

[TB2] B. Gas sensors (Materials & Sensing Mechanisms)-4	
Session Date	November 10 (Tue.), 2026
Session Time	13:30-15:00
Session Room	Room B (Conference Room 515)
Session Chair(s)	Prof. Koich Suematsu (Kyushu University), Prof. Young-Seok Shim (Korea University of Technology and Education)

[TB2-1] 13:30-13:45

Interfacial Engineering Enables Fast Hydrogen Detection

Neeraj Dhariwal¹, Tatsuki Tsugawa¹, Taro Ueda¹, Takeo Hyodo¹, Preeti Yadav², and Vinod Kumar²

¹Nagasaki University, Japan, ²Netaji Subhas University of Technology, India

[TB2-2] 13:45-14:00

Light-Activated VOC Gas Sensors Using Doped Metal Oxides

Papitchaya Khunjan, Soki Yoneda, Muhammad Fadil, Varisara Phuaran, Yusuke Inomata, and Tetsuya Kida

Kumamoto University, Japan

[TB2-3] 14:00-14:15

UV-Assisted Au–ZnO Gas Sensor for Room-Temperature Ethylene Detection

Siwaporn Khemphet¹, Tanakorn Osotchan², and Rawat Jaisutti¹

¹Thammasat University, Thailand, ²Mahidol University, Thailand

[TB2-4] 14:15-14:30

Pt–WO₃ Interfaces Promote Near-Surface Lattice-Oxygen Redox for Enhanced Ethanol Sensing

Soki Yoneda¹, Muhammad Sohail Ahmad¹, Yusuke Inomata¹, and Tetsuya Kida^{1,2}

¹Kumamoto University, Japan, ²Chulalongkorn University, Thailand

[TB2-5] 14:30-14:45

Au Nanoparticle-Functionalized Zn/Co Bimetallic Oxide Hollow Dodecahedra Derived from Zeolitic Imidazolate Framework for Trace N-Butanol Detection

Junxiang Liu, Ranjun Li, Pengcheng Li, Yongjiao Sun, and Jie Hu

Taiyuan University of Technology, China

[TB2-6] 14:45-15:00

Crystallographic Facet-Controlled NiO Nanostructures via HT-GLAD for Enhanced Gas Sensing Performance

Eunsol Lee, Jae Han Chung, and Young-Seok Shim

Korea University of Technology and Education, Korea