Poster Program – EUROSENSORS XXXVI
1-4 September, Debrecen, Hungary

Monday, 2 September
16:30–18:15
Poster I

Session	#	First name	Family name	Title
PT1	1	Waqas Ahmed Khan	Afridi	A Support Vector Machine Learning Prediction Model of Evapotranspiration Using Real-time Sensor Node Data
	4	Cheonjoong	Kim	Design and Test Evaluation of Cluster Dither for Inertial Measurement Unit with 3-Axis Ring Laser Gyroscopes
	9	Haleh	Nazemi	Microbridge Resonators: Reducing Pull-in Voltage with Preserving Resonant Frequency
	41	Erion	Uka	On the Tunability of Resonant MEMS Sensor Subject to Blue Sideband Excitation
	56	Jun Eon	An	Method for Increasing Amplitude of Cluster Dither in RLG-based Small-size Inertial Measurement Unit
	101	Alexey	Vasiliev	Magnetic Sensors of Oxygen Concentration
	186	Eduard	Burian	Adaptive Accuracy Enhancement for Simultaneously-Firing Optical Position Sensor
	204	Muhammad	Hamidullah	Design and Simulation of Quartz-on-Silicon Bulk Acoustic Waves Resonator for High Sensitivity Multiplex Biosensor
	207	Elemer D.	Deak	Modeling and Quantifying Electrostatic Interactions for Kelvin-probe Measurements
	225	Alireza	Abbasimoshaei	Designing, Fabricating, and Analyzing the Whisker Sensor for Autonomous Surface Defect Detection
	270	Eliya	Salman	The Optimal Axial Strain Distribution in a Piezoelectric Vibrating Energy Harvester (PVEH)
PT2	60	Leila	Merzak	Damage Localization in Mechanical Structures Based on a Virtual Sensor Approach
	77	Gina	Zeh	Comprehensive Odor Measurement with AI-Supported Chemical Analytics and a Transition to Sensor Systems
	179	Philipp	Kersten	Smart ID-Tags for Locating Freight Wagons and Optimizing Maintenance Process
	210	Tamás	Zeffer	Towards fully hardware-based neuromorphic encoding for efficient vibration signal recognition
	300	Jean-Paul	Viricelle	Multi-sensor Platform for Indoor Air Quality Monitoring
	302	Saoutieff	Elise	Advances sensor system dedicated to real-time soil monitoring
PT5	29	Jose Carlos	Santos Ceballos	Electrochemical Deposition of Polyaniline on Laser-Induced Graphene for Room Temperature Ammonia Sensing
	34	Neža	Sodnik	Voltammetric Sensing of Benzotriazole at Single-Walled Carbon Nanotube Modified Screen-Printed Electrodes
	45	Maximilian	Pfeiffer	Transient IR Spectroscopy as a Novel Approach to Unravel the Active Surface Species of Chemoresistive Gas Sensors
	57	Nguyen	Hong Dang	Synthesis of 2-Dimensional WS2 Nanoflakes with NO2 Selectivity at Room Temperature
	59	Vittorio	Ricci	Pt-nanoparticles decorated Amorphous/Crystalline a-V2O5/VO2 Thin Films for NO2 and H2 sensing
	61	Petr	Smísitel	First-Order Time Derivative Response of MoS2 Nanofilm on TiO2 Nanotubes to NO2
	63	Jarred W	Fastier-Wooller	Rumen Bolus Extraction Method Using Absorbent Polymer for Timed Density Control
	68	Yernar	Shynybekov	Fe-doped SnO2 based gas sensor produced by SILAR for acetone gas sensing
	82	Nadia	Moukri	Multi-analyte Electrochemical Sensor Based on Graphene Oxide and Gold Nanoparticles Electrode
	91	Marcelo	Soares Borro	Low-bandgap Polymers, a New Sensitive Surface for Ammonia Detection
	92	Kengo	Shimanoe	Enhancement of Receptor Function on Metal Oxide Semiconductor Gas Sensors for Ultra Selectivity
	95	Seyed Hossein	Hosseini Shokouh	Humidity Amplified Sensitivity in a highly selective H2S Gas Sensor Using MXene-conjugated Polymer Composite
