

# I. MEMS & Sensor Systems 분과

2020년 2월 14일(금), 09:00-10:30 / Room E (루비 II, 5층)

## ■ [FE1-I] Gas Sensing Technology

좌장: 안재혁 교수 (광운대학교)

<b>FE1-I-1</b> 09:00-09:30	<b>[초청]</b> <b>Fabrication of Heterogeneous Metal Oxide Nanostructure Array for Gas Mixture Sensors</b> Daejong Yang, Seungmun Jeon, Bumjoo Kim, Dahoon Ahn, and Jung-hoon Yun <i>Kongju National University</i>
<b>FE1-I-2</b> 09:30-09:45	<b>Effects of Body Bias and Operation Region on Gas Response in FET-type Gas Sensor having Horizontal Floating-Gate.</b> Jinwoo Park, Seongbin Hong, Yujeong Jeong, Gyuweon Jung, Wonjun Shin, Dongkyu Jang, and Jong-ho Lee <i>Department of Electrical and Computer Engineering and Inter-University Semiconductor Research Center (ISRC), Seoul National University</i>
<b>FE1-I-3</b> 09:45-10:00	<b>Highly Sensitive and Selective Gas Sensing Performance in MOSFET-Based Gas Sensor Using Facile Metal Nanoparticle Agglomeration Process</b> Seongbin Hong, Yujeong Jeong, Gyuweon Jung, Wonjun Shin, Jinwoo Park, Jung-Kyu Lee, Dongkyu Jang, and Jong-Ho Lee <i>Department of Electrical and Computer Engineering, and Inter-University Semiconductor Research Center, Seoul National University</i>
<b>FE1-I-4</b> 10:00-10:15	<b>Comparatively Properties of Hydrogen Gas Sensor Pd/Ta<sub>2</sub>O<sub>5</sub> and Pd/TiO<sub>2</sub> Schottky Diode based on Si and SiC Substrates</b> Muhammad Hussain <sup>1</sup> , Sajjad Hussain <sup>1</sup> , Asif Ali <sup>2</sup> , Syed Hassan Abbas Jaffery <sup>1</sup> , and Jongwan Jung <sup>1</sup> <i><sup>1</sup>Graphene Research Institute, Sejong University, <sup>2</sup>Department of Nanotechnology &amp; Advanced Materials Engineering and Graphene Research Institute, Sejong University</i>
<b>FE1-I-5</b> 10:15-10:30	<b>Effect of Resistor-type Gas Sensor Scaling on Sensing and Low frequency Noise Characteristics</b> Wonjun Shin, Gyuweon Jung, Seongbin Hong, Yujeong Jeong, Jinwoo Park, Dongkyu Jang, and Jong-Ho Lee <i>School of ECE and ISRC, Seoul National University</i>