technology, Japan
244	Poster session #3-2	Nano/Micro Sensors and Actuators	Digital Closed-loop Controller Design of A Micromachined Gyroscope Based on Auto Frequency Swept	Longtao Lin, Dachuan Liu, Jian Cui, Zhongyang Guo, Zhenchuan Yang, and Guizhen Yan	Peking University, China
245	Poster session #3-2	Nano/Micro Sensors and Actuators	Development of PVdF Based Pressure Sensor for Low Pressure Application	Bhoopesh P. Mahale, Dhananjay Bodas, and S.A. Gangal	University of Pune, India
248	T9	Bio Devices and System II	A New Equivalent Circuit Model for Micro Electroporation Systems	Hooman Shagoshtasbi and Yi-Kuen Lee	KUST, Hong Kong
249	Poster session #1-1	Nano-materials	Optimization of Process Parameters on Grain Size of Fe3O4 Nanoparticles by Support Vector Regression	G.L. Wang, C.Z. Cai, X.J. Zhu, J.F. Pei, and F.Q. Yuan	Chongqing University, China
250	Poster session #1-1	Nano-materials	Study on Preparation of KF/Al2O3 Nano-composite Catalyst via Support Vector Regression	X.J. Zhu, C.Z. Cai, J.F. Pei, G.L. Wang, and S. Zhao	Chongqing University, China
252	M6	Micro Actuators	3-Dimensional electrokinetic tweezing Device design, modeling, and control algorithms	Roland Probst and Benjamin Shapiro	University of Maryland, USA
253	Poster session #2	Nano/Micro Fabrication	Investigation of Electromigration in Micrometer-Scale Metal Wires by In-Situ Optical Microscopy	Yosuke Kuwabara, Shinya Nishimura, Rizal Zaharuddin, and Jun-ichi Shirakashi	Tokyo University of Agriculture and Technology, Tokyo
255	Poster session #1-1	Nano-materials	Modeling and Prediction of the Preparation of Hydroxyapatite with Sol-gel Method by Using Support Vector Regression	S. Zhao, C.Z. Cai, X.J. Zhu, G.L. Wang, and F.Q. Yuan	Chongqing University, China
256	W9	Bio Devices and System III	Lab-on-CMOS: Integrating Microfluidics and Electrochemical Sensor on CMOS	Yue Huang and Andrew J. Mason	Michigan State University, USA
257	T3	Nano/Micro Fluidics II	Real-Time Sensing with Single-Pixel Resolved Kinetics Using Room-Temperature Bonded Biofunctional Nanoslits	Thierry Leïchl� and Chia-Fu Chou	Universit� de Toulouse, France
260	T3	Nano/Micro Fluidics II	Three-dimensional Focusing for Microflow Cytometer with Sequence Micro-weir Structures	Ho-Cheng Lee, Che-Hsin Lin, Lung-Ming Fu, and Chien-Hsiung Tsai	National Sun Yat-Sen University, Taiwan
262	W8	Nano/Micro Fabrication V	Fabrication of Sub-Micrometer Surface Structures on Sapphire Substrate for GaN-Based Light-Emitting Diodes by Metal Contact Printing Method	Yi-Ta Hsieh, Wei-Ru Chen, An-Ru Lin, Yung-Chun Lee, and Hung-Yi Lin	National Cheng Kung University, Tainan, Taiwan

264	Poster session #2	Nano/Micro Fabrication	Fabrication of Two-Point-Supported Annular-Type Microresonators with Capacitive Transducer Gaps	Sunao Murakami, Mitsuo Konno, Tsuyoshi Ikehara, Ryutaro Maeda, and Takashi Mihara	National Institute of Advanced Industrial Science and Technology (AIST), Japan
265	Poster session #3-1	CNT-based Devices	A Microfluidic and Potentiostatic Sensor Integrated with Neopterin-imprinted Poly(ethylene-co-vinyl alcohol) Based Electrode	Chen-Hsin Hsieh, Hung-Yin Lin, Chun-Yueh Huang, Bin-Da Liu, and Mei-Hwa Lee	National University of Kaohsiung, Taiwan
266	T3	Nano/Micro Fluidics II	Integration of Slanted Tether Check-valves for High Pressure Applications	Jeffrey Chun-Hui Lin, Feiqiao Yu, and Yu-Chong Tai	California Institute of Technology, USA
267	Poster session #1-2	Nano-materials	Dynamic Characteristics Analysis of Micro Air Spiral Grooved Thrust Bearing-Rotor System	Liu Ren and Wang Xiaoli	Beijing Institute of Technology, China
268	Poster session #1-1	Nano-materials	A Theoretical Study on Silicon Betavoltaics using Ni-63	Kai Wu, Changhong Dai, and Hang Guo	Xiamen University, China
271	T1	Award finalist session #3	Fabrication of Seamless Roller Molds Using Step-and-Rotate Curved Surface Photolithography and Application on Micro-Lens Array Optic Film	Wen-Hui Li, Hong-Wei Chen, Ya-Wen Hu, Yung-Chun Lee, and Fei-Bin Hsiao	National Cheng Kung University, Taiwan
272	Poster session #1-1	Nano-materials	Neuron growth and guidance on the nanorod and micropatterned cell matrixes	Fu Han Ho, Yen-Pei Lu, Ming-Yu Lin, Yu-Cheng Ou, Ting-Gang Chen, Peichen Yu, Min-An Tsai	National Taiwan University of Science and Technology, Taiwan
276	W2	Nano/Micro Fabrication IV	Stresses Dominate Pulsated Electrohydrodynamic Spraying Modes in Near Field	Lei Xu, Xiang Wang, Yongfang Huang, Gaofeng Zheng, and Daochen Sun	Xiamen University, China
277 (344)	Poster session #2	Nano/Micro Fabrication	Fabrication of Sol-Gel-Derived Zinc Oxide Thin-Film Transistor	Shao-Hui Shieh, Hsin-Chiang You, and Chyi-Yau Shao	National Chin-Yi University of Technology, Taiwan
278	W2	Nano/Micro Fabrication IV	Surface Modifications for Iron Oxide Nanoparticle Assembly	Chih-Ming Chao and Kerwin Wang	National Changhua University of Education, Taiwan
