

Poster Session – Group C	
26 th June 2024 (Wednesday) @ L2 Atrium	
Microelectromechanical Systems (MEMS) and Nanoelectromechanical Systems (NEMS)	
OR-09-0125	Hydrogel on a Split Ring Resonator Soil Water Content Sensing Using Swelling Characteristics Mr Fumiya Noto <i>The University of Electro-Communications</i>
OR-09-0138	AlN Based Straight and Tapered Cantilever Design Piezoelectric MEMS Energy Harvester Mr Hang-Gyeom Kim <i>Daegu Gyeongbuk Institute of Science & Technology</i>
OR-09-0147	Ultrasonic Transmit Beamsteering Using Slitted Transducer Design Mr Yinuo Zhao <i>Hwa Chong Institution</i>
OR-09-0155	Optimization of the Fabrication Process Piezoelectric SAWR Sensor for Enhanced VOCs Detection Mr Kyeong Jun Park <i>Daegu Gyeongbuk Institute of Science & Technology</i>
OR-09-0169	A Novel Comb-Drive Actuator Design for Achieving Ultra-Low Driving Voltage Mr Qingze Guan <i>National University of Singapore</i>
OR-09-0179	An MRI Measurement Setup Integrating a Perfusion Mechanism and a Low Parasitic Capacitance RF Coil with Stepped Structure Mr Hayamizu Ryo <i>Chuo University</i>
OR-09-0190	Effect of Scandium Doping Concentration on Performance Metrics of ScAlN-Based PMUT Mr Sean Jun Zhong Wong <i>National University of Singapore</i>
RF MEMS/NEMS	
OR-10-0003	High-Quality Gold Electroplating Process for RF MEMS Switches Dr Lili Jiang <i>Southeast University</i>
OR-10-0098	High Electromechanical Coupling FBAR and Wideband Acoustic Filter Based on Sodium Niobate Thin Films Dr Tiancheng Luo <i>Agency for Science, Technology and Research</i>
OR-10-0160	The Suppression of Transverse Modes in FBAR Resonator with Double Groove Configuration Mr Yuanhang Chen <i>Chongqing University</i>
Optical MEMS and Nano-Photonics	
OR-11-0035	Ultrasensitive Magnetic Modulation of Structural Colors Based on Cholesteric Liquid Crystal Ms Luyao Wang <i>The University of Hong Kong</i>
OR-11-0142	Observation of Nonlinear Oscillation in PCN Cavity Optomechanical System Mr Xinchun Wan <i>National University of Singapore</i>
OR-11-0161	Utilization of MEMS-Tunable Waveguide Coupler for Chip-Scale Spectrometer and Hyperspectral Imaging System Mr Haoyang Sun <i>National University of Singapore</i>
OR-11-0182	Enhanced Stress Distributions in Micro Dry-Etched Perfluorinated Polymer Optical Fibers Mr Takuto Nakanishi <i>Ritsumeikan University</i>
OR-11-0194	The Response Characteristics of Membrane-Free Acoustic Sensor Based on Ring Resonator at Low-Atmospheric Pressure Ms Yifan Luo <i>North University of China</i>

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Energy and Power MEMS/NEMS	
OR-12-0022	An Electret-Embedded MEMS Capacitance Varying Charge Pump for High-Voltage Generation Ms Menghan Song <i>Waseda University</i>
OR-12-0032	Microfluidic Device for Hydrogen Generation by Microbial Electrochemical Systems Mr Yeonwoo Cha <i>Hanyang University</i>
OR-12-0045	Software-Based Power Management Architecture for Autonomous IoT Gateways with Energy Harvesters Dr Koki Yamamoto <i>Ebara Corporation</i>
OR-12-0085	Alternative Fabrication of ZnO Metamaterial Piezoelectric Vibration Energy Harvester Through Stamping Process Dr Mohammad Akita Indianto <i>Universitas Indonesia</i>
OR-12-0181	An Equivalent Circuit Model for In-Plane SAE-MEMS Vibrational Energy Harvesters Mr Kyosuke Tokuno <i>Ritsumeikan University</i>
OR-12-0184	3D Printed Piezoelectric Vibration Energy Harvester Dr Suna Ju <i>Ewha Womans University</i>
AI, Machine Learning, and Sensing Algorithms	
OR-13-0028	Investigation on Calibration Methodology for Wearable Piezoelectric Sensor Thread Using Airflow Sensor for Quantitative Respiration Measurement Mr Kenta Horie <i>Hiroshima City University</i>
OR-13-0124	Automated Analysis of Cellular State on Large-Scale Using Segmentation Mr Ryoma Suzuki <i>Toyohashi University of Technology</i>
5G/6G IoT	
OR-15-0130	A Novel Piezoelectric Heterogeneous Stacked Resonator on LNOI Suitable for 5G Exhibits Excellent Frequency Stability Dr Mengke Qi <i>Chongqing University</i>
Novel Applications of Micro/Nano Systems	
OR-16-0002	Free-Standing Flexible Two-Dimensional Graphene Composite for High Volumetric Capacitance Supercapacitors Dr Jihyuk Choi <i>Korea Institute of Geoscience and Mineral Resources</i>
OR-16-0005	Passive Wireless Partial Discharge Sensors with Multiple Resonances Prof Lei Dong <i>Southeast University</i>
OR-16-0088	Integrating Flexible Airflow Sensor into Tracheal Intubation Tube for Respiration Monitoring During Canine Tartar Removal Mr Ren Nagayama <i>Hiroshima City University</i>