

[TB1] B. Gas sensors (Materials & Sensing Mechanisms)-3	
Session Date	November 10 (Tue.), 2026
Session Time	10:40-12:20
Session Room	Room B (Conference Room 515)
Session Chair(s)	Prof. Ammar Zakaria (Universiti Malaysia Perlis), Prof. Seong-Yong Jeong (Jeonbuk National Univeristy)

[TB1-1] [Invited] 10:40-11:05

Wearable Gas Sensors based on Conductive Metal-Organic Frameworks

Tianshuang Wang

Jilin University, China

[TB1-2] 11:05-11:20

Humidity-Dependent VOC Sensing Mechanism of SnO₂ Nanorods

Koichi Suematsu¹, Tobias Köninger², Udo Weimar², and Nicolae Barsan²

¹Kyushu University, Japan, ²University of Tübingen, Germany

[TB1-3] 11:20-11:35

The Enhancing Effect of Two-Dimensional Ultrathin Pd Metallene in Gas Sensing

Ziyu Liu, Tianrun Zheng, Fengmin Liu, and Geyu Lu

Jilin University, China

[TB1-4] 11:35-11:50

Hybrid Polymer–Clay Hydrogels with Tunable Ionic Conduction for Highly Selective Room-Temperature Gas Sensing

Tanay Saha and Paramesh Gadige

Sri Sathya Sai Institute of Higher Learning, India

[TB1-5] 11:50-12:05

Anisotropic Growth of Vertically Aligned Quasi-2D SnO Nanoflakes via High-Temperature Glancing Angle Deposition for High-Performance Gas Sensing

Jae Han Chung, Do Yeong An, Seungbeom Jeong, Yun-Gyu Lee, Seong Been Yun, Eunsol Lee, and Young-Seok Shim

Korea University of Technology and Education, Korea

[TB1-6] 12:05-12:20

Multidimensional Tuning of Nanoalloy-Sensitized Oxide Gas Sensors: From Spatial Distribution to Compositional Optimization

Fengmin Liu and Geyu Lu

Jilin University, China