279	Poster session #3-2	Nano/Micro Sensors and Actuators	MEMS-Based Buoyancy and Propelling Mechanisms for a Micro-Submarine	Che-Ming Ku, Hsin-Hung Liao, and Yao-Joe Yang	National Taiwan University, Taiwan
282	Poster session #1-2	Nano-materials	Using Ni-Pd Alloy Micro-porous Membrane Filtration Chip to Filter the Various Microparticles	Chia-Hsien Yeh, Chia-Wei Hung, Chun-Han Wu, and Yu-Cheng Lin	National Cheng Kung University, Taiwan
284	W5	Special invited session: Cross-Strait MEMS/Nano session #3	Measurements of hydraulic conductivity of cell membranes with a PDMS microfluidic device	Hsieh Wen-Hsin	National Chung Cheng University, Taiwan
285	Poster session #3-1	CNT-based Devices	Lateral Growth of Self-Assembled Carbon Nanotube as Tunable Rectifier	Wen-Teng Chang, Ming-Feng Li, and Chii-Wen Chen	National University of Kaohsiung, Taiwan

286	Poster session #1-1	Nano-materials	Prediction of Burning Rate of HTPB Propellant by Using Support Vector Regression	J.L. Tang, C.Z. Cai, S. Zhao, and G.L. Wang	Chongqing University, China
287	Poster session #2	Nano/Micro Fabrication	Particles Sorting in Micro-Channel System Utilizing Magnetic Tweezers and Optical Tweezers	Yung-Chiang Chung, Po-Wen Chen, Chao-Ming Fu, Fong-Jian Sie, and Cheng-Wei Tsai	Ming Chi University of Technology, Taiwan
291	W7	Misc.	Development of Intelligent Drilling and Intelligent Drill Tools	RongHua Yu and PengBin Yuan	Hilong Oil Country Tubular Goods Research Institute, China
293	W2	Nano/Micro Fabrication IV	Direct Al-Al Contact in Silicon-Pyrex7740 Anodic Bonding for Hermetic Package and Electrical Interconnecting	Xiaoshan Zheng, Xin Yan, Zijun Song, Haisheng San, and Xuyuan Chen	Xiamen University, China
295	Poster session #1-1	Nano-materials	Uniformly oblique nanorod surface for biofunctional applications	Fuhan Ho, Yu-Cheng Ou, Min-An Tsai, and Peichen Yu	National Taiwan University of Science and Technology, Taiwan
296	Poster session #2	Nano/Micro Fabrication	A Portable and High Efficiency System for Cell Elec-troporation under Low Voltage	Mengxi Wu, Zewen Wei, Deyao Zhao, and Zhihong Li	Peking University, China
299	M9	Bio Devices and System I	Control Single dsDNA Molecule Stretching and Transportation by Using Virtual NanoPore Trapper	Chia-Jung Chang, Pen-Cheng Wang, and Fan-Gang Tseng	National Tsing Hua University, Taiwan
300	M7	Award finalist session #2	An Investigation of the Plasmon Enhanced/Quenched Molecular Fluorescence Based on Multi-graded Silver Nanoparticle Array Substrates	Longbing He, Cheng Zheng, Xi Chen, Yuanjun Liu, Fengqi Song, and Min Han	Nanjing University, China
305	Poster session #1-1	Nano-materials	Fabricating Zinc Oxide Semiconductor Device of Flexible Substrate by Using the Spin-Coating Method	Hsin-Chiang You, Shiang-Jun Zhang, Shao-Hui Shieh and Chiou-Kou Tung	National Chin-Yi University of Technology, Taiwan
306	M10	Nano-materials I	Synthesis of Novel Layer-Packed In <sub>2</sub> O <sub>3</sub> Nanostructures and Their Application in Gas Sensor for Detecting Indoor Air Contaminants	Jinyun Liu, Yuteng Wan, Wei Li, Fanli Meng, Zhen Jin, and Jinhuai Liu	Chinese Academy of Sciences, China
307	Poster session #3-2	Nano/Micro Sensors and Actuators	A New Integrated Temperature and Humidity	Zhen Fang, Zhan Zhao, Jiangang Zhang, Lidong Du, Jing Xu, Daoqu Geng, and Yaohong Shi	Chinese Academy of Sciences, China
309	Poster session #2	Nano/Micro Fabrication	Numerical analysis of impact of imprinting pressure on profile shape and mold deformation in UV-NIL	Jun Du, Zhengying Wei, Wei He, and Yiping Tang	Xi'an Jiaotong University, China
310	Poster session #3-2	Nano/Micro Sensors and Actuators	A Novel LTCC Capacitive Accelerometer Embedded in LTCC Packaging Substrate	Hua Gan, Yufeng Jin, Min Miao, and Xin Sun	Peking University, China
311	M7	Award finalist session #2	Quantum Dots- Enabled High Resolution Analysis of Gene Copy Number Variation	Yi Zhang and Tza-Huei Wang	Johns Hopkins University, USA
313	M4	Nano-photonics	Impact of the Silicon Layer Thickness to The Optical Property of Sandwich Photonic Crystal Structure	Fangqiang Li, Changzheng Li, Haisheng San, and Xuyuan Chen	Xiamen University, China
315	W2	Nano/Micro Fabrication IV	Direct Fabrication of Single Nanopore in Glass Capillary	Jingjie Sha and Yunfei Chen	Southeast University, China

318	M7	Award finalist session #2	Using Impedance Biosensors to Distinguish the PC12 Cells Adhesion and Differentiation	Chen-Chia Chen, Shan-Yu Lin, and Jeng-Tzong Sheu	National Chiao Tung University, Taiwan
319	M2	CNT-based Devices	Dielectrophoresis Assembly of Multiwall Carbon Nanotubes for Creating Cylindrical Clusters	Yi-Chung Lan and Yao-Joe Yang	National Taiwan University, Taiwan
320	Poster session #3-2	Nano/Micro Sensors and Actuators	Class-Based CMOS Capacitive Sensors for Dopamine Detection	Lei-Guang Chen and Michael S.-C. Lu	National Tsing Hua University, Taiwan
321	W10	Misc. II	An Equivalent Electrical Model for Numerical Analyses of ODEP Manipulation	Wenfeng Liang, Shue Wang, Yanli Qu, Zaili Dong, Gwo-Bin Lee, and Wen J. Li	The Chinese University of Hong Kong, Hong Kong
