

## Oral Session 1 口頭報告 I

8:30-10:00, June 1<sup>st</sup>, 2018 (Friday)

Session: Material and Device Characterization

Venue: Room BX

Chairs: 李健峰教授 / 鍾添淦教授

Time	Paper	Page
8:30-9:00	<b>Invited speaker:</b> 鍾添淦教授 創新微機電磁感測器與致動器	
9:00-9:12	<b>A1-00-0021</b> PEDOT:PSS 壓力感測器於軟性材料 Agarose 凝膠基底之壓阻特性探討 符翊, Rajat Subhra Karmakar, 吳沛宇, 盧郁仁, 王哲麒	
9:12-9:24	<b>A1-00-0004</b> A Novel Solvent Bonding Method for Creating A 3D, Nonplanar, and Hybrid PLA/PMMA Microfluidic Chip Lynh Huyen Duong, Pin-Chuan Chen	
9:24-9:36	<b>A2-00-0001</b> 利用超音波輔助溶解技術製作非平面微流道晶片 周敬展, 陳品銓	
9:36-9:48	<b>A1-00-0007</b> 基於聚合物/多壁奈米碳管之氣體感測器系統設計、製作與驗證 黃煜傑, 張世承, 林澤嫩, 徐舜熙, 邱俊誠	
9:48-10:00	<b>A1-00-0008</b> 探討化學吸收劑作為濕度感測器之性能優劣 吳宏達, 吳詠婕	

Session: Chemical Sensing Technology

Venue: Room BY

Chair: 陳生明教授

Time	Paper	Page
8:30-9:00	<b>Invited speaker:</b> Prof. Ichiro Yamashita Title: Electrochemical Impedance Spectroscopy (EIS) DNA-Sensor with Ligands and Coarse Sample Preparation	
9:00-9:12	<b>B1-00-0022</b> 一個簡單的阿斯巴甜電分析測定以區分正常飲料和節食軟飲料 Anh V.T. Le (黎武簪纓), Ya-Ling Su (蘇雅鈴), Shu-Hua Cheng (鄭淑華)	
9:12-9:24	<b>B2-00-0035</b> Optical Fibers Sensing Volatile Organic Compounds Using Electrospinning PANI/PMMA Composite Fibers Duy Linh Vu, Ming-Chung Wu	
9:24-9:36	<b>B4-00-0010</b> Rapid Heavy metal Ion Screening using Extended Gate Ion Selective Field Effective Transistor Revathi Sukesan, Yi-Ting Chen, Suman Shahim and Yu-Lin Wang	
9:36-9:48	<b>B4-00-0012</b> Non-invasive monitoring of Cellular Bioelectric Signals using GaN High	

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	Electron Mobility Transistor A.K. Pulikkathodi, I. Sarangadharan, Y.H. Chen, G.B. Lee and Y.L. Wang	
9:48-10:00	<b>C1-00-0009</b> Immofluorescence Assay of Dengue Virus by Dielectrophoretic Microfluidic Chip Misliani (蜜安妮), Edwar Iswardy, Tien-Chun Tsai, I-Fang Cheng, Tzu-Chuan Ho, Guey Chuen Perng, Hsien-Chang Chang	

Session: Lab-on-a-chip Microdevices or QCM, SAW and Wireless Sensors I

Venue: Room BZ

Chair: 駱碧秀教授

Time	Paper	Page
8:30-9:00	<b>Invited speaker:</b> 王立民教授 Assaying biomarkers via the saturated magnetization, residual magnetization and blocking temperature of biofunctionalized magnetic nanoparticles associated with biotargets	
9:00-9:12	<b>C1-00-0016</b> 用於質譜儀偵測之 PDMS 防蛋白質沾黏表面改質方法 薛雅諭, 吳嘉群, 余兆松, 林彥亨	
9:12-9:24	<b>C1-00-0017</b> Development of a rapid and sensitive biosensor for a food-born toxin: botulinum 張育豪; 徐偉恩; 林致廷	
9:24-9:36	<b>C1-00-0022</b> 微流體道中 pH 值之二維化學影像技術 游欣容, 陳琮誠, 陳昱頻, 楊家銘	
9:36-9:48	<b>C1-00-0024</b> Study of in vitro Diagnostic Pre-concentration Technique via Surface Acoustic Wave K.W. Chang, S.H. Chiang and J.C. Chen	
9:48-10:00	<b>C1-00-0027</b> Detection of Glycated Hemoglobin by Using the Micro-mass Sensing Device Wei-Chien Weng; Siou-Wum Yeh; Yu-Cheng Lin	

Session: Lab-on-a-chip Microdevices or QCM, SAW and Wireless Sensors II

Venue: Room 2X

Chair: 陳榮治教授

Time	Paper	Page
8:30-9:00	<b>Invited speaker:</b> 許佳賢教授 Microfluidic Device for High-throughput Cell Spheroids Culture	
9:00-9:12	<b>C1-00-0020</b> 應用於寡精症之低細胞損傷精子分選微流道晶片 盧鈺心, 黃泓淵, 王依雯, 饒達仁	

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9:12-9:24	<b>C1-00-0003</b> 微流體感測裝置應用於抗菌劑(三氯沙)對斑馬魚胚胎粒線體代謝之影響 黃士豪, 徐耀德	
9:24-9:36	<b>C1-00-0015</b> 應用於個人化生物分子檢測之血液分離技術研發 林庭瑋	
9:36-9:48	<b>C1-00-0012</b> 設計微流體晶片於人工輔助生殖技術之應用 郭聖佑, 李博仁	
9:48-10:00	<b>C1-00-0006</b> 超快速 PCR 微流體晶片 廖祥竣, 翁胤翔, 宋政達, 邱全芊, 林彥亨	

Session: Optical Sensing Technologies I

Venue: Room 2Y

Chair: 黃建璋教授

Time	Paper	Page
8:30-9:00	<b>Invited speaker:</b> Prof. Pao Tai Lin Chip-scale and Label-free Biochemical Sensing via Mid-Infrared Integrated Photonics and Opto-nanofluidics	
9:00-9:12	<b>B2-00-0009</b> 表面平坦型奈米光柵導模共振感測器分析 郭文凱; 郭勝豐	
9:12-9:24	<b>B2-00-0019</b> High-Performance Plasmonic Nanolaser Sensor with a Nanotrench Defect Cavity Zhen-Ting Huang, Pi-Ju Cheng, Bo-Tsun Chou, Pin-Hua Wu, Ting-Jiun Jiang, Chun-I Wu, Jin-Chen Hsu, Kuo-Ping Chen, Tien-Chang Lu, Tzy-Rong Lin	
9:24-9:36	<b>B2-00-0020</b> Multiple Biomolecular Detections using Gold Capped Nanowire Arrays and Hyperspectral Imaging Analysis Yi-Hsin Tai; Po-Han Fu; Kuang-Li Leea; PEi-Kuen Wei	
9:36-9:48	<b>B2-00-0028</b> 具有金奈米粒子之波導模態共振生物晶片光學特性分析 黃建誌; 張國恩	
9:48-10:00	<b>B2-00-0031</b> A Solution-Processed N-Doped Fullerene Cathode Interfacial Layer for High-Performance Perovskite Photodetectors Wen-Yi Liao; Min-Zhen Lin; Bo-Chou Tsai; Chih-Yu Chang	

