Poster Session 1: Monday, 21.05.2012, 15.30 h – 17.00 h

Paper ID: 10-656, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
Huiming Ji, School of Materials Science and Engineering of Tianjin University, China
Porous WO3-NiO thin films prepared by sol-gel method for selective acetone gas detection

Paper ID: 10-662, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
Shinji Nakagomi, Ishinomaki Senshu University, Japan
Hydrogen gas sensor based on ß-Ga2O3 thin film with a function of self temperature compensation

Paper ID: 10-668, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
Sukon Phanichphant, Chiang Mai University, Thailand
Pt-loaded WO3 thick films for NO2 gas sensing

Paper ID: 10-671, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
Divya Haridas, University of Delhi, India
Enhanced room temperature response of SnO2 thin film sensor loaded with Pd catalyst clusters under UV radiation for methane

Paper ID: 10-672, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
Richa Srivastava, University of Lucknow, India
Comparative humidity sensing based on Fe2O3 synthesized via different methods

Paper ID: 10-706, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
Tomohisa Tasaki, Kyushu Institute of Technology (KIT), Japan
Impedancemetric hydrocarbon sensor using Sm-Fe-based perovskite-type oxide thick-film

Paper ID: 10-755, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
Takeo Hyodo, Nagasaki University, Japan
Preparation of porous In2O3 powders by ultrasonic-spray pyrolysis employing PMMA microspheres synthesized by emulsion polymerization and their gas-sensing properties

Paper ID: 10-760, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
G. Sarala Devi, Indian Institute of Chemical Technology IICT, India
Zn2SnO4: a suitable material for liquid petroleum gas (LPG) detection

Paper ID: 10-763, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
Cesare Malagù, University of Ferrara, Italy
Spectroscopic and electrical evidence of transition to nanostructured behaviour in SnO2

Paper ID: 10-764, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
Alessio Giberti, University of Ferrara, Italy
Evidence of a surface effect of UV light on WO3 thick-film gas sensors

Paper ID: 10-774, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
Hamide M. Aliha, University of Tehran, Iran
The sensing behavior of semiconductor metal oxides based on SnO2 thick film for detection of chlorinated VOCs in low concentration

Paper ID: 10-782, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
Zoltan Nemeth, Yerevan State University (YSU), Armenia
Influence of applied voltage and catalyst layer thickness on SnO2 hydrogen sensor performance

Paper ID: 10-791, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
Manish Kumar Verma, University of Delhi, India
Highly sensitive ZnO-SnO2 composite H2 gas sensor

Paper ID: 10-804, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
Ravi Mohan Prasad, Technische Universität Darmstadt, Germany
Inkjet printed In2O3 and In2O3/CNT hybrid microstructures for future gas sensing application

Paper ID: 10-811, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
Ikram Ul Haq, University of Peshawar, Pakistan
Fabrication of ZnO-based room temperature ammonia gas sensor

Paper ID: 10-812, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
Abdelhamid Boudiba, University of Mons, Belgium
Sensing mechanism of hydrogen sensors based on Pd loaded tungsten oxide (Pd-WO3)

Paper ID: 10-843, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
Isabella Concina, University of Brescia, Italy
Influence on gas sensing performances of CdS quantum dots deposited on WO3 thin film

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Paper ID: 10-845, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
Amir Amini, Islamic Azad University, Iran
Fusing the diagnostic information provided by a gas sensor temperature-modulated with different power waveforms

Paper ID: 10-872, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
Mahnaz Shafiei, QUT University, Australia
Hydrogen sensing properties of Pt/lanthanum oxide-molybdenum oxide nanoplatelet/SiC based Schottky diode

Paper ID: 10-874, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
Ooi Kiang Tan, Nanyang Technological University, Singapore
n- to p-type transition sensing response of strontium titanate ferrite sol-gel thin films

Paper ID: 10-923, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
Amalia Berna, CSIRO Food Futures Flagship and Ecosystem Sciences, Australia
Optimal feature selection for classifying a large set of chemicals using metal oxide sensors

Paper ID: 10-930, Poster Session 1, Topic: 0 - Metal Oxide-based Sensors
Seung Eon Moon, Electronics & Telecommunications, Korea
Low power consumption micro C2H5OH gas sensor based on micro-heater and screen printing technology

Paper ID: 10-651, Poster Session 1, Topic: 1 - Biosensors
Vinod Kumar Gupta, Indian Institute of Technology, India
Voltammetric biosensors for the determination of paracetamol at carbon nanotube modified pyrolytic graphite electrode

Paper ID: 10-652, Poster Session 1, Topic: 1 - Biosensors
Venkataraman Dharuman, Alagappa University, India
Development of efficient and reliable label free electrochemical DNA hybridization sensing by constructing multi component thiol self assemblies on gold transducers and characterization

Paper ID: 10-685, Poster Session 1, Topic: 1 - Biosensors
Rajalingam Sivacoumar, Vellore Institute of Technology, India
Tapered optical fiber biosensor for testosterone detection

Paper ID: 10-688, Poster Session 1, Topic: 1 - Biosensors
Huiling Tai, University of Electronic Science and Technology of China (UESTC), China
Phthalocyanine organic thin film transistors for the detection of dimethyl methyl phosphonate (DMMP)

Paper ID: 10-692, Poster Session 1, Topic: 1 - Biosensors
Yasuo Yoshimi, Shibaura Institute of Technology, Japan
A real-time heparin sensor using a gate effect of molecularly imprinted polymer

Paper ID: 10-698, Poster Session 1, Topic: 1 - Biosensors
Dou Fuyin, Tsinghua University, China
Flow chamber for living cell detection by SPR

Paper ID: 10-702, Poster Session 1, Topic: 1 - Biosensors
Fred Lisdat, Technische Hochschule Wildau (FH), Germany
Fast detection of pathogenic bacteria by using different sensor techniques

Paper ID: 10-739, Poster Session 1, Topic: 1 - Biosensors
Fred Lisdat, Technische Hochschule Wildau (FH), Germany
Quantum dot electrode for light-controlled biosensors

Paper ID: 10-744, Poster Session 1, Topic: 1 - Biosensors
Qi Zheng, Shanghai University, China
Impacts of meso-structure and organic loadings of fluoroalcohol derivatives/SBA-15 hybrids on nerve agent simulant sensing

Paper ID: 10-747, Poster Session 1, Topic: 1 - Biosensors
Betiana Lerner, Grupo MEMS, Argentina
Mobility study of DNA covalently linked to different fluorophores in PDMS microchannels

Paper ID: 10-801, Poster Session 1, Topic: 1 - Biosensors
Yaping Ding, Shanghai University, China
Determination of L-tryptophan in the presence of ascorbic acid and dopamine using poly (sulfosalicylic acid) modified glassy carbon electrode

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Paper ID: 10-802, Poster Session 1, Topic: 1 - Biosensors
Liqiang Luo, Shanghai University, China
Electrochemical sensing platform of natural estrogens based on the poly (L-proline)-ordered mesoporous carbon composite modified glassy carbon electrode

Paper ID: 10-807, Poster Session 1, Topic: 1 - Biosensors
Fred Lisdat, Technische Hochschule Wildau (FH), Germany
Thin films of substituted polyanilines: interactions with biomolecular systems

Paper ID: 10-868, Poster Session 1, Topic: 1 - Biosensors
Ali Zazoua, University of Jijel, Algeria
Development and electrochemical characterizations of a biosensor based on semiconducting silicon structures transduction

Paper ID: 10-870, Poster Session 1, Topic: 1 - Biosensors
Min Wang, Zhejiang University, China
Optimization of nanostructure size on PDMS surface to improve cell interaction

Paper ID: 10-884, Poster Session 1, Topic: 1 - Biosensors
Constantin Apetrei, University of Galati, Romania
Development of amperometric biosensor based on tyrosinase immobilized in phosphate-doped polypyrrole film for detection of biogenic amines

Paper ID: 10-898, Poster Session 1, Topic: 1 - Biosensors
Zirong Tang, Huazhong University of Science and Technology, China
Integration of carbon nanotubes to three-dimensional C-MEMS for glucose sensors

Paper ID: 10-903, Poster Session 1, Topic: 1 - Biosensors
Tanveer Ahamd Mir, University of Toyama, Japan
Real-time monitoring of cell response to drug stimulation by 2D-SPR sensor: an approach to study neuronal differentiation

Paper ID: 10-908, Poster Session 1, Topic: 1 - Biosensors
Yadollah Mortazavi, University of Tehran, Iran
Enzymeless glucose biosensor using CuO nanoparticles on amine-functionalized carbon nanotubes

Paper ID: 10-951, Poster Session 1, Topic: 1 - Biosensors
Thibaut Sizun, Université de Bourgogne, France
Effect of humidity on ammonia sensing by molecular materials

Paper ID: 10-955, Poster Session 1, Topic: 1 - Biosensors
Di Wang, Zhejiang University, China
Odor discrimination by mitral cells in rat olfactory bulb using microwire array recording

Paper ID: 10-970, Poster Session 1, Topic: 1 - Biosensors
Min Wang, Zhejiang University, China
Chitosan modified gold film microelectrode for the determination of iodide

Paper ID: 10-983, Poster Session 1, Topic: 1 - Biosensors
Nikolaj F. Starodub, National University of Life and Environmental Sciences, Ukraine
Cerium oxide ISFET based immune biosensor for control of bacterial contamination

Paper ID: 10-984, Poster Session 1, Topic: 1 - Biosensors
Nikolaj F. Starodub, National University of Life and Environmental Sciences, Ukraine
Efficiency of immune biosensor based on total internal reflection ellipsometry at the determination of Salmonella

