



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

March 7 – 10, 2023 / COEX Seoul, Korea

18D. Chemical and Flexible Sensors	
Session Date:	March 8(Wed.), 2023
Session Time:	15:15-16:45
Session Room:	Room D (#308 bc)
Session Chair:	Prof. Hyoun Woo Kim (Hanyang University) Prof. Sung Jae Kim (Seoul National University)

**[18D-1] [Keynote] 15:15-15:40**

## Biomimetic Approaches with Stretchable Ionics

Jeong-Yun Sun

*Seoul National University*

**[18D-2] [Invited] 15:40-16:00**

## The Development Progress of Origami-Enabled Flexible Electronics

Ruoqin Wang<sup>1</sup>, Rui Jiao<sup>1</sup>, Xingru Chen<sup>1</sup>, Yixin Wang<sup>1</sup>, Yongkai Li<sup>1</sup>, Yang Deng<sup>1</sup>, Yue Hou<sup>1</sup>, Chili Wu<sup>1</sup> and Hongyu Yu<sup>1,2</sup>

<sup>1</sup>The Hong Kong University of Science and Technology, <sup>2</sup>HKUST Shenzhen-Hong Kong Collaborative Innovation Research Institute

**[18D-3] 16:00-16:15**

## Low-Resistance (NH<sub>4</sub>)<sub>x</sub>WO<sub>3</sub> Nanowire Sensors for Acetone Recognition Operating at Low Voltage with Low Power Consumption

Yuki Narita, Takahisa Tanaka and Ken Uchida

*The University of Tokyo*

**[18D-4] 16:15-16:30**

## Hybrid Graphene Oxide FET to Achieve Amplified Gas Sensitivity

Arnab Hazra and Radha Bhardwaj

*Birla Institute of Technology & Science*

**[18D-5] 16:30-16:45**

## Temperature Measurement Method Using FET Type Gas Sensor

Chayoung Lee<sup>1,2</sup>, Gyuweon Jung<sup>1</sup>, Wonjun Shin<sup>1</sup>, Yujeong Jeong<sup>1</sup>, Jinwoo Park<sup>1</sup>, Donghee Kim<sup>1</sup>, Jae-Joon Kim<sup>1</sup> and Jong-Ho Lee<sup>1,3</sup>

<sup>1</sup>Seoul National University, <sup>2</sup>SK hynix Inc., <sup>3</sup>Ministry of Science and ICT