

9th GOSPEL Workshop. Gas sensors based on semiconducting metal oxides: novel materials & mechanism analyses & application fields

Monday, 5 August 2024

Day I, Session II: Chair: Prof. Ho Won Jang (Seoul National University, Korea), Prof. Tetsuya Kida (Kumamoto University, Japan) (13:00 - 18:25)

time	[id] title	presenter
13:00	[143] Operando spectroscopic analysis of the gas detection mechanism of noble metal-decorated metal oxides	KIDA, Tetsuya
13:25	[144] Synergistic Etching and Hydrogen Bonding Induced Self-assembly of MXene/MOF Hybrid Aerogel for Flexible Room Temperature Gas Sensing	LIU, Zhuo
13:40	[145] Surface Defects-Induced Specific Catalysis Activates 100% Selective Sensing towards Amine Gases at Room Temperature	WANG, Wu
13:55	[146] Development of a Sensor Array for NonInvasive Detection of Exhaled Volatile Organic Compounds in Respiratory Diseases	HU, Jiangxue
14:10	[147] An on-chip MOS array for malodorous gas recognition enabled by optimization strategy	JIANG, Yiwei
14:25	[148] Bimetallic Pd, Ce oxide modified SnO ₂ for low-temperature carbon monoxide sensing	LI, Mengmeng
14:40	[149] Optimization of the PILs-based humidity sensor's response /recovery characteristics	YU, Yunlong
14:55	[150] Nanoscale MOF-74-based QCM gas sensor for CO ₂ detection at room temperature	WANG, Xukun
15:10	Coffee Break	
15:30	[151] Metal-oxide gas sensors: current advances in science and technology to meet challenges	FABBRI, Barbara
15:55	[152] Chemical sensor array using 2D materials	JANG, Ho Won
16:10	[153] Gas-sensing properties of WS ₂ /WO ₃ hybrids	LLOBET, Eduard
16:25	[154] Preparation and NO ₂ sensing performance of WO ₃ based gas sensing materials	ZHENG, Qiuyue
16:40	[155] Coordination Polymers derived waxberrylike CuO and flower sphere-like Cu ₂ O/CuO: low-power Cl ₂ sensing	LI, Ting
16:55	[156] A systematic study on gas selectivity of a room temperature-operated gas sensor based on TiO ₂ burr-like nanorods	FANG, Xu
17:10	[196] Thin-film transistor gas sensors employing chalcogenide semiconductor hetero-junction	TANG, Yanting
17:25	[158] Construction of hierarchical In ₂ O ₃ /In ₂ S ₃ microsphere heterostructures for TEA detection	ZHANG, Yongjie
17:40	[159] Ultrasensitive Flexible Temperature Sensors Based on Thermal-Mediated Ions Migration Dynamics in Asymmetrical Polymer Bilayers	LI, Fan

17:55	[157] Y-doped spongy like zinc oxide achieves photoexcitation for room temperature detection of NO ₂
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ZHENG, Tianrun
