[MC1] C. Gas Sensors (Devices & System Application)-1	
Session Date	November 09 (Mon.), 2026
Session Time	13:00-14:25
Session Room	Room C (Conference Room 516)
Session Chairs	Prof. Hua-Yao Li (Huazhong University of Science and Technology), Prof. Takeo Hyodo (Nagasaki University)

[MC1-1] [Invited] **13:00-13:25**

Smart Environmental Monitoring by Low-Power and Self-Powered Gas Sensors and Artificial Intelligence

Inkyu Park

Korea Advanced Institute of Science and Technology, Korea

[MC1-2] **13:25-13:40**

Ferroelectric Transistors based on α-In_2Se_3 for Bionic Olfaction

Yaxin Liang, Xinyi Chen, Peng Yu, Hua-Yao Li, and Huan Liu

Huazhong University of Science and Technology, China

[MC1-3] **13:40-13:55**

Acoustic–Olfactory Gas Sensing Using Receptor-Coated Microphones

Tanju Yildirim[1], Meng-Qun Feng[1], Thuc Anh Ngo[2], Kosuke Minami[1], Kota Shiba[1], and Genki Yoshikawa[1,2]

[1]National Institute for Materials Science, Japan, [2]University of Tsukuba, Japan

[MC1-4] **13:55-14:10**

AI-Enhanced Low-Power Gas Sensor System for Addressing Measurement Challenges of Dynamic Range in Portable Applications

Soo-Bin Yang, Hyun-Woo Jin, Min-Gyeong Song, Hyun-Woo Jung, and Hyeon-June Kim

Seoul National University of Science and Technology, Korea

[MC1-5] **14:10-14:25**

Inverted Type Gas Sensor based on AAO Architecture for Enhanced Gas Selectivity

Tongchao Wang, Chen Wang, Peng Sun, and Geyu Lu

Jilin University, China