Paper ID: 10-734, Poster Session 1, Topic: 2 - Resonant Sensors
Si-Hong Hoang, University of Ulsan, Korea
SAW humidity sensor based on ZnO/AlN/Si structures using ZnO nanorods

Paper ID: 10-751, Poster Session 1, Topic: 2 - Resonant Sensors
Silja Schmidtchen, Technische Universität Clausthal, Germany
Variation of the vibration profile of piezoelectric resonant sensors with different electrode conductivity at high temperatures

Paper ID: 10-771, Poster Session 1, Topic: 2 - Resonant Sensors
Daniel Matatagui, Instituto de Fisica Aplicada, CSIC, Spain
Development of a Love-wave immunosensor with microfluidic technology to detect phages in dynamic mode

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Paper ID: 10-797, Poster Session 1, Topic: 2 - Resonant Sensors
V. Bhasker Raj, University of Delhi, India
Efficient detection of ammonia using SAW devices coated with oxide sensing layers

Paper ID: 10-822, Poster Session 1, Topic: 2 - Resonant Sensors
Ali Jasim Mohammed, Al-Mustansiriya University, Iraq
Piezosensors for monitoring degradation of automotive engine oil

Paper ID: 10-851, Poster Session 1, Topic: 2 - Resonant Sensors
M. Brutschy, Johannes Gutenberg-Universität Mainz, Germany
Effect of surface modification on the analyte adsorption of quartz crystal microbalances

Paper ID: 10-920, Poster Session 1, Topic: 2 - Resonant Sensors
Dongxiang Zhou, Huazhong University of Science and Technology, China
Influence of zinc oxide films structure on biological protein adsorption for SAW biosensors

Paper ID: 10-922, Poster Session 1, Topic: 2 - Resonant Sensors
Lucat Claude, University of Bordeaux, France
Screen-printed PZT cantilevers coated with PEUT for toluene detection. Comparison with silicon cantilevers

Paper ID: 10-942, Poster Session 1, Topic: 2 - Resonant Sensors
Stephan Merzsch, Technische Universität Braunschweig, Germany
Recycling of cantilevers for nanoparticle detection by lift-off technique

Paper ID: 10-972, Poster Session 1, Topic: 2 - Resonant Sensors
Xing Chen, State Key Laboratory of Transducer Technology, China
An integrated electrophoresis microchip for label-free detection using surface plasmon resonance image

Paper ID: 10-976, Poster Session 1, Topic: 2 - Resonant Sensors
Helene Debeda, University of Bordeaux, France
Uncoated PZT thick film cantilever for chemical species detection in gaseous phase

Paper ID: 11-090, Poster Session 1, Topic: 2 - Resonant Sensors
Angelique Tetelin, University of Bordeaux, France
Love wave device for real-time monitoring of pollutant degradation through photocatalysis

Paper ID: 11-211, Poster Session 1, Topic: 2 - Resonant Sensors
Carlos Ruiz Zamarreno, University of Navarra Electrical and Electronic Engineering, Spain
Electrospun nanofibers fabricated on screen-printed PZT cantilevers for room temperature VOCs detection

Paper ID: 10-715, Poster Session 1, Topic: 3 - Sensors Based on Optical Techniques
Li Li, Shanghai University, China
Synthesis of Mn-doped CdTe nanoparticles and their application as fluorescence sensors

Paper ID: 10-728, Poster Session 1, Topic: 3 - Sensors Based on Optical Techniques
Milind V. Kulkarni, Centre for Materials for Electronics, India
Development of optical pH sensor using conducting polyaniline-wrapped multiwalled carbon nanotubes (PANI-MWCNT) nanocomposite

Paper ID: 10-742, Poster Session 1, Topic: 3 - Sensors Based on Optical Techniques
Yoany Rodriguez Garcia, University of Pinar del Rio, Cuba
Optical fiber pH sensor using PAA electrospun nanowebs

Paper ID: 10-779, Poster Session 1, Topic: 3 - Sensors Based on Optical Techniques
Sumit Paul, EADS Deutschland GmbH, Germany
Opto-chemical sensor system based on InGaN/GaN nanowires for detection of oxidizing gases

Paper ID: 10-800, Poster Session 1, Topic: 3 - Sensors Based on Optical Techniques
Cesar Elosua Aguado, Public University of Navarre, Spain
Europium(III) ion detection in water by a new luminescent optical fibre sensor

Paper ID: 10-824, Poster Session 1, Topic: 3 - Sensors Based on Optical Techniques
Yan Weiping, Dalian University of Technology, China
Parallel analysis of fluorescence detection on multi-channel capillary electrophoresis microchip

Paper ID: 10-864, Poster Session 1, Topic: 3 - Sensors Based on Optical Techniques
Yu-Hui Lin, National Taiwan University, Taiwan
Preparation of meso-tetra(4-pyridyl)porphyrin film for optical gas sensor

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Paper ID: 10-869, Poster Session 1, Topic: 3 - Sensors Based on Optical Techniques
Tsuyoshi Arakawa, Kinki University, Japan
Detection of protein by the use of photoluminescence for rare earth-protein-SDBS system

Paper ID: 10-880, Poster Session 1, Topic: 3 - Sensors Based on Optical Techniques
Cesar Elosua Aguado, Public University of Navarre, Spain
Detection of organic vapors by a polished single mode optical fiber sensor

Paper ID: 10-883, Poster Session 1, Topic: 3 - Sensors Based on Optical Techniques
Cesar Elosua Aguado, Public University of Navarre, Spain
Lossy mode resonance optical fiber sensor to detect organic vapors

Paper ID: 10-902, Poster Session 1, Topic: 3 - Sensors Based on Optical Techniques
Valentin A. Smyntyna, Odessa National University, Ukraine
Novel immune TiO2 photoluminescence biosenors for leucosis detection

Paper ID: 10-912, Poster Session 1, Topic: 3 - Sensors Based on Optical Techniques
Young-Sook Lee, Pukyong National University, Korea
Camera sensor based human gait analysis for ubiquitous healthcare monitoring system

Paper ID: 10-916, Poster Session 1, Topic: 3 - Sensors Based on Optical Techniques
Mohammed M. Shabat, Islamic University of Gaza, Palestine
Slab waveguide optical sensor using negative index materials: TM case

Paper ID: 10-948, Poster Session 1, Topic: 3 - Sensors Based on Optical Techniques
Toshiaki Hattori, Toyohashi University of Technology, Japan
CCD-type multi-ion image sensor with two kinds of plasticized poly(vinyl chloride) membranes

Paper ID: 10-949, Poster Session 1, Topic: 3 - Sensors Based on Optical Techniques
Lulu Zhang, State Key Laboratory of Transducer Technology, China
A microfluidic-based PDMS prism for SPR imaging system

Paper ID: 10-973, Poster Session 1, Topic: 3 - Sensors Based on Optical Techniques
Torsten Bley, ZeMA - Zentrum für Mechatronik und, Germany
Multichannel IR sensor system for determination of oil degradation

Paper ID: 10-978, Poster Session 1, Topic: 3 - Sensors Based on Optical Techniques
Thorsten Wagner, Universität Paderborn, Germany
Mechanistic model for UV light enhanced NO2 sensing utilizing ordered mesoporous In2O3

Paper ID: 10-654, Poster Session 1, Topic: 4 - Nanostructured Sensors
Allaa Gara, Technion-Israel Institute of Technology, Israel
Morphology engineering of monolayer-capped metallic nanoparticle sensors

Paper ID: 10-676, Poster Session 1, Topic: 4 - Nanostructured Sensors
Pi-Guey Su, Chinese Culture University, Taiwan
Effect of polycations used in multi-walled carbon nanotubes thin films prepared by layer-by-layer technique on flexibility and gas sensing properties

Paper ID: 10-703, Poster Session 1, Topic: 4 - Nanostructured Sensors
Xiaogan Du, University of Electronic Science and Technology of China (UESTC), China
Humidity sensing of poly(diallyldimethylammonium chloride)/single-walled carbon nanotube composite films fabricated by self-assembly technique

Paper ID: 10-710, Poster Session 1, Topic: 4 - Nanostructured Sensors
Sahar Vahdatifar, University of Tehran, Iran
Effects of nanoadditives on the stability of chemical gas sensors

Paper ID: 10-714, Poster Session 1, Topic: 4 - Nanostructured Sensors
Aman Mahajan, Guru Nanak Dev University, India
Self-assembled phthalocyanine based nanostructures for gas sensing applications

Paper ID: 10-738, Poster Session 1, Topic: 4 - Nanostructured Sensors
Sebastian Pregl, Technische Universität Dresden, Germany
Investigations on the sensing mechanisms in silicon nanowire Schottky-barrier field effect sensors

Paper ID: 10-815, Poster Session 1, Topic: 4 - Nanostructured Sensors
Jung-Sik Kim, The University of Seoul, Korea
Sensing properties for the hydrogen micro sensor with modified palladium film

Paper ID: 10-819, Poster Session 1, Topic: 4 - Nanostructured Sensors
Sergey Krutovertsev, Joint Stock Company, Russia
Nanostructured materials application in construction of microhumidity sensors

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Paper ID: 10-854, Poster Session 1, Topic: 4 - Nanostructured Sensors
Michel O.S. Dantas, Modelagem e Ciencias Sociais Aplicadas (CECS) - UFABC, Brasil
Improvement of Si field emission sensors fabrication technology by carbon nanotubes