322	T6	Optical MEMS	Towards High Resolution Pico-Projector Applications: Design Improvements on MEMS Scanning Mirror	Wei Ma, Ho- Yin Chan, Chun Cheong Wong, Checky Yiu, Yick Chuen Chan, and Francis Chee Shuen Lee	Hong Kong Applied Science and Technology Research Institute Company Limited, Hong Kong
323	Poster session #1-1	Nano-materials	Optical Modulation of Nanoporous Alumina Anodic Oxide Thin Film on Sapphire by the Superparamagnetic from Nano Patterns Upon	H. H. Liu, W.P. Weng, J.C. Wang, and C. Hsu	National Defense University, Taiwan
325	M10	Nano-materials I	Superparamagnetic and Photoluminescence of Nanohole-arrayed MnZn Ferrite Thin Film on PAA/GaN/sapphire Thin Films	H. H. Liu, J.C. Wang, W.P. Weng, and C. Hsu	National Defense University, Taiwan
326	Poster session #2	Nano/Micro Fabrication	Characterizations of Micro-particles Trapping and Separation in an Electrodeless Dielectrophoresis	Liang-Ju Chien, Jia-Cheng Pan, Chi-Han Chiou, and Jr-Lung Lin	I-Shou University, Taiwan
327	T5	Special invited session: Tsing Hua University 100th anniversary	Novel Methods Development for Measuring Thermal Conductivity of Micro/Nanoscale Thin-Film	Da-Jeng Yao	National Tsing Hua University, Taiwan
329	T4	Nano/Micro Sensors	A Capacitance Level Sensor Design and Sensor Signal Enhancement	Yu-Ting Li, Chih-Ming Chao, and Kerwin Wang	National Changhua University of Education, Taiwan
330	W11	Special invited session: Cross-Strait MEMS/Nano session #4	Formal Description and Language of a MEMS Design	Xin Zhao	Nankai University, China
331	Poster session #2	Nano/Micro Fabrication	Thermally Stable Sulfonated Nanoporous Aryl Epoxy Resin as Proton Exchange Membranes at Elevated Temperatures	Tsung-Cheng Ho, Chia-Jung Chang, Pen-Cheng Wang, and Fan-Gang Tseng	National Tsing Hua University, Taiwan
332	Poster session #3-2	Nano/Micro Sensors and Actuators	Wireless Networks Wind Sensor Based on Micro Wind Velocity Chip and Electronic Compass	Lidong Du, Zhan Zhao, Zhen Fang, Jing Xu, Li Xiao, Daoqu Geng, and Junjuan Zhao	Chinese Academy of Sciences, China
333(334)	T11	Special invited session: Cross-Strait MEMS/Nano session #1	Confined Etchant Layer Technique: An Approach to Micro/Nano Machining	Zhan Dongping, Han Lianhuan, Jiang Liming, Shi Kang, Zhou Jianzhang, Tian Zhao-Wu, and Tian Zhong-Qun	College of Chemistry and Chemical Engineering, China

335	Poster session #1-1	Nano-materials	Decorating Gold Nano-Spheres, -Rods and -Cubes with Gold Nanodots	Bing-Sheng Yin, Yi-Fan Huang, Chao-Yu Li, and Zhong-Qun Tian	Xiamen University, China
336	T11	Special invited session: Cross-Strait MEMS/Nano session #1	MEMS Transformers and Their Applications for Biomolecule Detection	Ping-Hei Chen	National Taiwan University, Taiwan
337	Poster session #3-2	Nano/Micro Sensors and Actuators	A Novel Bulk Micromachined Tunneling Gyroscope	Lingyun Wang, Yuanzhe Su, Yi Lei, Wenwang Li, Yifang Liu, and Daoheng Sun	Xiamen University, China
339	Poster session #2	Nano/Micro Fabrication	Fabrication of Micro/Nanometer-Channel by Near-Field Electro Spinning	Yongfang Huang, Gaofeng Zheng, Xiang Wang, and Daoheng Sun	Xiamen University, China
341	W2	Nano/Micro Fabrication IV	A Novel Fabrication Process of Magnetic Micropillar Integrated Microfluidic Device for Cells Capture	Jun Xia, Chongzhi Zhou, Xiang Chen, and Zhihai Peng	Shanghai Jiao Tong University, China
342	Poster session #2	Nano/Micro Fabrication	The Characteristics of Glass Deep Dry Etching Process with a Single PR mask	Tag Gyu Park, Junggi Min, Dong-Chul Han, Yeongtaek Oh, and Wonjin Seo	Seoul National University, South Korea
343	T11	Special invited session: Cross-Strait MEMS/Nano session #1	Thermally evaporated SnS:Cu thin films for Solar Cells	Shuying Cheng	Fuzhou University, China
345	M10	Nano-materials I	Catalyst-Free Synthesis of Zinc Oxide Nanostructures by Microheaters in the Ambient Environment	Weichih Lin, Ashwin A. Seshia, Ching-Chen Wu, and Yu-Ching Lin	Cambridge University, UK
347	Poster session #2	Nano/Micro Fabrication	Fabrication Sub-10nm Metallic Gratings with Carbon Nanotube – A Study by Molecular Dynamics Simulation Method	Ming-Chieh Cheng and Cheng-Kuo Sung	National Tsing Hua University, Taiwan
348	Poster session #1-2	Nano-materials	Analytical Model of Plug Flow in Microchannels	Zhizhao Che, Teck Neng Wong, and Nam-Trung Nguyen	Nanyang Technological University, Singapore
349	Poster session #2	Nano/Micro Fabrication	KOH Anisotropic Etching of Si Wafers for LED Electrode Arrays	Jian-Yang Lin and Pai-Yu Chang	National Yunlin University of Science & Technology, Taiwan
350	T10	Nano-materials II	MgO Nanowires Synthesized at Lower Temperatures by Metal Organic Chemical Vapor Deposition	Yunfeng Lai	Fuzhou University, China
351	Poster session #1-2	Nano-materials	An electro-thermal micro mixer	J. J. Huang, Y. J. Lo, C. M. Hsieh, U. Lei, C. I. Li and C. W. Huang	National Taiwan University, Taiwan
352	M5	NEMS	AFM Manipulation of Nanoparticles based on Dielectrophoresis	Cheng-Hsin Chuang and Ching-Hsun Hung	Southern Taiwan University, Taiwan
