

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

Monday, 5 August 2024

Day I, Session I: Chair: Prof. Jing Wei (Xi'an Jiaotong University, China), Prof. Fengmin Liu (Jilin University, China)

(13:00 - 18:25)

time	[id] title	presenter
13:00	[126] Portable sensing platforms, based on solid state gas sensors, for outdoor air quality monitoring: a multi-level and iterative approach for development, deployment and calibration	GAIARDO, Andrea
13:25	[127] Single-atom copper-doped zinc stannate-based hydrogen sulfide sensor prepared by MOF derivatization method	LI, Siqi
13:40	[128] MOS acetone sensors with hot wire type structure	SARUMARU, Eri
13:55	[129] Cu(II) coordination MOF-303 based dual- functional sensor for precisely detecting and distinguishing humidity and temperature with multifunction applications	WU, Ke
14:10	[130] Highly sensitive and moisture-resistant gas sensor with Sn doping on rod Pt/CeO ₂ for n- butanol detection	WANG, Zhen
14:25	[131] A pulsed detection method for Pt-doped In ₂ O ₃ field effect H ₂ sensors	WU, Meile
14:40	[132] MOX Sensors on MEMS platform- a way for the selective detection of hydrogen containing gases	VASILIEV, Alexey
14:55	[133] Ferroelectric polarization induced fast response of ABO ₃ humidity sensor	MA, Nan
15:10	Coffee Break	
15:30	[134] Exploring gas sensing mechanism of metal oxides using cutting-edge in situ characterization techniques	XU, Pengcheng
15:55	[135] The MOX Sensor Modification for Real Condition of Work Based on Experience Using One in Gas Leakage Detector	SAMOTAEV, Nikolay
16:10	[136] Self-template synthesis of mesoporous metal oxide spheres for enhanced gas sensing performance	WEI, Jing
16:25	[137] Gas sensor array based on ZnO-Au-SnO ₂ : Synthesis and device application for mixture classification	JIAO, Mingzhi
16:40	[138] Flexible, Wearable, room-temperature NO ₂ gas sensor based on MoS ₂ /ZnS	XU, Yiyang
16:55	[204] Electronic nose utilizing low-dimensional nanomaterials and its applications in exhaled breath analysis	LI, Hua-Yao
17:10	[140] Highly sensitive and stable low humidity sensors based on polymeric ionic liquid and polybenzimidazole composites	SONG, Yaping
17:25	[168] Microwave Split Ring Resonator (SRR) Sensor Based on Multilayered Ti ₃ C ₂ T _x Mxene for Room Temperature ppb-Level Nitrogen Dioxide Sensing	YANG, Xianwang

17:40	[139] Effect of heterogenous dopant and high temperature pulse excitation on ozone sensing behavior of In ₂ O ₃ nano-structures and an image recognition method coupled to ozone sensing Array	SUI, Ning
17:55	[142] Highly selective gas sensor for rapid detection of triethylamine using PdRu alloy nanoparticles functionalized SnO ₂	WANG, Yilin