Paper ID: 10-941, Poster Session 1, Topic: 4 - Nanostructured Sensors
Onkar Singh, Guru Nanak Dev University, India
Aluminum doping impact on morphology and sensing response of zinc oxide nanostructures

Paper ID: 10-943, Poster Session 1, Topic: 4 - Nanostructured Sensors
Nipin Kohli, Guru Nanak Dev University, India
Fabrication of LPG sensors based upon chemically tailored sizes of chromium oxide nanoparticles

Paper ID: 10-944, Poster Session 1, Topic: 4 - Nanostructured Sensors
Alexander A. Pud, Institute of Bioorganic Chemistry and Petrochemistry of NASU, Ukraine
Synthesis of polyaniline/carbon nanotubes nanocomposites and their sensing properties to methylamine

Paper ID: 10-950, Poster Session 1, Topic: 4 - Nanostructured Sensors
Sang Hak Lee, Kyungpook National University, Korea
Determination of L-ascorbic acid by a chemiluminescence method using a metal-MWCNT immobilized microfluidic chip

Paper ID: 10-961, Poster Session 1, Topic: 4 - Nanostructured Sensors
Erdem Sennik, Gebze Institut of Technology, Turkey
Hydrogen sensing properties of doped and undoped TiO2 nanotubes

Paper ID: 10-759, Poster Session 1, Topic: 5 - FET-based Sensors
Vladimir M. Aroutiounian, Yerevan State University (YSU), Armenia
On the theory of gas sensors made of field effect transistors with one dimensional semiconductor tubes

Paper ID: 10-768, Poster Session 1, Topic: 5 - FET-based Sensors
Christina Huck, Fachhochschule Aachen, Germany
Combined amperometric/field-effect sensor for the detection of dissolved hydrogen in biogas reactors

Paper ID: 10-816, Poster Session 1, Topic: 5 - FET-based Sensors
Jung-Sik Kim, The University of Seoul, Korea
Gas sensing characteristics of low-powered dual-gate MOSFET hydrogen sensors

Paper ID: 10-841, Poster Session 1, Topic: 5 - FET-based Sensors
Sebastian Schusser, Fachhochschule Aachen, Germany
Characterization of biodegradable polymers with capacitive field-effect sensors

Paper ID: 10-844, Poster Session 1, Topic: 5 - FET-based Sensors
Chi-Chang Lin, Tunghai University, Taiwan
Study of TiO2 NWs-based FET immunosensor: effect of surface immobilization methods

Paper ID: 10-707, Poster Session 1, Topic: 6 - Electrochemical-based Sensors
Hong-Chan Cho, Kyushu Institute of Technology (KIT), Japan
Impedancemetric NOx sensor using YSZ-based solid electrolyte attached with oxide receptor

Paper ID: 10-709, Poster Session 1, Topic: 6 - Electrochemical-based Sensors
Yadollah Mortazavi, University of Tehran, Iran
Toluene and acetone detection on sensors based on YSZ electrolyte and semiconductor metal oxide nanoparticles

Paper ID: 10-725, Poster Session 1, Topic: 6 - Electrochemical-based Sensors
Masami Mori, Ehime University, Japan
Development of a potentiometric YSZ-based sensor for the detection of VOC at sub-ppm levels

Paper ID: 10-810, Poster Session 1, Topic: 6 - Electrochemical-based Sensors
Sabine Fischer, Universität Bayreuth, Germany
NOx-detection by pulsed polarization of lambda probes

Paper ID: 10-821, Poster Session 1, Topic: 6 - Electrochemical-based Sensors
Kenji Obata, Kitakyushu National College of Technology (KCT), Japan
NASICON-based CO2 sensor operative at room temperature with Li2CO3-based auxiliary as a sensing electrode

Paper ID: 10-659, Poster Session 1, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Ruixian Luo, Beijing University of Chemical Technology, China
Synthesis and sensing properties of SnO2 nanorods bundles

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Paper ID: 10-661, Poster Session 1, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Xingfu Zhou, Nanjing University of Technology, China
Fabrication and gas sensing property of ZnO versatile micro-nanostructures

Paper ID: 10-670, Poster Session 1, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Muhammad Z. Ahmad, RMIT University, Australia
Non-aqueous synthesis of In2O3 nanoparticles and its NO2 gas sensing properties

Paper ID: 10-718, Poster Session 1, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Jing Wang, Dalian University of Technology, China
Preparation of In2O3/TiO2 composite nanofibers by electrospinning and their application as a HCHO gas sensor with two operating conditions

Paper ID: 10-723, Poster Session 1, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Vladimir M. Aroutiounian, Yerevan State University (YSU), Armenia
i-Butane sensor made of SnO2/multiwall-carbon-nanotube nanocomposite

Paper ID: 10-733, Poster Session 1, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Duy-Thach Phan, University of Ulsan, Korea
CO gas sensing using Ga doping ZnO nanorods by hydrothermal method: effects of defects-controlled

Paper ID: 10-735, Poster Session 1, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Yakup Gönüllü, DLR - Deutsches Zentrum für Luft- und Raumfahrt e. V., Germany
Hydrogen sensing properties of nanotubular TiO2, Al- and Cr-doped TiO2 sensor materials

Paper ID: 10-757, Poster Session 1, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Jing Wang, Dalian University of Technology, China
Fabrication and gas sensing properties of La0.7Sr0.3FeO3 hollow nanofibers by electrospinning

Paper ID: 10-767, Poster Session 1, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Lu You, Jilin University, China
Highly sensitive NO2 sensor based on monodispersed WO3 nanoparticles

Paper ID: 10-783, Poster Session 1, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Vladimir M. Aroutiounian, Yerevan State University (YSU), Armenia
Methanol and ethanol vapor sensitivity of MWCNT/SnO2/Ru nanocomposite structures

Paper ID: 10-813, Poster Session 1, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Driss Lahem, Materia Nova, Belgium
Highly sensitive and rapid NO2 gas sensors based on ZnO nanostructures and the morphology effect on their sensing performances

Paper ID: 10-829, Poster Session 1, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Fubo Gu, Beijing University of Chemical Technology, China
Fabrication and NO2 sensing property of ZnO nanorod and nanotube arrays

Paper ID: 10-830, Poster Session 1, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Hyo-Joong Kim, Korea University, Korea
Highly sensitive C2H5OH sensors using self-assembled ZnO hierarchical nanostructures

Paper ID: 10-836, Poster Session 1, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Sotitis E. Pratsinis, ETH Zürich, Switzerland
Au nanoelectrodes below nanostructured SnO2 films for acetone detection during breath analysis

Paper ID: 10-847, Poster Session 1, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Ji-Wook Yoon, Korea University, Korea
Highly sensitive and selective C2H5OH sensor using p-type Co3O4 nanofibers

Paper ID: 10-860, Poster Session 1, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Karina Pierpauli, Grupo MEMS Comisión Nacional de Energia Atómica, Argentina
CuO nanowire sensing at room temperature

Paper ID: 10-653, Poster Session 1, Topic: 8 - Sensors Based on New Materials
Raheleh Memarzadeh, Shiraz University, Iran
Low temperature carbon monoxide sensor based on Co(salen) doped PEDOT:PSS

Paper ID: 10-683, Poster Session 1, Topic: 8 - Sensors Based on New Materials
John S. Mitchell, The New Zealand Institute for Plant &, New Zealand
Printable paper-based polymer sensors for detection of vapor phase alcohols

Paper ID: 10-729, Poster Session 1, Topic: 8 - Sensors Based on New Materials
Milind V. Kulkarni, Centre for Materials for Electronics, India
Ink-jet printed conducting polyaniline based flexible humidity sensor

Poster Session 1: Monday, 21.05.2012, 15.30 h – 17.00 h

Paper ID: 10-732, Poster Session 1, Topic: 8 - Sensors Based on New Materials
Kang-San Kim, University of Ulsan, Korea
Fabrication and characterization of hydrogen sensors using graphenes formed on the 3C-SiC thin films

Paper ID: 10-762, Poster Session 1, Topic: 8 - Sensors Based on New Materials
Christine Leroux, Universite Sud Toulon Var, France
Cobalt ferrite, a new gas sensing material

Paper ID: 10-769, Poster Session 1, Topic: 8 - Sensors Based on New Materials
Francisco Molina-Lopez, Ecole Polytechnique Fédérale de Lausanne, Switzerland
All-additive inkjet printed humidity and temperature sensors fabricated and encapsulated at foil level

Paper ID: 10-781, Poster Session 1, Topic: 8 - Sensors Based on New Materials
Yadong Jiang, University of Electronic Science and, China
Parameter optimization of the OTFT gas sensor and its trace NO2-sensing properties

Paper ID: 10-784, Poster Session 1, Topic: 8 - Sensors Based on New Materials
Guangzhong Xie, University of Electronic Science and, China
Fabrication and properties of an OLED-based gas sensor with poly(3-hexylthiophene) sensing film

Paper ID: 10-786, Poster Session 1, Topic: 8 - Sensors Based on New Materials
Ehsan Danesh, University of Manchester, Great Britain
Flexible ammonia sensor based on polyaniline/carbon black composites operating at elevated temperatures

Paper ID: 10-789, Poster Session 1, Topic: 8 - Sensors Based on New Materials
Carlos Ruiz Zamarreno, University of Navarra, Spain
Work function gas sensors at room temperature by means of conductive polypyrrole thin-films

Paper ID: 10-799, Poster Session 1, Topic: 8 - Sensors Based on New Materials
Judith Staginus, Delft University of Technology, Netherlands
Surface-engineered sensors: polymer-based sensors for the capacitive detection of organic pollutants in water