353	Poster session #2	Nano/Micro Fabrication	Packaging and Isolating Microsphere Coupling System	Yingzhan Yan, Shubin Yan, Yuguang Zhang, Li Wang, Juin Liu, Chenyang Xue, and Jijun Xiong	North University of China, China

354	Poster session #3-2	Nano/Micro Sensors and Actuators	Development of A MEMS DC Electric Current Sensor Applicable to Two-wire Electrical Appliance Cord	Kohei Isagawa, Dong F. Wang, Takeshi Kobayashi, Toshihiro Itoh and Ryutaro Maeda	Ibaraki University, Japan
356	Poster session #2	Nano/Micro Fabrication	Analysis and Design of Magnetic Mesa-structure Array for Ensemble Detection Applications of Nuclear Spins	Xiaoqiang Li, Dong F. Wang, and Ryutaro Maeda	Ibaraki University, Japan
357 (533)	W2	Nano/Micro Fabrication IV	Dimensional Control in Corner Lithography for Wafer-Scale Fabrication of Nano-Apertures	Narges Burouni, Erwin Berenschot, Miko Elwenspoek, and Niels Tas	University of Twente, The Netherlands
358	M5	NEMS	Single Cell Adhesion Force Measurement for Viability Identification using Nanorobotic Manipulation System inside ESEM	Yajing Shen, Masahiro Nakajima, Seiji Kojima, Michio Homma, and Toshio Fukuda	Nagoya University, Japan
359	Poster session #3-2	Nano/Micro Sensors and Actuators	A Differential Capacitive Sensing Circuit for Micro-machined Omnidirectional Microphone	Jung-Tang Huang, Kai-Si Chen, and Chu-Che Chien	National Taipei University of Technology, Taiwan
360	T9	Bio Devices and System II	Study on DNA electrochemical behavior for label-free micro PCR application	Rong Zhang, Jian Qin, Hao Tian, Weihua Si, Taihong Wang, Zewen Liu	Tsinghua University, China
362	T11	Special invited session: Cross-Strait MEMS/Nano session #1	Polarization Noise and Reduction Technology in Micro Optical Gyroscope	Liu Huilan, Feng Lishuang, Jiao Zhichao, and Li Ruya	Beihang University, China
363	Poster session #1-2	Nano-materials	Optical Properties Measurement of a Dielectrophoresis-Driven Liquid-core/Liquid-cladding Optical Waveguide	Yi-Wen Lu and Shih-Kang Fan	National Chiao Tung University, Taiwan
364	T7	Award finalist session #4	Formation of Droplets Interface Bilayer by Coplanar EWOD Device	Yi-Ying Lin, Ching-Wen Chen, Li-Chi Chen, and Shih-Kang Fan	National Chiao Tung University, Taiwan
365	Poster session #2	Nano/Micro Fabrication	Fabrication of a GaN Diode for Betavoltaic Microbattery	Changhong Dai, Kai Wu, and Hang Guo	Xiamen University, China
366	T10	Nano-materials II	Nano Porous Silicon Membrane with Channels for Micro Direct Methanol Fuel Cells	Mei Wang, Xiaohong Wang, Shan Wu, Zhimin Tan, Litian Liu, and Xun Guo	Tsinghua University, China
369	Poster session #3-2	Nano/Micro Sensors and Actuators	A Novel Light-Addressable Potentiometric Sensors Set-Up with LCD Projector as Scanning Light Source	Yen-Heng Lin, Anirban Das, Kai-Siang Ho, and Chao-Sung Lai	Chang Gung University, Taiwan
370	W1	Power/RF MEMS	Development of a Novel Transparent Microthermoelectric Generator for Solar Energy Conversion	Guan-Ming Chen, Ling-Yu Ma, I-Yu Huang, and Ting-Ee Wu	National Sun Yat-sen University, Taiwan
371	T4	Nano/Micro Sensors	A Novel humidity sensor with a constant temperature measurement mechanism	Jiangang Zhang, Zhen Fang, Daoqu Geng, and Zhan Zhao	Chinese academy of sciences, China
372	Poster session #1-1	Nano-materials	Synthesis of nature polymer supported Au, Ag and Au-Ag nanoparticles in aqueous medium and catalytic activity towards 4-nitrophenol reduction	Chih Wei Chou and Hui-Hsuan Hsieh	China Medical University, Taiwan
373	Poster session #2	Nano/Micro Fabrication	Design and Simulation of MEMS Based Radioisotope Converter with Electrostatic Capacitive Energy Conversion Mechanism	Haisheng San, Zaijun Cheng, Zhiqiang Deng, Zhiwen Zhao, Yanfei Li, and Xuyuan Chen	Xiamen University, China

375	Poster session #2	Nano/Micro Fabrication	Effect of three-dimensional cylindrical hole array on energy conversion efficiency of radioisotope battery	Zhiwen Zhao, Zaijun Cheng, Shulin Yao, Zhiqiang Deng, Yanfei Li, Haisheng San	Xiamen University, China
377 (529)	Poster session #2	Nano/Micro Fabrication	Transport in kinked Bilayer Graphene Interconnects	Bernat Terrés, Nick Borgwardt, Jan Dauber, Christian Volk, Stephan Engels, Stefan Fringes, Stefan Trelenkamp, Peter Weber, Uwe Wichmann, and Christoph Stampfer	RWTH Aachen University, Germany
378	W12	Misc. III	Selective Functionalization on Ultra-thin Body FETs	H. H. Liu, Y. S. Lin, C. C. Chen, and J. -T. Sheu	National Chiao Tung University, Taiwan
379	Poster session #2	Nano/Micro Fabrication	Research on Transport Property of Carbon Nanotube Based Device	Ying Wu, Junjie Bai, Zhaoying Zhou, Aixi Chen, and Yi Xiang	Chongqing University of Science and Technology, China
380	T10	Nano-materials II	Rapid Synthesis and Catalytic Application of Biocompatible HA-Au Nanoparticles	Chih-Wei Chou and Ko-Hsin Chang	China Medical University, Taiwan
