

[TC3] C. Gas sensors (Devices & System application)-5	
Session Date	November 10 (Tue.), 2026
Session Time	15:45-17:25
Session Room	Room C (Conference Room 516)
Session Chair(s)	Prof. Soohwan Jang (Dankook University), Prof. Chen Wang (Jilin University)

[TC3-1] [Invited] 15:45-16:10

Electrically Conductive MOF-Based Gas Sensors: Recent Advances, Mechanistic Insights, and Future Prospects

Young-Moo Jo

Kyungpook National University, Korea

[TC3-2] 16:10-16:25

Construction of Hierarchical Ca-HHTP/CaFe-LDH Composites for Selective and Enhanced H₂S Detection at Room-Temperature

Yongjiao Sun¹, Wenyan Zhao¹, Junxiang Liu¹, Koichi Suematsu², Kengo Shimano¹, and Jie Hu¹

¹Taiyuan University of Technology, China, ²Kyushu University, Japan

[TC3-3] 16:25-16:40

Ag Incorporated NiO/ZnO Heterostructure Films for Ammonia Gas Sensing

Upesh Kumar Appikonda and Paramesh Gadige

Sri Sathya Sai Institute of Higher Learning, India

[TC3-4] 16:40-16:55

Wide-Temperature-Range Acetone Sensing based on an AlGaIn/GaN HEMT with Bismuth Ferrite Gate Sensing Layer

Chenming Yang, Xinyi Chen, Haowen Li, Hua-Yao Li, and Huan Liu

Huazhong University of Science and Technology, China

[TC3-5] 16:55-17:10

Hybrid Nanostructured Materials for High-Performance Hydrogen and Ammonia Gas Sensors toward Safety Monitoring

Tran Tung, Md A Jalil, Anh T T Tran, and Dusan Losic

Adelaide University, Australia

[TC3-6] 17:10-17:25

Structural Engineering of Indium Oxide for Formaldehyde Gas Recognition

Yan Liu^{1,2}, Jiuyu Li¹, Zhenyang Zhang¹, Zhengxu Jiao¹, Guoli Liu¹, Yuxuan Du¹, Bailing Li¹, and Jianping Du¹

¹Taiyuan University of Technology, China, ²Shanxi Institute of Energy, China