Paper ID: 10-818, Poster Session 1, Topic: 8 - Sensors Based on New Materials
Olga M. Ivanova, Joint Stock Company, Russia
Effect of composition and formation conditions on characteristics of ammonia sensor

Paper ID: 10-842, Poster Session 1, Topic: 8 - Sensors Based on New Materials
Nilton Cesar Ribeiro, Instituto Federal de Mato Grosso, Brasil
Peat as an alternative material for use in ammonia sensors

Paper ID: 10-655, Poster Session 1, Topic: 9 - Technology and Application
Hossam Haick, Technion-Israel Institute of Technology, Israel
Chemical nanoarrays for early detection and screening of lung cancer via volatile biomarkers

Paper ID: 10-665, Poster Session 1, Topic: 9 - Technology and Application
Jörg Fochtmann, Otto-von-Guericke-Universität Magdeburg, Germany
Investigation of water penetration into ceramides with lateral field excitation sensors

Paper ID: 10-666, Poster Session 1, Topic: 9 - Technology and Application
Jianhai Sun, Chinese Academy of Sciences, China
A micro gas chromatography system for VOCs gas mixtures analysis

Paper ID: 10-682, Poster Session 1, Topic: 9 - Technology and Application
Michael Breedon, Kyushu University, Japan
Enhanced response of high temperature H2 sensors via the application of micro-dimensional gold mesh

Paper ID: 10-694, Poster Session 1, Topic: 9 - Technology and Application
Serge Zhuiykov, Commonwealth Scientific Industrial, Australia
Integrated solid-state sensors monitoring water quality for the next generation of wireless sensor networks

Paper ID: 10-696, Poster Session 1, Topic: 9 - Technology and Application
Philip Wägli, École Polytechnique Fédérale de Lausanne, Switzerland
UV-curable adhesive as the low-cost material of choice for microfluidic forensic applications

Paper ID: 10-697, Poster Session 1, Topic: 9 - Technology and Application
Akie Kobayashi, Ogihara Mfg. Co.,Ltd., Japan
Capacitive gas-bubble sensor for solid oxide fuel cell

Paper ID: 10-700, Poster Session 1, Topic: 9 - Technology and Application
Vittorio Guarnieri, Fondazione Bruno Kessler, Italy
MEMS system for fire detection in the forest

Poster Session 1: Monday, 21.05.2012, 15.30 h – 17.00 h

Paper ID: 10-704, Poster Session 1, Topic: 9 - Technology and Application
Jürgen Hürttlen, Fraunhofer-Institut - ICT - für Chemische Technologie, Germany
Sensor concepts for the detection of explosives with selective layers based on molecularly imprinted polymers

Paper ID: 10-712, Poster Session 1, Topic: 9 - Technology and Application
Ravindra U. Mene, School of Engineering, India
Surface modification of cobalt doped hydroxyapatite thick films via Swift Heavy Ion irradiations for CO and CO2 gas sensing application

Paper ID: 10-721, Poster Session 1, Topic: 9 - Technology and Application
Rolf Seifert, Karlsruher Institut für Technologie KIT, Germany
Batch-wise calibration of multi-gas-sensors and calibration models for mono-gas- and multi-gas-applications

Paper ID: 10-741, Poster Session 1, Topic: 9 - Technology and Application
Alexey A. Vasiliev, National Research Center "NRC", Russia
Portable dynamic set-up with diffusion type gas source for the calibration of gas sensors and analysis instruments

Paper ID: 10-745, Poster Session 1, Topic: 9 - Technology and Application
Kai Nörthemann, Humboldt-Universität zu Berlin, Germany
Early forest fire detection using low energy hydrogen sensors

Paper ID: 10-746, Poster Session 1, Topic: 9 - Technology and Application
Xianping Chen, Delft University of Technology, Netherlands
Molecular Modeling of Protonic Acid Doping of Emeraldine Base Polyaniline for Chemical Sensing Applications

Paper ID: 10-772, Poster Session 1, Topic: 9 - Technology and Application
José S. Torrecilla, Complutense University of Madrid, Spain
Nonlinear algorithms to reduce the dimension of databases without loss of information

Paper ID: 10-785, Poster Session 1, Topic: 9 - Technology and Application
Peter Fremerey, Universität Bayreuth, Germany
Direct in-situ detection of sulfur loading on fixed bed catalysts

Paper ID: 10-787, Poster Session 1, Topic: 9 - Technology and Application
Sergi Udina, University of Barcelona, Spain
A MEMS based compact natural gas analyzer implementing IEEE-1451.2 and BS-7986 smart sensor standards

Paper ID: 10-803, Poster Session 1, Topic: 9 - Technology and Application
Henry Bruhns, HAW Hamburg, Germany
Photoacoustic spectroscopy using a MEMS microphone with Inter-IC Sound digital output

Paper ID: 10-806, Poster Session 1, Topic: 9 - Technology and Application
Andrey Bratov, Centro Nacional de Microelectrónica, Spain
New chemical sensor for detergents determination

Paper ID: 10-809, Poster Session 1, Topic: 9 - Technology and Application
Tijjani Adam, University Malaysia Perlis, Malaysia
Design and fabrication of passive fluid driven microchannel for fast reaction assays in nano lab-on-chip domain

Paper ID: 10-825, Poster Session 1, Topic: 9 - Technology and Application
Tang Zhenan, Dalian University of Technology, China
An electronic nose recognition algorithm based on PCA-ICA preprocessing and fuzzy neural network

Paper ID: 10-827, Poster Session 1, Topic: 9 - Technology and Application
Michael Stenbæk Schmidt, Technical University of Denmark, Denmark
Xsense: Integration of four independent microsensors for explosives detection

Paper ID: 10-856, Poster Session 1, Topic: 9 - Technology and Application
Jean Paul Viricelle, Ecole Nationale Supérieure des Mines de St. Etienne, France
Development of a standardized multi-sensors system for on-line atmospheric pollution monitoring

Paper ID: 10-859, Poster Session 1, Topic: 9 - Technology and Application
Virginie Laithier, Aix-Marseille Université, France
Thermal creep study in a gas detection microsystem

Poster Session 1: Monday, 21.05.2012, 15.30 h – 17.00 h

Paper ID: 10-871, Poster Session 1, Topic: 9 - Technology and Application
Hans-Ulrich Kobialka, Fraunhofer-Institut - IAIS -, Germany
Exploitation of gas sensor dynamics by the use of Echo State Networks

Paper ID: 10-886, Poster Session 1, Topic: 9 - Technology and Application
Guilherme S. Braga, Universidade de São Paulo, Brasil
Off-flavors' monitoring in raw and treated water by means of an electronic tongue system

Paper ID: 10-890, Poster Session 1, Topic: 9 - Technology and Application
Artur Dybko, Warsaw University of Technology, Poland
Contactless conductivity detector in PDMS microfluidic system

Paper ID: 10-911, Poster Session 1, Topic: 9 - Technology and Application
Sang-Joong Jung, Pukyong National University, Korea
Global machine-to-machine network for wide area healthcare Service

Paper ID: 10-914, Poster Session 1, Topic: 9 - Technology and Application
Wan-Young Chung, Pukyong National University, Korea
Real time multi-hop routing protocol for healthcare system based on WSN

Paper ID: 11-136, Poster Session 1, Topic: 9 - Technology and Application
Binu Baby Narakathu, Western Michigan University, USA
Fully printed wireless LC sensor for heavy metal detection

Poster Session 2: Tuesday, 22.05.2012, 15.30 h – 17.00 h

Paper ID: 10-940, Poster Session 2, Topic: 0 - Metal Oxide-based Sensors
Sylvia Gieraltowska, Polish Akademy of Sciences, Poland
Investigations of dielectric and semiconductor oxides obtained by Atomic Layer Deposition method for transparent electronic sensor devices

Paper ID: 10-946, Poster Session 2, Topic: 0 - Metal Oxide-based Sensors
Marco Righettoni, ETH Zürich, Switzerland
Microsensor arrays for breath analysis

Paper ID: 10-977, Poster Session 2, Topic: 0 - Metal Oxide-based Sensors
Dominik Klaus, Universität Paderborn, Germany
Nanostructured metal oxides for high-temperature gas sensing structural stabilization in porous metal oxides

Paper ID: 11-034, Poster Session 2, Topic: 0 - Metal Oxide-based Sensors
Zilong Tang, Tsinghua University, China
Synthesis and gas sensing properties of monoclinic TiO2

Paper ID: 11-061, Poster Session 2, Topic: 0 - Metal Oxide-based Sensors
Azhar Ali Haidry, Comenius University, Slovakia
Studies of hydrogen gas sensing properties of anatase TiO2 thin films prepared by magnetron sputtering

Paper ID: 11-078, Poster Session 2, Topic: 0 - Metal Oxide-based Sensors
Saeideh Rahbarpour, K. N. Toosi University of Technology, Iran
Schottky type Ag-TiO2 hydrogen sensor: gas sensing mechanism and modeling

Paper ID: 11-087, Poster Session 2, Topic: 0 - Metal Oxide-based Sensors
L. Fernández, University of Barcelona, Spain
Multi-way analysis of diversity and redundancy factors in large MOX gas sensor data

Paper ID: 11-089, Poster Session 2, Topic: 0 - Metal Oxide-based Sensors
Marco Mugnaini, University of Siena, Italy
Preparation and characterization of Pd doped YCoO3 perovskite CO sensors

Paper ID: 11-091, Poster Session 2, Topic: 0 - Metal Oxide-based Sensors
Ken Watanabe, National Institute for Materials Science, Japan
Interaction of water vapor with SnO2