381	Poster session #2	Nano/Micro Fabrication	EFFECT OF X-RAY IRRADIATE TO THE CURRENT OF P-N DIODE	Itsara Srithanachai, Poopol Rujanapich, Surada Ueamaphong, Narin Atiwongsangthong, Amporn Poyai, Surasak Niemcharoen, and Wisut Titiroongruang	King Mongkut's Institute of Technology Ladkrabang, Thailand
382	T3	Nano/Micro Fluidics II	Microfluidic Device for Manipulations of PMMA Nanoparticles Based on Dielectrophoresis	Cheng-Hsin Chuang, Yao-Wei Huang, Hsun-Pei Wu, Shiou-Yuh Lin	Southern Taiwan University, Taiwan
383 (473)	Poster session #3-1	CNT-based Devices	Optimization on the Self-aligned Growth of Carbon Nanotube	Ying Wu, Zhaoying Zhou, Junjie Bai, Yi Xiang	Chongqing University of Science and Technology, China
384	T9	Bio Devices and System II	Electrical Detection Method of Protein Concentration on ITO Interdigitated Electrodes	Kin Fong Lei	Chang Gung University, Taiwan
386	Poster session #1-2	Nano-materials	Twin Stack of Direct Methanol Fuel Cells with Hydrophobic Anode Channels	Win-Jet Luo, Jia-You Jiang, You-Jie Yang, Jao-Hsiung Chen, and Shih-Feng Cheng	National Chin-Yi University of Technology, Taiwan
387	Poster session #1-2	Nano-materials	Design of Micropillar Array for Cell Capture	Wenli Zhou, Qian Wu, Huanan Jiang, and Ming Zhu	Huazhong University of Science and Technology, China
388	W10	Misc. II	New Dual-Curvature Microlens Array Fabrication Using UV Proximity Printing	Tsung-Hung Lin and Ching-Kong Chao	National Taiwan University of Science and Technology, Taiwan
389	Poster session #1-2	Nano-materials	Numerical analysis and experiments of capillarity-driven microfluid chip	C.K. Chang, C.C Lai, and C.K. Chung	National Cheng Kung University, Taiwan
391	W1	Power/RF MEMS	Demonstration of a GaN Betavoltaic Microbattery	Zaijun Cheng, Zhiwen Zhao, Haisheng San, and Xuyuan Chen	Xiamen University, China
392	T10	Nano-materials II	The Crystallinity Analysis of Poly-Si Film with Different Deposition Sequences of Aluminum and a-Si Layers by Aluminum Induced Crystallization Method	Hsiao-Yeh Chu, Meng-Yi Chiang, Longer Yiz, and Sheng-Hong Zhou	Kun Shan University, Taiwan
393	Poster session #3-2	Nano/Micro Sensors and Actuators	Design and Fabrication of a Nanoporous Micro- hotplate for Gas Detection with Low Power and High Sensitivity	Jeng-Wei Chen, Sheng-Po Wu, Yong-Sheng Huang and Chih-Cheng Lu	National Taipei University of Technology, Taiwan

394	T10	Nano-materials II	Increasing Throughput and Sensitivity of DNA Methylation Analysis through Functional Nanoparticles	Alejandro Stark, Yi Zhang, Vasudev Bailey, Brian Keeley, Tza-Huei "Jeff" Wang	Johns Hopkins University, USA
395	M12	G Sensors	Design and Simulation of Novel Decoupled Microgyroscopes with Trench Isolation	Xin Yan, Xiaoshan Zheng, Haisheng San, Lingjuan Che, and Xuyuan Chen	Xiamen University, China
396	M11	Special invited session: Acoustic Micro/Nanofluidics	Droplet motion and deformation induced by SAW	Michael Baudoin, Philippe Brunet, Olivier Bou-Matar, and Farzam Zoueshtiagh	Institut d'Electronique, de Micro'electronique et de Nanotechnologie, Joint International Laboratory LEMAC, France
397	Poster session #2	Nano/Micro Fabrication	Characterization of Sidewall Roughness inside Porous Anodic Alumina Template Holes by Scanning Electron Microscopy	Guoqiang Han, Shu Chen, and Dong Zhang	Fuzhou University, China
398	Poster session #2	Nano/Micro Fabrication	Blind AFM tip Estimation by Using Porous Anodic Alumina Membrane	Guoqiang Han, Shu Chen, and Dong Zhang	Fuzhou University, China
400	M7	Award finalist session #2	NEMS Nanostructures with Enhanced Piezoresistive and Piezoelectric Properties. Application to Sensor Devices and Energy Harvesting	L. Montès, R. Hinchet, X. Xu, A.Potié, J.W. Lee, G. Ardila, T. Baron, M. Mouis1, R. Songmuang	Grenoble Institute of Technology, France
401	T2	Nano/Micro Fabrication II	High-Density IC Chip Integration with Parylene Pocket	Jay Han-Chieh Chang, Ray Huang, and Yu-Chong Tai	California Institute of Technology, USA
404	Poster session #3-2	Nano/Micro Sensors and Actuators	Design and Implementation of Driving Circuits for Micro Fluxgate Sensors Employing Multiple-Harmonic Characteristics	Yan-Ting Chen, Chih-Cheng Lu, Guo-Ming Sung, and Jen-Tzong Jeng	National Taipei University of Technology, Taiwan
405	W12	Misc. III	An Asymmetric PI Hysteresis Model for Piezoceramics in Nanoscale AFM Imaging	Dong Wang, Zaili Dong, Niandong Jiao, Shuai Yuan, Lei Zhou, and Wen J. Li	The Chinese University of Hong Kong, Hong Kong
406	Poster session #3-2	Nano/Micro Sensors and Actuators	Cross-plane Thermal Conductivity and Thermal Diffusivity Measurement in Thin-films by Onedimensional Thermal Wave Method	Zhigang Zeng, Chao Shen, Binjie Shen, and Zhiyu Hu	Shanghai University, China
407	M4	Nano-photonics	Laser Stimulated Electron Field Emission at the Plasmon-Resonant Wavelength	Kentaro Iwami, Arata Iizuka, and Norihiro Umeda	Tokyo University of Agriculture and Technology, Japan
408	M2	CNT-based Devices	A Novel Application of Carbon Nano Coils for Intracellular Nano-Robots	Takumi Matsumoto, Takayuki Hoshino, Yoshitake Akiyama, and Keisuke Morishima	Tokyo University of Agriculture and Technology, JAPAN