	98	Guillem	Domènech-Gil	Synergy between Metal Oxides, Metal-organic Frame-works, and Multivariate Statistics for Selective Room Tem-perature Gas Sensing
	106	Seyedehmahsa	Mousavilangari	The Development of Optical Sensors for Heavy Metal Ions detection on Nanocellulose substrate
	122	Jelena	Vujančević	Development of the Method for the Detection of Benzisothiazolinone
	127	Ignasi	Fort Grandas	Conductive MOFs for Chemoresistive Sensing of Greenhouse Gases Suitable for Internet of Things
	131	Michal	Patrnčiak	Enhancement of the gasistor device by the separation of the gas sensor and the memristor
	142	Anna	Estany Macià	ZIF-8-based surface plasmon resonance sensors for chemical vapor optical detection with LEDs
	144	Yasumasa	Kanekiyo	Distinct Color and Pattern Changes in Reactive Oxigen Species-Responsive Thin Films
	149	Asia	Kalinichenko	AI-enabled rapid method for complex quality assessment of edible oils
	152	Juan	Casanova-Chafer	Cation-Anion Influence in Lead Halide Perovskites Supported on Graphene for NH3 Detection
	155	Ema	Gričar	Development and Application of an Electrochemical Sen-sor for Hydrogen Peroxide in Alkaline Media Based on Flash Graphene
	174	Kitti Alexandra	Pankász	Chip-set for Chemoresistive Gas Sensors
	178	Adeline	Blot	Boron-doped Diamond Electrodes for sensing narcotics using Electrochemiluminescence
	185	Alba	Finelli	Towards Metal-Organic Framework based Optical Sensors for Pesticides Detection
	203	Larisa	Lvova	Solid support counts: towards development of all-solid state sensor for ketoprofen
	211	Alexandr	Laposa	NO_2 Gas Sensor with Inkjet-Printed Zinc Oxide and Boron-Doped Diamond Layer
	230	Usman	Yaqoob	3D Printed Micro-Gas Chromatography (μ-GC) System for Improved Low-Cost VOC sensing
	241	Mahdieh	Bagheri	In-situ Synthesis of MIP Thin Films on QCM Electrodes to Sense Engineered Nanoparticles
	242	Andreas	Güntner	Flame-made chemoresistive gas sensors and devices
	250	Madiha	Khan	Co_3O_4-NiO Nanocomposites for the Electrochemical Determination of L-Tyrosine
	255	João Otávio Donizette	Malafatti	Colorimetric sensor based on silver faujasite for chlorogen-ic acid polyphenol detection
	267	Vaishali	Vardhan	NO_2 Sensor on Ambipolar Si-Junctionless Nanowire Transistor
	285	Gina	Zeh	The right nose for electronic noses
	289	Lee	Seung	High performance potentiometric sensor for monitoring high concentration hydrogen based on Pd-Pt composite electrode
	291	Roig	Jordi	Development of fluorimetric chemosensor for GBL detection in saliva and beverages
	296	Ignasi	Fort Grandas	Metal-Organic Frameworks (MOFs)-Based Chemoresistive gas Sensors for Early Thermal Runaway Detection in Lithi-um-ion Batteries
	297	Anton	Köck	Multi-Gas sensor array based on SnO_2 and CuO thin films functionalized with Ag and Cu nanoparticles
	305	Caroline	Duc	New Tool to Unravel Interactions Between Gas and Sensitive Surface Through the Simultaneous Characterization of Gas Uptake and Electrical Properties of the Material
	308	Lucia	Corrà	Preliminary Study on the Poisoning Effect of Different Materials on MOX Sensors

Poster Program – EUROSENSORS XXXVI
1-4 September, Debrecen, Hungary

Tuesday, 3 September
16:00–18:00
Poster II

Session	#	First name	Family name	Title
PT1	55	Haleh	Nazemi	Polymer-coated QCM Sensor Leveraging Energy Trapping Effect for Enhanced Detection of Volatile Organic Compounds