Paper ID: 11-099, Poster Session 2, Topic: 0 - Metal Oxide-based Sensors
Nabarun Bhattacharyya, Center for Development of Advance Computing, India
SnO2 based tea aroma sensors for electronic nose

Paper ID: 11-100, Poster Session 2, Topic: 0 - Metal Oxide-based Sensors
Santiago Marco Colás, University of Barcelona, Spain
Optimization of sensor array for odorant discrimination

Paper ID: 11-118, Poster Session 2, Topic: 0 - Metal Oxide-based Sensors
Patryk Halek, Wroclaw University of Technology, Poland
Sensing performance of heterojunction gas sensors based on SnO2, WO3 and ZnO metal oxides

Paper ID: 11-120, Poster Session 2, Topic: 0 - Metal Oxide-based Sensors
Valeriy Krivetskiy, M.V. Lomonosov Moscow State University, Russia
Semiconductor gas sensing coupled with pre-sampling system for public security

Paper ID: 11-133, Poster Session 2, Topic: 0 - Metal Oxide-based Sensors
Wojciech Maziarz, AGH University of Science and Technology, Poland
Deposition of nanocrystalline WO3 thin film using magnetron sputtered multilayer structure in view of gas sensor applications

Paper ID: 11-141, Poster Session 2, Topic: 0 - Metal Oxide-based Sensors
Peter J. Smith, McGowan Smith Consultancy Ltd, Great Britain
A feasibility study on a two-component metal oxide sensor for engine NOx detection

Paper ID: 11-145, Poster Session 2, Topic: 0 - Metal Oxide-based Sensors
Alaa Eldin Gad, Universität zu Köln, Germany
Solar driven zinc oxide based heterojunctions for gas sensing applications

Paper ID: 11-159, Poster Session 2, Topic: 0 - Metal Oxide-based Sensors
Andrei Kolmakov, Southern Illinois University Carbondale, USA
Ta2O5 nanoporous membrane for chemical sensing in harsh environment

Paper ID: 11-161, Poster Session 2, Topic: 0 - Metal Oxide-based Sensors
V. Jeseentharani, Loyola Institute of Frontier Energy, India
Preparation and humidity sensing properties of silver oxide added bismuth iron molybdate

Poster Session 2: Tuesday, 22.05.2012, 15.30 h – 17.00 h

Paper ID: 11-180, Poster Session 2, Topic: 0 - Metal Oxide-based Sensors
Victor S. Popov, N.S. Kurnakov Institute of General and Inorganic Chemistry, Russia
Synthesis of tin dioxide thin films with different morphology by APCVD for gas sensor application

Paper ID: 11-204, Poster Session 2, Topic: 0 - Metal Oxide-based Sensors
Daniela Bekermann, Università di Padova, Italy
Enhancing p-type Co3O4 gas sensing performances by fluorine doping

Paper ID: 11-208, Poster Session 2, Topic: 0 - Metal Oxide-based Sensors
Sanjay D. Jadhav, JAL AUTOMATION & SYSTEMS, India
Gas response and selectivity of zinc ferrite as H2S gas sensor

Paper ID: 10-985, Poster Session 2, Topic: 1 - Biosensors
R. V. Sonko, National University of Life and Environmental Sciences, Ukraine
Express biosensor control of maize plants under different agrotechnical procedures

Paper ID: 10-991, Poster Session 2, Topic: 1 - Biosensors
António M. Peres, Instituto Politécnico de Bragança, Portugal
Performance study of a potentiometric sensor array for lactic proteins analysis

Paper ID: 10-994, Poster Session 2, Topic: 1 - Biosensors
Adisorn Tuantranont, National Electronic and Computer Technology Center, Thailand
Inkjet-printed graphene-PEDOT:PSS modified on screen printed carbon electrode for biochemical sensing

Paper ID: 11-016, Poster Session 2, Topic: 1 - Biosensors
Vincenzo Guidi, University of Ferrara, Italy
Sensing of typical gaseous malodors in organic decomposition products

Paper ID: 11-026, Poster Session 2, Topic: 1 - Biosensors
Beata Rozum, Polish Akademy of Sciences, Poland
A new approach to tricyclic antidepressants detection based on graphite microsensors fabricated by an innovative method

Paper ID: 11-031, Poster Session 2, Topic: 1 - Biosensors
Raluca-Ioana Stefan van Staden, National Institute of Research for Electrochemistry and Condensed Matter, Romania
New stochastic sensors for biomedical applications

Paper ID: 11-033, Poster Session 2, Topic: 1 - Biosensors
Huzein Fahmi Hawari, CEASTech University Malaysia Perlis (UniMAP), Malaysia
Exploring MIP sensor of Basal Stem Rot (BSR) disease in palm oil plantation

Paper ID: 11-074, Poster Session 2, Topic: 1 - Biosensors
Carmen Moldovan, National Institute for Research and Development in Microtechnologies, Romania
Microfabrication technology of a biosensor array based platform for pesticides detection

Paper ID: 11-075, Poster Session 2, Topic: 1 - Biosensors
Hyen-Wook Kang, Dong-A University, Korea
Sensing the interaction forces between DNA and platinum complex for studying function anticancer materials

Paper ID: 11-079, Poster Session 2, Topic: 1 - Biosensors
Thomas Frank, CiS Forschungsinstitut für Mikrosensorik und Photovoltaik GmbH, Germany
Impedimetric biosensor for cell viability

Paper ID: 11-107, Poster Session 2, Topic: 1 - Biosensors
Martyna Janczyk, Warsaw University of Technology, Poland
Fluoride sensing by polymeric membranes based on organoboron Lewis acid receptors

Paper ID: 11-117, Poster Session 2, Topic: 1 - Biosensors
Konstantinos Misiakos, Institute of Microelectronics, Greece
Label free biochemical determinations based on the contrast monitoring of periodic patterns

Paper ID: 11-140, Poster Session 2, Topic: 1 - Biosensors
Charlotte Steinbach, Universität Ulm, Germany
Towards the detection of static ATP levels above primary PTPRζ950;-osteoblastic cells and their knock-out mutants by ATP microbiosensors

Paper ID: 11-147, Poster Session 2, Topic: 1 - Biosensors
Maximilian Fleischer, Siemens AG, Germany
Detection of toxic chromium species in water using cell-based sensor systems

Poster Session 2: Tuesday, 22.05.2012, 15.30 h – 17.00 h

Paper ID: 11-152, Poster Session 2, Topic: 1 - Biosensors
Larisa Lvova, University of Rome - "Tor Vergata", Italy
Hybrid sensor array for the analysis of Sudan family colorants

Paper ID: 11-154, Poster Session 2, Topic: 1 - Biosensors
Ibtissem Gammoudi, University of Bordeaux, France
Optimization of physicochemical parameters of a multilayered polyelectrolyte film deposition with Love wave and AFM for bacteria based detection of heavy metals

Paper ID: 11-166, Poster Session 2, Topic: 1 - Biosensors
Jun Wang, Zhejiang University, China
Novel multianalyte and multifunction microphysiometer based on multiparameter microelectrode array for visualized cellular metabolic monitoring

Paper ID: 11-172, Poster Session 2, Topic: 1 - Biosensors
Marco Santonico, University of Rome - "Tor Vergata", Italy
Test of a device solving the interface issues between tenax tubes and a gas sensor array in an exhaled breath analysis context

Paper ID: 11-173, Poster Session 2, Topic: 1 - Biosensors
G. Pennazza, Universita Campus Bio-Medico di Roma, Italy
Design and calibration of a device solving the interface issues between tenax tubes and gas sensor arrays

Paper ID: 11-176, Poster Session 2, Topic: 1 - Biosensors
Konrad Nieradka, Wroclaw University of Technology, Poland
Single-beam multi-cantilever optical measurement head for cantilever array-based biosensors

Paper ID: 11-190, Poster Session 2, Topic: 1 - Biosensors
Shih-Wen Chiu, National Tsing Hua University, Taiwan
Identification of pneumonia based on an electronic nose

Paper ID: 11-193, Poster Session 2, Topic: 1 - Biosensors
Dumitru Ulieru, SITEX 45 SRL, Romania
The ubiquitous technology for prototype and disposable biochemical sensors packaging

Paper ID: 11-194, Poster Session 2, Topic: 1 - Biosensors
Martin Hämmerle, Universität Bayreuth, Germany
Determination of volatile alcohols in fruit and vegetable juices by an amperometric enzyme electrode measuring in the headspace above the liquid

Paper ID: 11-209, Poster Session 2, Topic: 1 - Biosensors
Marta Maria Pereira da Silva Neves, University of Oviedo, Spain
Multiplexed electrochemical immunosensor for detection of celiac disease serological markers

Paper ID: 10-724, Poster Session 2, Topic: 2 - Resonant Sensors
Yadong Jiang, University of Electronic Science and Technology of China (UESTC), China
Enhanced Love wave effect on STW resonator by ZnO guiding layer for DMMP detecting

Paper ID: 10-990, Poster Session 2, Topic: 2 - Resonant Sensors
Shuping Gong, Huazhong University of Science and Technology, China
An integrated passive impedance-loaded SAW sensors

Paper ID: 10-997, Poster Session 2, Topic: 2 - Resonant Sensors
Tsung Liang Chuang, National Taiwan University, Taiwan
Integrating segmented strip microfluidic device with surface plasmon resonance sensor for IFN-r detection

Paper ID: 10-998, Poster Session 2, Topic: 2 - Resonant Sensors
Toshihiko Kiwa, Graduate School of Natural Science and Technology, Japan
Label free immune assay using terahertz chemical microscope

