[TS06W2]

Nanomaterials and Emerging Technologies for Next Generation Sensors 1

Date & Time	July 3(Wed.), 2024 / 15:40–17:55
Place	Room 208
Session Chair(s)	Seon Joon Kim (KIST)

TS06W2_O_1   15:40–15:55

Development of Artificial Ion Receptors for Point-of-Care Testing

Seon-Jin Choi

(Hanyang University)

TS06W2_I_2   *Invited   15:55–16:25

Ultra-Low-Power and High-Performance Electronic Nose by Monolithic MicroLED-Semiconductor Metal Oxide (SMO) Gas Sensors

Inkyu Park[1], Kichul Lee[1], and Incheol Cho[2]

([1]KAIST, [2]Samsung Electronics Co., Ltd.)

TS06W2_O_3   16:25–16:40

Selective Dual Detection of Hydrogen and Ammonia using Pd-$W_{18}O_{49}$ Nanowires MEMS Chemoresistive Gas Sensors

Seon Ju Park and Ho Won Jang

(Seoul National University)

TS06W2_O_4   16:40–16:55

Palladium-Deposited Molybdenum Disulfide-Based Hydrogen Sensor using Machine Learning Technology for Environmental Adaptation

Taeha Kim, U Jin Cho, Youhyeong Jeon, and Min-Woo Kwon

(Gangneung-Wonju National University)

TS06W2_I_5   *Invited   16:55–17:25

Understanding Humidity Effects from a Surface Science Point of View – Properties of Adsorbed Water Layer and Sensor Responses

Seong H. Kim

(Pennsylvania State University)

| TS06W2_O_6 | 17:25–17:40 |

Functionalization of Single-Atom Catalysts on Conductive Metal-Organic Frameworks for Highly Reversible NO$_2$ Sensing

Chungseong Park, Hamin Shin, Mingyu Jeon, and Il-Doo Kim

(KAIST)

| TS06W2_O_7 | 17:40–17:55 |

Robust Chemiresistive Behavior in Conducting Metal-Organic Frameworks Based Composites

Dong-Ha Kim

(Hanyang University)

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