409	T12	Special invited session: Cross-Strait MEMS/Nano session #2	Computational Lithography and Computational Metrology for Nanomanufacturing	Liu Shiyuan	Huazhong University of Science and Technology, China
410	W8	Nano/Micro Fabrication V	The effect of sol-gel composition ratio on phase transformation of titanium dioxide under CO <sub>2</sub> laser annealing	S.L. Lin, H.Y. Wang, C.K. Chung, and S. F. Chuang	National Cheng Kung University, Taiwan
411	M7	Award finalist session #2	A Flexible Biocompatible Graphene Sensor for Real-time Monitoring of pH and Protein	Hyeun Joong Yoon, Yiyang Zhang, Seung Soo Kim, Mark Ming-Cheng Cheng, and Zhixian Zhou	Wayne State University, USA

412	W8	Nano/Micro Fabrication V	Determining the ion angular distribution of bulk titanium DRIE with overhang SU-8 mask	Jia Hu, Bo Yan, Nannan Li, and Jing Chen	Peking University, China
414	Poster session #3-2	Nano/Micro Sensors and Actuators	Design of Nonlinear Springs for Wideband Magnetic Vibration Energy Harvester	Linghe Sui, Xuhan Dai, Xiaolin Zhao, Peihong Wang, Hailin Zhou, and Peihong Wang	Shanghai Jiao Tong University, China
419	T3	Nano/Micro Fluidics II	Electroosmotic Flow Control in a Virtual Microchannel Based on Liquid Dielectrophoresis	Cheng-Yeh Huang, Shih-Kang Fan, and Wensyang Hsu	National Chiao Tung University, Taiwan
420	M11	Special invited session: Acoustic Micro/Nanofluidics	Acoustics for Microfluidics	James Friend and Leslie Y. Yeo	Monash University, Australia
424	W11	Special invited session: Cross-Strait MEMS/Nano session #4	Study on Miniature Ribbon Microphone	Ray-Hua Horng	National Cheng Kung University, Taiwan
425	T12	Special invited session: Cross-Strait MEMS/Nano session #2	Development of flexible sensors and actuators based on polymer composites for intelligent robotics	Wen-Pin Shih	National Taiwan University, Taiwan
426	Poster session #2	Nano/Micro Fabrication	Fabrication of nanogap metal electrode with sacrificial layer techniques	Kan Yu, Xiaofei Wang, Xiaomei Yu, and Andi Zhao	Peking University, China
427	T8	Nano/Micro Fabrication III	Deterministic Three-Dimensional Micro-Assembly in Parallel	Huo-Chuan Lin, Chia-Chung Wang, and Kerwin Wang	National Changhua University of Education, Taiwan
428	Poster session #1-1	Nano-materials	Synthesis and Catalytic Application of Shape-Controlled Gold Nanostructures in Aqueous Solution	Chih-Wei Chou, Ya-Wen Cheng, and Wan-Chu Huang	China Medical University, Taiwan
429	W11	Special invited session: Cross-Strait MEMS/Nano session #4	Analysis and design of electrostatic vibration-to-electricity micro power generators	Yi Chiu	National Chiao Tung University, Taiwan
431	W5	Special invited session: Cross-Strait MEMS/Nano session #3	Fabrication of Optical Multifunction Film	CT Pan	National Sun Yat-Sen University, Taiwan
432	Poster session #3-2	Nano/Micro Sensors and Actuators	The Research of A Novel Gyroscope based on high Q micro-Resonator	Liu Jun, Wang Xiaoqian, Zhao Min, Yan Yingzhan, Jia Pengfei, Zhang Yuguang, Li Jie, and Yan Shubin	North University of China, China
433	Poster session #2	Nano/Micro Fabrication	A novel packaging method for stable microsphere coupling system	S.-B. Yan, Y.-Z. Yan, J. -Li, J.-J Xiong , C.-Y. Xue, J.-Liu, and W.-D. zhang	North University of China, China
434	Keynote speaker	#2	Emergence of On-chip Robotics for Biomedical Innovations	Fumihito Arai	Nagoya University, Japan

435	M11	Special invited session: Acoustic Micro/Nanofluidics	Bubbles and drops in MEMS piezo-acoustic inkjet printing	Michel Versluis	University of Twente, Netherland
436	M11	Special invited session: Acoustic Micro/Nanofluidics	Accelerated Surface Plasmon Resonance (SPR) Biosensing by Surface Acoustic Wave (SAW) Microstreaming	Renaudin Alan	Université de Sherbrooke, Canada
437	W6	Special invited session: Micro and Nano Technology in Biomedical Applications	Nanoparticles and nano-ensembles for multi-modal diagnosis and therapy	Jin-Woo Kim	University of Arkansas, USA
438	W6	Special invited session: Micro and Nano Technology in Biomedical Applications	New Radiation Dosimeter Technologies	John Yeow	University of Waterloo, Canada
439	W6	Special invited session: Micro and Nano Technology in Biomedical Applications	Nano-Particle Polymer Composite MEMS Corrosion Sensor	Adam Huang	University of Arkansas, USA
440	T11	Special invited session: Cross-Strait MEMS/Nano session #1	A highly sensitive electrochemical impedimetric immune-nanosensor for the detection of dust mite antigen Der p2	Gou-Jen Wang	National Chung-Hsing University, Taiwan
441	T5	Special invited session: Tsing Hua University 100th anniversary	Process Monitoring for Nanoimprint Lithography	H. Hocheng	National Tsing Hua University, Taiwan
443	T12	Special invited session: Cross-Strait MEMS/Nano session #2	A Wireless CMOS Drug Delivery Chip Based on Electrothermal Activation Technique	Yao-Joe Yang	National Taiwan University, Taiwan