Paper ID: 11-023, Poster Session 2, Topic: 2 - Resonant Sensors
Rapiphun Janmanee, Department of Chemistry, Faculty of Science Chiang Mai University, Thailand
Electrochemical surface plasmon resonance sensor for the detection of catecholamine on poly(2-aminobenzylamine) thin film

Paper ID: 11-035, Poster Session 2, Topic: 2 - Resonant Sensors
Marlia Morsin, Universiti Kebangsaan Malaysia, Malaysia
Detection of boric acid using localized surface plasmon resonance sensor of gold nanoparticles

Poster Session 2: Tuesday, 22.05.2012, 15.30 h – 17.00 h

Paper ID: 11-039, Poster Session 2, Topic: 2 - Resonant Sensors
Markus Feulner, Universität Bayreuth, Germany
In-operation monitoring of the soot load of diesel particulate filters with a microwave method

Paper ID: 11-062, Poster Session 2, Topic: 2 - Resonant Sensors
Gregor Beulertz, Universität Bayreuth, Germany
Replacing the lambda probe by radio frequency-based in-operando three-way catalyst oxygen loading detection

Paper ID: 11-076, Poster Session 2, Topic: 2 - Resonant Sensors
Sang-Mok Chang, Dong-A University, Korea
Development of 4-channel QCM sensing array for monitoring effects of anticancer agents to cultured cells

Paper ID: 11-128, Poster Session 2, Topic: 2 - Resonant Sensors
Denise Friedrich, Hochschule Coburg, Germany
A PVDF-driven cantilever resonator for density and viscosity determination of fluids

Paper ID: 11-132, Poster Session 2, Topic: 2 - Resonant Sensors
Massood Atashbar, Western Michigan University, USA
Development of guided SH-SAW based wireless sensing platform for monitoring protein binding

Paper ID: 11-175, Poster Session 2, Topic: 2 - Resonant Sensors
Konrad Nieradka, Wroclaw University of Technology, Poland
Electrochemical cell with electrically addressable cantilever arrays

Paper ID: 11-197, Poster Session 2, Topic: 2 - Resonant Sensors
Sanju Thomas, University of Warwick, Great Britain
Design and implementation of a high-frequency surface acoustic wave sensor array for pheromone detection in an insect-inspired infochemical communication system

Paper ID: 11-007, Poster Session 2, Topic: 3 - Sensors Based on Optical Techniques
Liping Du, Zhejiang University, China
Mulitple sensing and imaging of heavy metal ions based on new structural light-addressable potentiometric sensor array

Paper ID: 11-010, Poster Session 2, Topic: 3 - Sensors Based on Optical Techniques
Masayasu Suzuki, University of Toyama, Japan
Visualization of planar and temporal distribution of pH and oxygen in micro flow channel

Paper ID: 11-021, Poster Session 2, Topic: 3 - Sensors Based on Optical Techniques
Heng Yuan, Kyungpook National University, Korea
VOC gas detection using solvatochromic dye coated side-polished optical fiber

Paper ID: 11-049, Poster Session 2, Topic: 3 - Sensors Based on Optical Techniques
Francesca Dini, University of Rome - "Tor Vergata", Italy
Metalloporphyrin and pH indicator blends to enhance sensitivity of optical chemosensor

Paper ID: 11-052, Poster Session 2, Topic: 3 - Sensors Based on Optical Techniques
Jörg Teubert, Justus-Liebig-Universität Gießen, Germany
Optical approach for pH-detection using III-N nanostructures

Paper ID: 11-058, Poster Session 2, Topic: 3 - Sensors Based on Optical Techniques
Pedro J. Rivero, University of Navarra, Spain
An optical resonance sensor using silver nanoparticles-loaded films for monitoring human breathing

Paper ID: 11-066, Poster Session 2, Topic: 3 - Sensors Based on Optical Techniques
Trung-Hieu Nguyen, CEA Saclay, France
Innovative colorimetric sensors for the detection of nitrogen trichloride at ppb level

Paper ID: 11-067, Poster Session 2, Topic: 3 - Sensors Based on Optical Techniques
Carlos Rinaldi, Comision Nacional de Energia Atomica, Argentina
Detection of VOCs by Corona discharge-ion mobility spectrometry in mixed N2/O2 carrier gas

Paper ID: 11-070, Poster Session 2, Topic: 3 - Sensors Based on Optical Techniques
Jitapa Sumranjit, National Nanotechnology Center, Thailand
Fluorescent molecules together with principal component analysis for identifying metal ions

Paper ID: 11-113, Poster Session 2, Topic: 3 - Sensors Based on Optical Techniques
Alexander A. Pud, Institute of Bioorganic Chemistry and Petrochemistry of NASU, Ukraine
Polyaniline/poly(ethylene terephthalate) films as a sensing material in optical sensors for basic and acidic substances

Poster Session 2: Tuesday, 22.05.2012, 15.30 h – 17.00 h

Paper ID: 11-116, Poster Session 2, Topic: 3 - Sensors Based on Optical Techniques
Pilar Rodriguez-Franco, University of Barcelona, Spain
Fabrication of broad area optical nanostructures for high throughput chemical sensing

Paper ID: 11-135, Poster Session 2, Topic: 3 - Sensors Based on Optical Techniques
Binu Baby Narakathu, Western Michigan University, USA
A novel flexible gravure printed surface enhanced Raman spectroscopy (SERS) substrate for the detection of toxic heavy metals

Paper ID: 11-162, Poster Session 2, Topic: 3 - Sensors Based on Optical Techniques
Zhu Fan, Hochschule Coburg, Germany
Characterization and identification of diesel fuels, biodiesel and their blends by time-resolved laser-induced fluorescence spectroscopy

Paper ID: 11-167, Poster Session 2, Topic: 3 - Sensors Based on Optical Techniques
Carlos Calaza, Centro Nacional de Microelectrónica, Spain
Instrument for chemical analysis of liquid samples based on a CMOS compatible non-specific NDIR microarray

Paper ID: 11-168, Poster Session 2, Topic: 3 - Sensors Based on Optical Techniques
Kyeong-Seok Lee, Korea Institute of Science a. Technology, Korea
Optical waveguide sensor based on transparent nanocrystalline diamond film

Paper ID: 11-171, Poster Session 2, Topic: 3 - Sensors Based on Optical Techniques
Zoltan Bozóki, University of Szeged, Ukraine
Diode laser based photoacoustic systems for high reliability, high sensitivity gas concentration measurements

Paper ID: 11-184, Poster Session 2, Topic: 3 - Sensors Based on Optical Techniques
T. Hien Nguyen, School of Engineering and Mathematical Sciences, Great Britain
Fibre optic pH sensor for corrosion monitoring in concrete structures

Paper ID: 11-201, Poster Session 2, Topic: 3 - Sensors Based on Optical Techniques
Elena G. Ermolina, Tomsk State University, Russia
Tetraphenylporphyrin lanthanide complexes as new optical sensor agents for oxygen

Paper ID: 10-962, Poster Session 2, Topic: 4 - Nanostructured Sensors
Sadullah Öztürk, Gebze Institut of Technology, Turkey
Effect of ZnO nanorods density on NO2 sensing

Paper ID: 10-969, Poster Session 2, Topic: 4 - Nanostructured Sensors
Navas Illyaskutty, University of Kerala, India
Molybdenum oxide nanorods based thin films: effect of electrode metallization on hydrogen and ethanol sensing

Paper ID: 10-974, Poster Session 2, Topic: 4 - Nanostructured Sensors
Dario Zappa, CNR-IDASC, Italy
Thermally oxidized nanowires for chemical sensing

Paper ID: 10-980, Poster Session 2, Topic: 4 - Nanostructured Sensors
Karina Pierpauli, Grupo MEMS, Argentina
Green light effect on CuO nanowire thin film sensing at room temperature

Paper ID: 10-987, Poster Session 2, Topic: 4 - Nanostructured Sensors
Cihat Tasaltin, TUBITAK Marmara Research Center, Turkey
Electrospun nanostructured ZnO thin films on SAW sensors for VOC detection

Paper ID: 10-995, Poster Session 2, Topic: 4 - Nanostructured Sensors
Sang Hak Lee, Kyungpook National University, Korea
Fabrication of microfluidic chip-based chemiluminescence sensor by the immobilization of copper(II) on a MWCNT-nafion composite and its analytical application

Paper ID: 10-996, Poster Session 2, Topic: 4 - Nanostructured Sensors
Sang Hak Lee, Kyungpook National University, Korea
Fabrication of silver nanoparticles immobilzed microfluidic chip for chemiluminescence based analytical application

Paper ID: 11-011, Poster Session 2, Topic: 4 - Nanostructured Sensors
Dorota Flak, AGH University of Science and Technology, Poland
Effect of the titania substitution on the electronic structure and transport properties of FSS-made Fe2O3 nanoparticles for hydrogen sensing

Poster Session 2: Tuesday, 22.05.2012, 15.30 h – 17.00 h

Paper ID: 11-044, Poster Session 2, Topic: 4 - Nanostructured Sensors
Yeon-Tae Yu, Chonbuk National University, Syria
Synthesis of Au/SnO2 core-shell NPs with thick shell and their CO sensing properties in low temperatures

Paper ID: 11-045, Poster Session 2, Topic: 4 - Nanostructured Sensors
Irene Castro-Hurtado, C.E.I.T., Spain
SnO2 NWs-based sensor prototype for low temperature formaldehyde detection

