

Poster Session – Group B	
25 <sup>th</sup> June 2024 (Tuesday) @ L2 Atrium	
Physical Sensors and Micro/Nano Systems	
OR-03-0123	<b>A Piezoresistive Pressure Sensor with a Hollow Stress Concentration Beam</b> Dr Qinggang Meng <i>Chinese Academy of Sciences</i>
OR-03-0131	<b>Leakage Diagnosis in Pipeline with a ScAlN-based PMUT Array</b> Mr He Huang <i>Chongqing University</i>
OR-03-0162	<b>A Resonant Magnetic Field Sensor Based on Z-Cut Lithium Niobate Thin Film Delay Line</b> Dr Mingye Du <i>ShanghaiTech University</i>
Chemical Sensors and Micro/Nano Systems	
OR-04-0099	<b>Reusability of Silver Nanoparticle SERS Sensors Using TiO<sub>2</sub> and UV Irradiation</b> Mr Kenta Yamada <i>Kyushu University</i>
OR-04-0166	<b>Self-Sensing Readout Circuit for PZT Cantilever Based Hydrogen Sensor</b> Mr Jayden Moore <i>University of New South Wales</i>
Bio/Biomedical Sensors and Micro/Nano Systems	
OR-05-0030	<b>Quantification Method of Chlorophyll <i>a</i>, <i>b</i> Standard Reagent by Filter-Free Wavelength Sensor</b> Mr Ryoma Mibu <i>Toyohashi University of Technology</i>
OR-05-0054	<b>Controlling Fluidity of Lipid Molecules in Cell Membrane by Non-Thermal Atmospheric Pressure Plasma Towards Effective Gene Transfer</b> Mr Ryunosuke Tsuji <i>Meijo University</i>
OR-05-0066	<b>Development of a Thin-Film pH Sensor for Quantitative Detection of MicroRNAs</b> Mr Kazuya Suzuki <i>Tokyo University of Technology</i>
OR-05-0092	<b>Enhancing Sensitivity of Living Organism Biosensor by Atmospheric Pressure Plasma Exposure</b> Prof Shinya Kumagai <i>Meijo University</i>
OR-05-0116	<b>A Low-Cost and Flexible Multi-Modal Sweat Sensing System Based on Microelectronic Printing Technology</b> Mr Minghan Li <i>Shenzhen University</i>
OR-05-0118	<b>Screen-Printed Electrochemical Immunosensor Based on Zwitterionic Modification for Detection of Human Serum Albumin</b> Mr Yao-Liang Chang <i>National Sun Yat-sen University</i>
OR-05-0196	<b>Calcium Ion-Sensitive Field Effect Biosensor for Biomedical Applications</b> Mr Yong Qiu <i>Zhejiang University</i>
Medical Devices and Micro/Nano Systems	
OR-06-0073	<b>Slip Joint Adaptor Enabling Respiration Airflow Measurement in Tracheal Intubation Tube</b> Ms Ayaka Sueyoshi <i>Hiroshima City University</i>
OR-06-0087	<b>Safety Enhancement Consideration of Pitot Tube Sensor Probe Towards Airflow Measurement of Exhalation Inside Pulmonary Airway</b> Ms Aoi Miyawaki <i>Hiroshima City University</i>

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OR-06-0171	<b>Automated pMEF System for High-Throughput CTC Detection in Multi-Cancer Diagnosis Clinical Validation and Performance Analysis</b> Mr Jose Cabot Almela <i>The Hong Kong University of Science and Technology</i>
<b>Micro/Nano Fluidics</b>	
OR-07-0040	<b>Application of Electrical Impedance Spectroscopy for the Detection of Malaria Infected Cells</b> Dr Nitipong Panklang <i>Rajamangala University of Technology Thanyaburi</i>
OR-07-0095	<b>Mixing of Multiple Solutions by Selective Dispensing Using Volume Control in Droplet-Array Sandwiching Technology</b> Mr Yoshinori Miyata <i>Ritsumeikan University</i>
OR-07-0135	<b>Posture Evaluation of Tubular Microparticles in Microfluidic Channel</b> Prof Masaaki Oshita <i>The University of Electro-Communications</i>
OR-07-0164	<b>Screening and In-Situ Cultivation of Single Bacteria in Microdroplets Using Dielectrophoresis</b> Mr Liang Wan <i>The Hong Kong Polytechnic University</i>
<b>Actuators</b>	
OR-08-0156	<b>Modelling of Parallel In-Plane Electrothermal Actuators</b> Ms Yen Nee Ho <i>University of New South Wales</i>
<b>Microelectromechanical Systems (MEMS) and Nanoelectromechanical Systems (NEMS)</b>	
OR-09-0001	<b>PMUT-Based Spatial Relative Humidity Sensing</b> Dr Mantalena Sarafianou <i>Agency for Science, Technology and Research</i>
OR-09-0017	<b>Experimental Investigation of Mode Localization in Non-Hermitian System</b> Dr Man-Na Zhang <i>Southeast University</i>
OR-09-0038	<b>Nonlinearity of Dual Electrodes Piezoelectric Micromachined Ultrasonic Transducer</b> Mr Junxiang Cai <i>ShanghaiTech University</i>
OR-09-0041	<b>Highly Sensitive Thermal Differential Pressure Sensor Based on Flexible Microchannel Packaging</b> Dr Xin Ke <i>Beihang University</i>
OR-09-0051	<b>Au-Si Interdiffusion Effects on Responsivity in Surface Plasmon Resonance Sensors</b> Mr Masaya Ukaji <i>The University of Electro-Communications</i>
OR-09-0069	<b>System-Level Modeling Methodology for MEMS Sensor Based on Energy Field Analyzing</b> Prof Zai-Fa Zhou <i>Southeast University</i>
OR-09-0076	<b>A Computer Vision Approach for Efficient and Affordable Deformation Analysis</b> Mr Joseph Joy <i>Agency for Science, Technology and Research</i>
OR-09-0105	<b>Nonlinearity Reduction of pMUT Using Thin Walled Support</b> Mr Wei Fang <i>Tohoku University</i>