[MB1] B. Gas Sensors (Materials & Sensing Mechanisms)-1	
Session Date	November 09 (Mon.), 2026
Session Time	13:00-14:25
Session Room	Room B (Conference Room 515)
Session Chairs	Prof. Seon-Jin Choi (Hanyang University), Prof. Taro Ueda (Nagasaki University)

[MB1-1] [Invited] **13:00-13:25**

Semiconductor Gas Sensor Materials for Selective Detection of Volatile Organic Compounds: From Materials Design to Sensing Mechanisms

Tetsuya Kida

Kumamoto University, Japan

[MB1-2] **13:25-13:40**

Selectivity in Chemiresistive Gas Sensing: From Chemical Criteria to Rational Materials Design

Wu Wang and Fan Dong

University of Electronic Science and Technology of China, China

[MB1-3] **13:40-13:55**

Ultrasensitive ppt-Level NO_2 MEMS Sensors Based on Au-Sensitized SnO_2/Graphitized-Nanodiamond Heterojunctions

Jiusheng Cai, Xishuang Liang, and Geyu Lu

Jilin University, China

[MB1-4] **13:55-14:10**

Tunable Metal Organic Chalcogenolates Semiconductors for Selective Room-Temperature NO_2 Gas Sensing

Pimpan Leangtanom[1], Achawee Dangkongko[1], Viruntachar Kruefu[2], and Watcharaphol Paritmongkol[1]

[1]Vidyasirimedhi Institute of Science and Technology, Thailand, [2]Maejo University, Thailand

[MB1-5] **14:10-14:25**

Controlling Ni Distribution in PdNi Nanoalloys Decorated onto ZnO for Rapid and Robust ppb-Level H_2S Sensing

Kang Yang, Fengmin Liu, and Geyu Lu

Jilin University, China