Paper ID: 11-059, Poster Session 2, Topic: 4 - Nanostructured Sensors
Manmeet Kaur, Bhabha Atomic Research Centre, India
Growth and H2S gas sensing properties of CuO functionalized ZnO nanotetrapod

Paper ID: 11-060, Poster Session 2, Topic: 4 - Nanostructured Sensors
Manmeet Kaur, Bhabha Atomic Research Centre, India
Ethanol sensing properties of pure and Au modified ZnO nanowires

Paper ID: 11-095, Poster Session 2, Topic: 4 - Nanostructured Sensors
Elise Brunet, AIT Austrian Institute of Technology, Austria
Network of SnO2 nanowires for increased gas sensing performances

Paper ID: 11-098, Poster Session 2, Topic: 4 - Nanostructured Sensors
Alexander A. Pud, Institute of Bioorganic Chemistry and, Ukraine
Design of nanostructured all-polymer solution-processable ammonia sensors with ppb-range sensitivity

Paper ID: 11-112, Poster Session 2, Topic: 4 - Nanostructured Sensors
Eike Brauns, IMSAS, University of Bremen, Germany
A miniaturized catalytic gas sensor with functionalized nanoparticles as catalytic layer

Paper ID: 11-179, Poster Session 2, Topic: 4 - Nanostructured Sensors
Pedro J. Rivero, University of Navarra, Spain
Silver nanoparticles loaded electrospun nanofibers for humidity optical fiber sensing

Paper ID: 11-187, Poster Session 2, Topic: 4 - Nanostructured Sensors
Arun Singh, University of Delhi, India
Highly sensitive nanostructured dodecylbenzene sulphonic acid doped polyaniline based ammonia sensor

Paper ID: 11-199, Poster Session 2, Topic: 4 - Nanostructured Sensors
K. Klosek, Polish Akademy of Sciences, Poland
MBE growth of GaN nanowires on Si(111) substrates for gas sensor applications

Paper ID: 11-202, Poster Session 2, Topic: 4 - Nanostructured Sensors
Zafer Ziya Öztürk, Gebze Institut of Technology, Turkey
TiO2 nanotube/phthalocyanine hybrid structure for VOC sensor application

Paper ID: 11-205, Poster Session 2, Topic: 4 - Nanostructured Sensors
Daniela Bekermann, Università di Padova, Italy
Plasma-assisted synthesis of p-Co3O4/n-ZnO nanocomposites for gas sensors

Paper ID: 11-206, Poster Session 2, Topic: 4 - Nanostructured Sensors
Daniela Bekermann, Università di Padova, Italy
Detection of flammable and toxic analytes by urchin-like ZnO nanomaterials

Paper ID: 11-210, Poster Session 2, Topic: 4 - Nanostructured Sensors
M. T. Fernandez-Abedul, University of Oviedo, Spain
Forest and disordered carbon nanotubes: sensitivity improvement of electrochemical detection in miniaturized devices

Paper ID: 10-875, Poster Session 2, Topic: 5 - FET-based Sensors
Anne-Kathrin Gerlitzke, Humboldt-Universität zu Berlin, Germany
Long-term stability of the low energy hydrogen sensor

Paper ID: 10-956, Poster Session 2, Topic: 5 - FET-based Sensors
Arshak Poghossian, Fachhochschule Aachen, Germany
Electrical monitoring of layer-by-layer adsorption of oppositely charged macromolecules by means of capacitive field-effect devices

Paper ID: 11-015, Poster Session 2, Topic: 5 - FET-based Sensors
Z. Darmastuti, Linköping University, Sweden
SiC-FET sensors for methanol leakage detection

Poster Session 2: Tuesday, 22.05.2012, 15.30 h – 17.00 h

Paper ID: 11-030, Poster Session 2, Topic: 5 - FET-based Sensors
Sang-Kwon Lee, Kyungpook National University, Korea
Fabrication of pH-ISFET with Al2O3 sensing membrane for continuous monitoring

Paper ID: 11-203, Poster Session 2, Topic: 5 - FET-based Sensors
Mohammad Mahdavi, University of Tehran, Iran
High pH-sensitive ion selective field effect transistor using porous poly Si gate

Paper ID: 10-858, Poster Session 2, Topic: 6 - Electrochemical-based Sensors
Michal Schulz, Technische Universität Clausthal, Germany
Measurement and control of oxygen partial pressure at elevated temperatures

Paper ID: 10-906, Poster Session 2, Topic: 6 - Electrochemical-based Sensors
Matthias Schelter, Kurt-Schwabe-Institut für Mess- und, Germany
A solid electrolyte sensor for trace gas analysis

Paper ID: 10-933, Poster Session 2, Topic: 6 - Electrochemical-based Sensors
Jiawen Jian, Ningbo University, China
A planar oxygen sensor with a dense 8YSZ diffusion barrier

Paper ID: 10-938, Poster Session 2, Topic: 6 - Electrochemical-based Sensors
T. Komori, Okayama University, Japan
Characterization of new structural ion sensor using electrochemical impedance method

Paper ID: 11-017, Poster Session 2, Topic: 6 - Electrochemical-based Sensors
Daniela Schönauer-Kamin, Universität Bayreuth, Germany
Half-cell characterization of a novel NH3 gas sensor

Paper ID: 10-878, Poster Session 2, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Carlo Cantalini, University of Aquila, Italy
Preparation of nitrogen doped TiO2 nanofibers by near field electrospinning (NFES) technique for NO2 sensing applications

Paper ID: 10-885, Poster Session 2, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Carlos Rinaldi, Comision Nacional de Energia Atomica, Argentina
The CO gas sensing properties of TiO2 nanotubes

Paper ID: 10-907, Poster Session 2, Topic: 7 - Nanostructured Metal Oxide-based Sensors
B. Lyson-Sypien, AGH University of Science and Technology, Poland
Gas sensing properties of TiO2- SnO2 nanocomposites

Paper ID: 10-909, Poster Session 2, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Bartlomiej Witkowski, Polish Akademy of Sciences, Poland
Zinc oxide nanostructures obtained by hydrothermal method for sensor application

Paper ID: 11-032, Poster Session 2, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Byung Wook Hwang, Kyungpook National University, Korea
Sensing properties of nanotin oxide gas sensors for the detection of NO2 of ppb level

Paper ID: 11-054, Poster Session 2, Topic: 7 - Nanostructured Metal Oxide-based Sensors
P. Manjula, CSIR-Indian Institute of Chemical Technology, India
Designing a room temperature hydrogen gas sensing material by a green synthetic procedure

Paper ID: 11-057, Poster Session 2, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Leonid I. Trakhtenberg, Semenov Institut of Chemical Physics RAS, Russia
Detection of reducing gases in air: experiment and theory

Paper ID: 11-105, Poster Session 2, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Vardan Galstyan, University of Brescia, Italy
Growth and gas sensing properties of rough ZnO nanowires

Paper ID: 11-106, Poster Session 2, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Sunyong Hwang, Pohang University of Science and Technology, Korea
TiO2 nanohelix gas sensors with enhanced performance and potential application as a building block of electronic noses

Paper ID: 11-111, Poster Session 2, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Roman Jimenez-Diaz, University of Barcelona, Spain
Individual metal oxide nanowire-based nanosensors for monitoring of toxic species

Paper ID: 11-119, Poster Session 2, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Joan Ramon Morante, Catalonia Institute for Energy Research, Spain
H2S detection by individual SnO2 nanowire sensors

Poster Session 2: Tuesday, 22.05.2012, 15.30 h – 17.00 h

Paper ID: 11-129, Poster Session 2, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Harry L. Tuller, Massachusetts Institute of Technology, USA
Role of nano-scale morphology in response of CuO-based semiconducting oxide sensors to hydrogen gas

Paper ID: 11-163, Poster Session 2, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Ahsanul-Haq Qurashi, King Fahd University of Petroleum &, Saudi Arabia
Versatile synthesis and nanopatterning of In2O3 nanostructures for hydrogen sensor applications

Paper ID: 11-165, Poster Session 2, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Pandit Shelke, Baburaoji Gholap College, India
Ammonia gas sensing properties of 1-D interlinked nanowired Co3O4 films prepared by pulsed D.C. electrochemical deposition method

Paper ID: 11-169, Poster Session 2, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Naghmeh Faal Hamedani, Technical and Vocational University, Iran
CO and ethanol selective sensor of La2O3-doped ZnO nanostructures synthesized by microwave assisted fast method

Paper ID: 11-198, Poster Session 2, Topic: 7 - Nanostructured Metal Oxide-based Sensors
Dongdong Li, University of Southern California, USA
Conductometric chemical sensor based on CuO nanowires

Paper ID: 10-846, Poster Session 2, Topic: 8 - Sensors Based on New Materials
Asmiet Ramizy, Universiti Sains Malaysia, Malaysia
High Quality GaN/AlN/Si(111) single crystal papered via PA-MBE for hydrogen gas sensor application

Paper ID: 10-855, Poster Session 2, Topic: 8 - Sensors Based on New Materials
Nizamara Simenremis Pereira, University of Brasilia, Brasil
Capacitance measurements of polymeric blends to identify atrazine in water

Paper ID: 10-877, Poster Session 2, Topic: 8 - Sensors Based on New Materials
Leonardo Frois Hernandez, University of Sao Paulo, Brasil
Adsorbent composites used on mixing in miniaturized structures

Paper ID: 10-879, Poster Session 2, Topic: 8 - Sensors Based on New Materials
Carlo Cantalini, University of Aquila, Italy
NO2 response to single layered MoS2

