[TS06F7]

Nanomaterials and Emerging Technologies for Next Generation Sensors 5

Date & Time	July 5(Fri.), 2024 / 14:00-16:30
Place	Room 208
Session Chair(s)	Chan Ho Park (Gachon Univ.)

14:00-14:15 TS06F7_O_1

Surface Functionalization of Graphene for Selective and Flexible Chemical Sensor

Seungsoo Kim¹ and Ho Won Jang^{1,2}

(1 Seoul National University, 2 Advanced Institute of Convergence Technology)

TS06F7 O 2 14:15-14:30

Electrochemically Chlorinated Graphene for Ultrafast NO2 Detection at Room Temperature

Jaeyeon Oh¹, Sungjin Cho¹, Ansoon Kim¹, Woo Lee¹, Seongpil An², and Yeonhoo Kim¹ (1KRISS, 2Sungkyunkwan University)

14:30-14:45 TS06F7_O_3

Investigation of Improved NO2 Sensing Property of Substitutional Transition Metal-Doped Molybdenum Disulfide based on In-situ Raman Analysis

Jae-Woo Seo, Ga-Yeon Baek, Seung-Ho Choi, Yeon-Joo kim, and Seon-Jin Choi (Hanyang University)

14:45-15:00 TS06F7_O_4

MWCNT-MOF Composites Functionalized with Schiff Base Derivatives for Selective Detection of Heavy Metal Ion

Yeon-Joo Kim, Seung-Ho Choi, Jae-Woo Seo, Ga-Yeon Baek, and Seon-Jin Choi (Hanyang University)

TS06F7 O 5 15:00-15:15

Metalloporphyrin-Functionalized Polymer-SWCNT Composites: Effect of Metal Chelation on NO2 Sensing Properties

Ga-Yeon Baek, Seung-Ho Choi, Jae-Woo Seo, Yeon-Joo Kim, and Seon-Jin Choi (Hanyang University)

TS06F7_O_6 15:15-15:30

Metal-Center Effect of Metalloporphyrin-Based Selectors on Chemiresistive Heavy Metal Ion Sensing Seung-Ho Choi, Jae-Woo Seo, Yeon-Joo Kim, Ga-Yeon Baek, and Seon-Jin Choi (Hanyang University)

TS06F7_O_7 15:30-15:45

Exclusive and Ultrasensitive Detection of H_2S at Low Temperature using MOF/SnS $_2$ Heterostructure Soo Min Lee and Ho Won Jang

(Seoul National University)

TS06F7_O_8 15:45-16:00

Room Temperature Operation of CO₂ Gas Sensor based on Ca & Al Co-Doped ZnO

Eunjin Kim¹, Daewoong Jung², Gil Sik Lee¹, and Jeong Bong Lee³ (¹University of Texas at Dallas, ²KITECH, ³Baylor University)

TS06F7_O_9 16:00-16:15

V₂O₅ Humidity Sensor for Wide Range Humidity Detection

Sung Jin Cho^{1,2}, Jae Yeon Oh¹, Hyun Ho Kim³, and Yeon Hoo Kim^{1,2} (¹KRISS, ²UST, ³Kumho National Institute of Technology)

TS06F7_O_10 16:15-16:30

Unveiling the Potential of MAPbI₃-PVDF Composite Films for Self Powered Pressure and Broadband Light-Sensing Applications

Venkatraju Jella, Swathi Ippili, and Soon-Gil Yoon

(Chungnam National University)