445	T12	Special invited session: Cross-Strait MEMS/Nano session #2	Common platform for packaging micromachined devices	Jung-Tang Huang	National Taipei University of Technology, Taiwan
446	T5	Special invited session: Tsing Hua University 100th anniversary	Controllable Deposition of the Au Nanostructure and its Applications	Zhou Zhaoying	Tsinghua University, China

447	Plenary speaker	#1	Centrifugal Microfluidics for Miniaturization, Integration, Automation and Parallelization of Tests on Commercially Available Instruments	Roland Zengerle	University of Freiburg, Germany
448	Keynote speaker	#4	Miniaturized biomedical system for diagnostic and therapeutic application	Tae-Song Kim	Korea Institute of Science and Technology (KIST), South Korea
449	Plenary speaker	#5	Lab on a chip: a key platform for bio-application	Bin-Cheng Lin	Chinese Academy of Science, China
450	Plenary speaker	#6	Ion-, chemical-, and gene-sensing using DNA-modified Au nanoparticles	Mizuo Maeda	RIKEN, Japan
451	W7	Misc.	A bus transfer optimization model based on genetic algorithm	Shen Xuewu, Zeng Liming, and Ge Pingping	Wuhan University of Technology, China
452	W7	Misc.	Operation Parameters Optimization Of Butadiene Extraction Distillation Based On Neural Network	Fengqin Chen and Jianguo Zheng	Donghua University, China
453	W3	Gas Sensors	Novel Porous Polyimide Film Doped with Carbon Black for Volatile Organic Compounds Detection	Yi-Hang Ku and Che-Hsin Lin	National Sun Yat-Sen University, Taiwan
454 (455)	W1	Power/RF MEMS	Implementation and Characterization of a Quality-Factor-Controllable Micromachined Inductor	Yu-Che Huang, Ben-Hwa Jang, and Weileun Fang	National Tsing Hua University, Taiwan
456	Plenary speaker	#3	Metamaterials: A New Frontier of Science and Technology	Xiang Zhang	University of California at Berkeley, USA
457	M11	Special invited session: Acoustic Micro/Nanofluidics	Ultrasonic pathways for MEMS actuation and sensing	Amit Lal	Cornell University, USA
458	Keynote speaker	#1	Bottom-up Assembled Plasmonic Metamaterials for Applications in Nanophotonics	Shangjr Gwo	National Tsing Hua University, Taiwan
459	W11	Special invited session: Cross-Strait MEMS/Nano session #4	Novel Diascopic Illumination Configuration for Wavelength-resolved Bio-detection in Microfluidic Chips	Che-Hsin Lin	National Sun Yat-Sen University, Taiwan
460	W6	Special invited session: Micro and Nano Technology in Biomedical Applications	Universal microfluidic lab-on-a-chip systems for PCR analysis	Yong-Sang Kim	Myongji University, South Korea
461	W6	Special invited session: Micro and Nano Technology in Biomedical Applications	A Software-based Networking Solution for Chemical and Biological Sensors	John D.H. Mai	Breaux, Vialogy, Pasadena, CA, USA

468	T5	Special invited session: Tsing Hua University 100th anniversary	Realization and Characterization of Nano Electromechanical Devices using ZnO Nanowires	Zhu Rong	Tsinghua University, China
469	Plenary speaker	#2	MicroRobotics and NanoMedicine	Bradley J. Nelson	ETH, Zurich
470	Plenary speaker	#4	Cell Count Using Microflow Cytometer	Yu-Chong Tai	California Institute of Technology, USA
477	T3	Nano/Micro Fluidics II	Digital Microfluidic Operations on Micro-Electrode Array Architecture	Gary Wang, Daniel Teng, and Shih-Kang Fan	University of Saskatchewan, Canada
479	Poster session #1-1	Nano-materials	Heterojunction photodiodes based on p-NiO/ n-ZnO for ultraviolet detection	Shu-Yi Tsai , Min-Hsiung Hon, and Yang-Ming Lu	National Cheng Kung University, Taiwan
480	T4	Nano/Micro Sensors	Integration of Micro Electrodes and AAO Nano Porous Sensor for Drosophila Behavior Application	Wei-Cheng Lai, Yu-Tao Lee, Chien-Chung Fu, Chitsung Hong, Yu-Che Huang, and Weileun Fang	National Tsing Hua University, Taiwan
481	T5	Special invited session: Tsing Hua University 100th anniversary	Smart Optical Components Based on Liquid-Liquid Interface Manipulation by Dielectric Force	J. Yeh	National Tsing Hua University, Taiwan
482	T9	Bio Devices and System II	Olfactory Receptors Molecular Sensors Using Surface Acoustic Wave Chip	Chunsheng Wu, Liping Du, Ping Wang, and Luhang Zhao	Zhejiang University, China
483	Keynote speaker	#5	Radiosynthesis on EWOD Platform for Positron Emission Tomography (PET) Imaging	Chang-Jin Kim	University of California at Los Angeles (UCLA), USA
487	T5	Special invited session: Tsing Hua University 100th anniversary	Integration of micro-PCR with CMOS EC detection: Opportunity and Challenges	Liu zewen	Tsinghua University, China
488	T12	Special invited session: Cross-Strait MEMS/Nano session #2	Patterning nanostructures on curved and non-planar surfaces by Hybrid Nanoimprint-Soft Lithography (HNSL)	Ge Haixiong	Nanjing University, China
493	Keynote speaker	#3	Sensor challenges for future bio and biomed applications	Meyya Meyyappan	Postech, S. Korea and NASA Ames Research Center, USA