Paper ID: 10-934, Poster Session 2, Topic: 8 - Sensors Based on New Materials
Isabella Marr, Universität Bayreuth, Germany
Sensing NOx and NH3 with zeolite-based gas sensors

Paper ID: 10-937, Poster Session 2, Topic: 8 - Sensors Based on New Materials
Andrea Groß, Universität Bayreuth, Germany
Study of the electrical conductivities of the NOx trap materials BaCO3 and K2CO3/Al2O3 during NOx exposure as sensitive layers or for in-situ characterization of catalyst systems

Paper ID: 10-965, Poster Session 2, Topic: 8 - Sensors Based on New Materials
Markus Windisch, Technische Universität Dresden, Germany
Innovative hydrogel sensor solution for process monitoring

Paper ID: 10-968, Poster Session 2, Topic: 8 - Sensors Based on New Materials
Yi Liu, Huazhong University of Science and, China
Research on characteristics of hydrogen gas sensor based on palladium and yttrium alloy ultrathin film

Paper ID: 10-975, Poster Session 2, Topic: 8 - Sensors Based on New Materials
Ta-Jen Li, National Taiwan University, Taiwan
Modification of screen printed gold electrodes with conducting polymers and its application for drop-in nitrite sensing

Paper ID: 10-981, Poster Session 2, Topic: 8 - Sensors Based on New Materials
Petr Kubersky, University of West Bohemia, Czech Republic
Amperometric NO2 sensor based on solid polymer electrolyte for screen printing technology

Paper ID: 11-012, Poster Session 2, Topic: 8 - Sensors Based on New Materials
R.M. Nanaware, University of Pune, India
Synthesis, characterization and gas sensing applications of metallophthalocyanines

Paper ID: 11-036, Poster Session 2, Topic: 8 - Sensors Based on New Materials
Ashok M. Datir, University of Pune, India
Annealing effects on the gas sensing properties of spin coated unsubstited copper phthalocyanine films

Poster Session 2: Tuesday, 22.05.2012, 15.30 h – 17.00 h

Paper ID: 11-041, Poster Session 2, Topic: 8 - Sensors Based on New Materials
Saniay D. Chakane, Arts, Science and Commerce College, India
Nitrogen dioxide sensing characteristics of spin coated unsubstituted copper phthalocyanine films

Paper ID: 10-730, Poster Session 2, Topic: 9 - Technology and Application
Saverio De Vito, ENEA Centro Ricerche Portici, Italy
An electronic nose for CFRP bonding safety in aerospace industry: sensor selection

Paper ID: 10-737, Poster Session 2, Topic: 9 - Technology and Application
Hyung-Gi Byun, Kangwon National University, Korea
Unsupervised adjustment of centers in RBF networks for sensor drift compensation

Paper ID: 10-919, Poster Session 2, Topic: 9 - Technology and Application
Wen-Shiung Lour, National Taiwan Ocean University, Taiwan
Thermodynamic studies on GaAs-based chemical sensors with a mixture of Pd and SiO2

Paper ID: 10-924, Poster Session 2, Topic: 9 - Technology and Application
Leonardo Frois Hernandez, University of Sao Paulo, Brasil
Small and simple devices for increase mixing on detector surfaces

Paper ID: 10-931, Poster Session 2, Topic: 9 - Technology and Application
Yafeng Guan, Dalian University of Technology, China
High sensitive sensor for volatile alkylamines based on thermo surface ionization

Paper ID: 10-932, Poster Session 2, Topic: 9 - Technology and Application
Jiawen Jian, Ningbo University, China
The amperometric oxygen sensor based on La0.9Sr0.1Ga0.8Mg0.2O2.85

Paper ID: 10-957, Poster Session 2, Topic: 9 - Technology and Application
Giuseppe Ferri, University of L'Aquila, Italy
A novel OA-based oscillating circuit for uncalibrated capacitive and resistive sensor interfacing applications

Paper ID: 10-958, Poster Session 2, Topic: 9 - Technology and Application
Giuseppe Ferri, University of L'Aquila, Italy
Analog Wheatstone bridge-based automatic interface for grounded and floating wide-range resistive sensors

Paper ID: 10-959, Poster Session 2, Topic: 9 - Technology and Application
Rodrigue Rousier, CEA Grenoble, France
Gas chamber design for multi chemical sensors

Paper ID: 10-966, Poster Session 2, Topic: 9 - Technology and Application
Zhao Huixin, Zhejiang University, China
Smart trace metal monitoring system using homemade voltammetric controller and nano electrode array

Paper ID: 10-989, Poster Session 2, Topic: 9 - Technology and Application
Titus Sandu, National Institute for Research and Development in Microtechnologies, Romania
Plasmonic based chemical sensors: analysis of some applications by a Boundary Integral Equation method

Paper ID: 10-993, Poster Session 2, Topic: 9 - Technology and Application
Hongyu Ma, China University of, China
A preliminary study on package of catalytic methane sensor with silica aerogel

Paper ID: 11-018, Poster Session 2, Topic: 9 - Technology and Application
Sharvari Deshmukh, National Environmental Engineering and Research Institute, India
Monitoring of obnoxious odorants generated from pulp and paper industry using electronic nose

Paper ID: 11-037, Poster Session 2, Topic: 9 - Technology and Application
Matthew J. Griffin, RMIT University, Australia
A cross-platform investigation of Hg-Au response profiles

Paper ID: 11-038, Poster Session 2, Topic: 9 - Technology and Application
Gunter Hagen, Universität Bayreuth, Germany
Temperature-controlled sensor transducer for planar four-wire impedance spectroscopy

Paper ID: 11-043, Poster Session 2, Topic: 9 - Technology and Application
Eugenio Martinelli, University of Rome - "Tor Vergata", Italy
An artificial immune system model for gas sensors drift mitigation

Paper ID: 11-048, Poster Session 2, Topic: 9 - Technology and Application
Guangfen Wei, Shandong Institute of Business and Technology, China
A novel compressive sensing based electronic nose

Poster Session 2: Tuesday, 22.05.2012, 15.30 h – 17.00 h

Paper ID: 11-069, Poster Session 2, Topic: 9 - Technology and Application
Woosuck Shin, National Institute of Advanced, Japan
Deactivation mechanism of alumina supported Pt and Pd catalysts for gas sensor by hexamethyldisiloxane (HMDSO)

Paper ID: 11-082, Poster Session 2, Topic: 9 - Technology and Application
Joan Daniel Prades, University of Barcelona, Spain
A wireless interface for nanowire-based gas sensors

Paper ID: 11-085, Poster Session 2, Topic: 9 - Technology and Application
Jörn Frank, Technische Universität Hamburg-Harburg, Germany
Electrochemical cell array for fast sensor evaluation

Paper ID: 11-086, Poster Session 2, Topic: 9 - Technology and Application
Jörn Frank, Technische Universität Hamburg-Harburg, Germany
Handheld sensor array for detection of trace gases

Paper ID: 11-096, Poster Session 2, Topic: 9 - Technology and Application
Di Wang, Zhejiang University, China
The utilization of GC and temporal selection of multi-sensor intended for quantitative analysis of mixed gas

Paper ID: 11-108, Poster Session 2, Topic: 9 - Technology and Application
Anna Kutyla-Olesiuk, Warsaw University of Technology, Poland
Qualitative and quantitative analysis of apple extracts based on hybrid electronic tongue

Paper ID: 11-110, Poster Session 2, Topic: 9 - Technology and Application
Yoshinori Takei, Kanazawa Institute of Technology, Japan
Odor plume tracking using a mobile robot with pseudochemotaxis

Paper ID: 11-123, Poster Session 2, Topic: 9 - Technology and Application
Michele Penza, ENEA Centro Ricerche Brindisi, Italy
Portable chemical sensor-system for urban air-pollution monitoring

Paper ID: 11-139, Poster Session 2, Topic: 9 - Technology and Application
Andrei Kolmakov, Southern Illinois University Carbondale, USA
Simple graphene based multisensor array for gas analysis

Paper ID: 11-151, Poster Session 2, Topic: 9 - Technology and Application
Juan José Ortiz, Grupo MEMS, Argentina
Design and testing of a IMS-cell detector (with MEMS technology)

Paper ID: 11-153, Poster Session 2, Topic: 9 - Technology and Application
Daniel Gutmacher, Siemens Switzerland Ltd,, Switzerland
Fire gas transport phenomena beneath ceilings

Paper ID: 11-185, Poster Session 2, Topic: 9 - Technology and Application
Abdul Hallis Aziz, Center of Excellence for Advanced Sensor Technology, Malaysia
Development of a decision support system for brackish aquafarm management using electronic tongue

Paper ID: 11-186, Poster Session 2, Topic: 9 - Technology and Application
Zaher Ihdene, Polytechnic Military School, Algeria
Investigation of detection and retention parameters of organic solvents and organophosphorus toxics on mixed polyphenylmethylsiloxane/H-ZSM-5 zeolite

Paper ID: 11-188, Poster Session 2, Topic: 9 - Technology and Application
Ioannis Raptis, Institute of Microelectronics, Greece
Real time detection of volatile organic compounds through a chemocapacitor system

Paper ID: 11-189, Poster Session 2, Topic: 9 - Technology and Application
Shih-Wen Chiu, National Tsing Hua University, Taiwan
Building of a two-layered gas sensor array-based electronic nose to estimate the freshness of fish

Paper ID: 11-195, Poster Session 2, Topic: 9 - Technology and Application
Wan-Young Chung, Pukyong National University, Korea
Self organizing water quality monitoring system using flooding routing protocol in coastal marine area