	218	Gabor	Harsanyi	Remote and Self-Teaching Material for Sensorics: SensEdu
PT3	17	Arianna	Rossi	Functionalization of Black Phosphorus for Enhanced Hydrogen Detection
	49	France	Le Bihan	Water Transfer Printing of Silver Ink-based Temperature Sensors
	109	Daniel A.	Barcelos	Self-Supported Flexible Magnetic Silica-Titania Based Sol-gel Glasses: a Forth-Coming Material for Sensing Applications
	110	Joana R. O.	Gomes	Printed Electronics on Flexible Substrates and In-Mold Electronics Process for Production Optimization
	114	Jirawan	Jindakaew	Precision Detection Unlocked: Electrochemical Sensing of PBTC with Molecularly Imprinted Polymers
	167	Sandor	Kokenyesi	AVBVICVII Semiconductor Materials for Sensing Applications
	168	Sandor	Kokenyesi	Photoluminescence Material Based on Arsenic Sulfide Cluster Impregnated in Porous Glasses for Sensing and Detection Applications
	171	Alexey	Vasiliev	Solvothermal synthesis of highly dispersed Pd-decorated ZnO with high sensitivity to acetone
	245	Tomas	Lednicky	Recent Advances in Lithographic-Free Fabrication and Utilization of Well-Ordered AuNP LSPR Sensors
	299	Zolnai	Zsolt	Effective neutron absorption and conversion with thin 10B4C layers
PT4	2	ChiChang	Chang	Assessing Multiple Myeloma Using Photoacoustic Spec-trum Detection Method
	12	Akash	Gupta	SNR Enhancement of a MEMS Thermal Acoustic Pressure Sensor
	23	Dennis	Becker	A New Area Efficient Folded Piezoelectric MEMS Speaker
	66	Kei	Masunishi	Improvement of temperature stability in MEMS differential resonant accelerometer by G-T correction
	84	Gyeong Yeong	Lee	Capacitive Sensor based on Self-healing Ionic conductive hydrogels for Human Motion Detection
	96	Chia Yu	Cho	Ultra-High Sensitivity LC Resonant Pressure Sensor Based on a Microstructured Ionogel Dielectric Layer
	170	Mani Teja	Vijjapu	ully Screen-printed Highly Sensitive Strain Gauge with Low TCR
	193	Michael	Schneider	Directivity and distance dependence of generated pressure field of bistable PMUTs
	194	Sylvain	Kern	Sic micro hot wires for flow measurement in harsh environments
	200	Ádám	Salamon	Development of a novel silicon-based biocompatible EEG electrode
	212	Ali Hosseinpour	Shafaghi	Thermally Actuated Colloidal Tip SU-8 Scanning Probes
	234	Deyong	Chen	Electrochemical Seismometers Using a SOI Chip with Four Micro-electrodes
	238	János Márk	Bozorádi	Characterization of Gastric Tissue Samples with MEMS Force Sensor Based Indentation method
	262	Elda F	Saunderson	Characterization of Magnetotorquer Magnetic Moment: magnetometric and fluxmetric methods
	274	Zoltan	Szillasi	FOS4CMS: FBG monitoering in the CMS Experiment at CERN
	292	Tian	Ye	An implantable ultrasonic sensor for continuous and wireless monitoring of tissue strains
	303	Jean-Paul	Viricelle	Development of Metallic inks for the Fabrication of a Flex-ible Metal Oxide Gas Sensors by Inkjet Printing Process
	307	Thomas	Posnicek	Miniaturized Sensor Platform for the Determination of Impedance Spectroscopic Parameters in Environmental Monitoring
PT6	14	Cristiana Filipe	Domingues	Onsite Single-Step Device for Early Detection of Infections and Drought Stress in Vineyards
	32	Steffen	Kurzhals	Nanozyme activity of platinum nanoparticles prepared by pulsed laser ablation
