



# 7<sup>th</sup> IEEE Electron Devices Technology and Manufacturing (EDTM) Conference 2023

March 7 – 10, 2023 / COEX Seoul, Korea

4D. Physical Sensors and Resonators	
Session Date:	March 8(Wed.), 2023
Session Time:	10:55-12:40
Session Room:	Room D (#308 bc)
Session Chair:	Prof. Hongyu Yu (The Hong Kong University of Science and Technology)
	Prof. Seongjun Park (Korea Advanced Institute of Science and Technology)

**[4D-1] [Invited] 10:55-11:15**

## Piezoelectric Micromachined Ultrasonic Transducers for Consumer Electronics Applications

Lei Zhao and Yipeng Lu

*Peking University*

**[4D-2] 11:15-11:30**

## Transverse Spurious Mode Free SAW Resonators and Delay Line on GaN/Si with High Quality Factor

Guofang Yu, Renrong Liang, Haiming Zhao, Jun Fu and Tian-Ling Ren

*Tsinghua University*

**[4D-3] 11:30-11:45**

## High Q-Value Solid Mounted Resonator Based on Aluminum Nitride Film

Yuanhang Qu, Xiang Chen, Xiyu Gu, Zhiwei Wen, Yao Cai, Yan Liu and Chengliang Sun

*Wuhan University*

**[4D-4] [Invited] 11:45-12:05**

## Micro/Nano-Engineered, Self-Powered Physical/Chemical Sensors for Smart IoT

Inkyu Park

*Korea Advanced Institute of Science and Technology*

**[4D-5] [Invited] 12:05-12:25**

## Thermal Packaging Utilizing Gallium-Based Liquid Metals

Seokkan Ki and Youngsuk Nam

*Korea Advanced Institute of Science and Technology*

**[4D-6] 12:25-12:40**

## ZnO Pressure Sensor with TFT Structures Based on Piezotronic Effect

Ki-Nam Kim, Woon-San Ko, Jun-Ho Byun, Do-Yeon Lee, Eun-Gi Kim, Eun-A Koo, So-Yeon Kwon and Ga-Won Lee

*Chungnam National University*