[TB3] B. Gas Sensors (Materials & Sensing Mechanisms)-5

Session Date	November 10 (Tue.), 2026
Session Time	15:45-17:10
Session Room	Room B (Conference Room 515)
Session Chairs	Prof. Jun Min Suh (Seoul National University), Prof. Tianshuang Wang (Jilin University)

[TB3-1] [Invited] **15:45-16:10**

Spatial Atomic Layer Deposition of Metal Oxide Nanofilm and Noble Metal Catalysts for Gas-Sensing Applications

Nguyen Van Hieu, Nguyen Viet Chien, Phan Hong Phuoc, Nguyen Ngoc Viet, Nguyen Viet Huong, and Bui Van Hao

Phenikaa University, Vietnam

[TB3-2] **16:10-16:25**

Lattice-Oxygen-Mediated Gas Sensing under Oxygen-Free Conditions in $YMnO_3$

Nan Ma[1], Mao Huang[1,2], Nan Meng[1,2], Chuying Yu[2], Kengo Shimanoe[3], and Alexey Vasiliev[4]

[1]Shanghai Institute of Ceramics, Chinese Academy of Sciences, China, [2]Hunan University, China, [3]Kyushu University, Japan, [4]Dubna State University, Russia

[TB3-3] **16:25-16:40**

Engineering a Quantum Dot/Binder Sensor for Room-Temperature Selective Ethyl Acetate Detection

Lanpeng Guo, Liuyanlin Zhang, Yuxin Peng, Wenjian Zhang, Hegeng Li, Hua-Yao Li, Houjin Zhang, and Huan Liu

Huazhong University of Science and Technology, China

[TB3-4] **16:40-16:55**

Light-Assisted Chemiresistive and Photoluminescence Gas Sensing in Nanostructured Oxides

Jaroslav Otta[1,2], Tea Avarmaa[1], Raivis Eglītis[3], Valter Kiisk[1], Martin Hruška[2], Michal Novotný[2], Martin Vrňata[2], Andris Šutka[3], and Raivo Jaaniso[1]

[1] University of Tartu, Estonia, [2] University of Chemistry and Technology, Prague, Czechia, [3] Riga Technical University, Latvia

[TB3-5] **16:55-17:10**

Interfacial Hydrogen Spillover on Au/Mn-In_2O_3 with Oxygen Vacancies Boosts Hydrogen Sensing with Ultrafast Response

Yongjie Zhang[1], Hong Zhang[1], Xi Wang[2], Yanfeng Sun[1], and Geyu Lu[1]

[1]Jilin University, China, [2]Jiangsu University of Technology, China