	58	Pratika	Rai	Peptide-based biosensor for real-time monitoring of protease biomarkers
	94	Thi Linh Quyen	Than	Fluorescence-based point of care device for real-time rap-id detection of SARS-CoV-2
	115	Patcharapan	Suwannin	Electrochemical Biosensor Platform for Leptospirosis Diag-nosis in Urine Samples
	120	Paolo	Calorenni	PCR-free detection of miRNA biomarkers for neuro-degenerative disorders
	121	Mohammad Hossein	Ghanbari	Direct Electrode Modification of Paper-based Microfluidic Electrochemical Sensors Through Electrodeposition and Electropolymerization for Clozapine Sensing
	124	Paolo	Calorenni	Electrochemical detection of pathogen nucleic acid biosensing application
	126	Wojciech	Kubicki	3D Printed Microfluidic Lab-on-a-Disk for Centrifugal Droplet Generation
	182	Ismael	Benito-Altamirano	An Application to Count Yeast Cells Using Novel Lab-On-a-Chip Solution for the Wine Value Chain
	188	Tamas	Pardy	CogniFlow: Integrated Modular System For Automated Droplet Microfluidic Bioanalysis
	192	Sergio	Moreno	Portable Fluorescence Microscope applied to Organ-on-a-Chip Models
	198	Paula	Rodrigo	Development of a Novel Self-Immolative System Activated by DT-diaphorase for Hypoxic Environments
	205	Ayman	Saeed	Label-free Impedimetric Immunosensor for the Detection of Fibulin 2 as a Novel Biomarker for the Diagnosis of Hypertrophic Cardiomyopathy in Human Saliva
	226	Marc	Navarro Pons	Electrospun Silk Fibroin for Green Smart Sensors
	247	Anita	Bányai	Cells and Model Particles in Lateral Focusing Microfluid-ics
	257	Rebeka	Kovacs	Investigating the optical response of an LSPR sensor based on hexagonally arranged nanoparticles
	259	Nóra	Tarpataki	Detection of Nucleic Acids Based on Localized Surface Plasmon Resonance
	261	Júlia	González Sanz	Sustainable and battery-less self-powered glucose sensor for diabetes screening applications
	284	Gülşen	Zal	Evaluation of Cell Plating Efficiency on Polymer Surfaces for Organ-on-a-Chip Applications
	304	Saoutieff	Elise	Real-time water monitoring with advances biosensor sys-tems
PT7	123	Péter	Petrik	The power of using combinatorial materials science and finite element methods in the optimization of sensing by gold nanostructures
	142	Géza	Szántó	Effect of Particle Size Distribution on the Refractive Index Sensitivity of Plasmonic Nanoparticles
	254	Chun-Yen	Chien	Design, Fabrication and Validation of N-doped Si/Au/Al Schottky Barrier Device for detecting Surface Plasmon Resonance-Induced Hot-Electrons
	272	Peter	Basa	Accurate silicon epitaxial multilayer characterization for CMOS imager applications
	301	Fleury	Clement	Last developments in the angular response and defor-mation characterization of resonant micromirrors
	306	Daniel	Marín López	Stationary Gas Sensor Networks for Continuous Leakage Detection
PT10	206	Alkım	Adsız	Design and Implementation of a Piezoelectric Energy Harvesting System Embedded in a Composite Sandwich Panel
	227	Chia-Ling	Chiang	Multifunctional polarizing microscope system- Classification silicosis tissue and collagen film
	237	Khaled	Ibrahim	Electrochemical Impedance Spectroscopy of Lithium-ion Battery Cells under Different Load Conditions
	249	Mohamad	Ridwan	Experimental Evaluation of Thermoelectric Generators for Indoor Autonomous Sensors
	258	Mohamad	Ridwan	Study of the Linearity of Low-Area Photovoltaic Cells for Indoor Autonomous Sensors