494	W4	Special invited session: Emerging Frontiers in Nano/Micro Engineered Systems	Decoding Circulating Nucleic Acids in Human Serum Using Microfluidic Single Molecule Spectroscopy	Jeff Wang	Johns Hopkins University, USA

495	W4	Special invited session: Emerging Frontiers in Nano/Micro Engineered Systems	Effect of Mechanical Deformation on Single-Cell Electroporation at the Nanoscale	Yi-Kuen Lee	Hong Kong University of Science and Technology, Hong Kong
497	W4	Special invited session: Emerging Frontiers in Nano/Micro Engineered Systems	Nanodiamond-Therapeutic Antibody Complexes for Applications in Nanoscale Medicine	Dean Ho	Northwestern University, USA
498	W4	Special invited session: Emerging Frontiers in Nano/Micro Engineered Systems	Nanostructured Materials: From Lotus Leaf to Phase Change Process	Yen-Wen Lu	National Taiwan University, Taiwan
499	M11	Special invited session: Emerging Frontiers in Nano/Micro Engineered Systems	Dielectrophoretic Manipulation of Rolled-up Microtubes by Surface Acoustic Waves	Hagen Schmidt, Xianghua Kong, Christoph Deneke, and Oliver G. Schmidt	Institute for Solid State Research, Germany
500	Poster session #3-2	Nano/Micro Sensors and Actuators	Real-time Monitoring DNA Hybridization by Guided Resonant mode Biosensor	Jiann-Hwa Lue, Ting-Jou Ding, Tsung-Hsun Yang, Hsin-Chun Huang, Che-Lung Hsu, Jen-Tsai Liu, Wen-Yih Chen, and Jenq-Yang Chang	National Central University, Taiwan
501	Poster session #2	Nano/Micro Fabrication	The Rapid Fabrication Process for Guided-Mode Resonance Filter	Ting-Jou Ding, Jiann-Hwa Lue, Tsung-Hsun Yang, Chien-Chieh Lee, Sheng-Fu Lin, and Jenq-Yang Chang	National Central University, Taiwan
503	Poster session #1-1	Nano-materials	Effect of the preheating temperature and polarization treatment on the electrical properties of 0-3 PZT/IPN piezoelectric composites	Lin Xiuling, Tang Dongyan, Wu Xuelian, and Lin Xiuling	Harbin Institute of Technology, China
519	Poster session #2	Nano/Micro Fabrication	Effects of Silicon Nanostructure Morphology at Different Metal Catalyst Layer Thicknesses in Metalassisted Etching	Chia-Wen Tsao and Chia-Pin Chang	National Central University, Taiwan
521	Poster session #3-2	Nano/Micro Sensors and Actuators	Hybrid system for airspeed measurement using dual MEMS sensors	Q. Z. Wei, R. Zhu, R.Y. Que, and Z. Cao	Tsinghua University, China
524	Poster session #2	Nano/Micro Fabrication	Fabrication of a Grating Light Modulator Using Standard CMOS Processes	Araya Pothisorn, Alex J Hariz, Bruce Wedding, and Opas Trithaveesak	University of South Australia, Australia
525	T4	Nano/Micro Sensors	pH Sensing and Noise Characteristics of Si Nanowire Ion-Sensitive Field Effect Transistors	Sungho Kim, Kihyun Kim, Taiuk Rim, Chanhon Park, Donghwan Cho, Chang-Ki Baek, Yoon-Ha Jeong, M. Meyyappan, and Jeong-Soo Lee	Pohang University of Science and Technology (POSTECH), South Korea
526	Poster session #1-2	Nano-materials	An Interstitial Fluid Transdermal Extraction, Collection and Measurement System	Haixia Yu, Dachao Li, Kexin Xu, Robert C. Roberts, and Norman C. Tien	Tianjin University, China

527	M12	G Sensors	Equivalent circuit analysis of micromechanical resonator using comb transducer model with built-in displacement detection	Hiroyuki Tokusaki, Yoshikazu Hirai, Koji Sugano, Toshiyuki Tsuchiya, and Osamu Tabata	Kyoto University, Japan
528	Poster session #2	Nano/Micro Fabrication	Influence of Hot Embossed Process Parameters on Biodegradable Polymer Microstructure for Drug Delivery	Yang Gao, Tianning Chen, Xiaopeng Wang, and Junqiang Tang	Xi'an Jiaotong University, China
530	Poster session #3-2	Nano/Micro Sensors and Actuators	Modal harmonic simulation of decoupled resonators for developing MEMS tuning fork gyroscope with low acceleration sensitivity	Thakur Praveen Singh, Koji Sugano, Toshiyuki Tsuchiya, and Osamu Tabata	Kyoto University, Japan
531	M8	Nano/Micro Fabrication I	Evaluation of UV Roller Imprinting Using Replicated Fluorinated Film Molds	T. Shibazaki, L. Li, H. Shinohara, S. Shoji, J. Mizuno, K. Tsunozaki, and Y. Kawaguchi	Waseda University, JAPAN
532	Poster session #1-1	Nano-materials	Carbon Nano Partitions for Heat Dissipation	Leon C. J. Kuo and Jeff T. H. Tsai	Tatung University, Taiwan
535	M4	Nano-photonics	Cortical blood flow imaging with a portable MEMS based 2-photon fluorescence microendoscope	Wibool Piyawattanametha and Mark J. Schnitzer	Stanford University, California
536	M8	Nano/Micro Fabrication I	NEXAFS and XPS studies of VUV/O3 Treated Aromatic Polyurea for High-Speed Electrophoresis Microchips	H. Shinohara, A. Nakahara, S. Shoji, J. Mizuno, Y. Takahashi, F. Kitagawa, K. Otsuka, and O. Ohara	Waseda University, Japan
537	W9	Bio Devices and System III	Modeling of Circulating Tumor Cells via Cell Lines and Mononuclear Cells in a Microfluidic Disk	Chen-Lin Chen, Yu-Cheng Pan, Ken-Chao Chen, and Andrew M. Wo	National Taiwan University, Taiwan
539	W4	Special invited session: Emerging Frontiers in Nano/Micro Engineered Systems	Size Really Matters: Patenting the Nano World	Michael Chen, Esq.	Alpine Electronics of America, Inc.