[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 Chairs	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 H_2S Detection at Room-Temperature

Yongjiao Sun[1], Wenyuan Zhao[1], Junxiang Liu[1], Koichi Suematsu[2], Kengo Shimanoe[1], and Jie Hu[1]

[1]Taiyuan University of Technology, China, [2]Kyushu 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 AlGaN/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 Li[1], Zhenyang Zhang[1], Zhengxu Jiao[1], Guoli Liu[1], Yuxuan Du[1], Bailing Li[1], and Jianping Du[1]

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