[MC2] C. Gas Sensors (Devices & System Application)-2	
Session Date	November 09 (Mon.), 2026
Session Time	14:40-16:20
Session Room	Room C (Conference Room 516)
Session Chairs	Prof. Ji-Wook Yoon (Jeonbuk National University), Prof. Inkyu Park (Korea Advanced Institute of Science and Technology)

[MC2-1] [Invited] **14:40-15:05**

From FET Gas Sensors to Intelligent Machine Olfaction Microsystems

Hua-Yao Li, Huanhuan Zhang, Yan Bai, Sha Zhang, and Huan Liu

Huazhong University of Science and Technology, China

[MC2-2] **15:05-15:20**

Sensitive and Accurate Gas Sensing Enabled by Electrical Modulation

Jianxin Yi and Siyu Wu

University of Science and Technology of China, China

[MC2-3] **15:20-15:35**

Research on Infrared Methane Sensing based on Metasurface-Enhanced Lead Selenide Detectors

Xingwang Ao, Peng Chen, Jiayi Wang, Ren Sun, Ning Gan, Huayao Li, and Huan Liu

Huazhong University of Science and Technology, China

[MC2-4] **15:35-15:50**

Interfacial Engineering and Machine Learning for High-Performance 2D Material-Quantum Dot Gas Sensors

Utkarsh Kumar[1], Kuang Yao Lo[2], and Chiu-Hsien Wu[1]

[1]National Chung Hsing University, Taiwan, [2]National Cheng Kung University, Taiwan

[MC2-5] **15:50-16:05**

A Multi-Contact Electrode Architecture for High-Dimensional Gas Sensing

Xinmu Zhang and Jianxin Yi

University of Science and Technology of China, China

[MC2-6] **16:05-16:20**

MOSFET-Based Gas Sensors for Trace Level NO_2 Detection Enabled by Capacitive Coupling Effect

Huanhuan Zhang, Yan Bai, Hua-Yao Li, and Huan Liu

Huazhong University of Science and Technology, China