[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 Chairs	Prof. Young-Seok Shim (Korea University of Technology and Education), Prof. Koichi Suematsu (Kyushu University)

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

Interfacial Engineering Enables Fast Hydrogen Detection

Neeraj Dhariwal[1], Tatsuki Tsugawa[1], Taro Ueda[1], Takeo Hyodo[1], Preety Yadav[2], and Vinod Kumar[2]

[1]Nagasaki University, Japan, [2]Netaji 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 Khemphet[1], Tanakorn Osotchan[2], and Rawat Jaisutti[1]

[1]Thammasat University, Thailand, [2]Mahidol University, Thailand

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

Pt-WO_3 Interfaces Promote Near-Surface Lattice-Oxygen Redox for Enhanced Ethanol Sensing

Soki Yoneda[1], Muhammad Sohail Ahmad[1], Yusuke Inomata[1], and Tetsuya Kida[1,2]

[1]Kumamoto University, Japan, [2]Chulalongkorn 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