

EUROSENSORS 2018 - Posterlist (Area 1 - Area 5)

	Area 1 (P1 - P103)	Area 2 (P104 - P153)	Area 3 (P154 - P201)	Area 4 (P202 - 248)	Area 5 (P249 - 302)
	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5
	Chemical Sensors and Sensors for Food Industry P1 - P36	Chemical Sensors and Sensors for Food Industry P104 - P124	Bio(medical) Sensors, Devices and Microfluidics P154 - P180	Light Sensors and Optical MEMS/NEMS P202 - P203	Piezoelectric, Dielectric Capacitive and Magnetic Sensors P249 - P260
1	P1 - ID 7036 Carolin PANNEK Gasochromic Detection of NO ₂ on the Example of the Food Additive E141(ii)	P104 - ID 7347 Wangli SARI Tungsten Oxide Based Sensor for Oxygen Detection	P154 - ID 7333 Stefan KÖSTLER UV/Ozone Surface Treatment for Bonding of Elastomeric COC-Based Microfluidic Devices	P202 - ID 7303 Karolina ORLOWSKA Mechanical Impedance Analysis of a Novel MEMS Photon Force Sensor	P249 - ID 7249 Maik BERTKE Design of Self-Out readable Nano/Micro-Wire Resonator for High Sensitive Airborne Nanoparticle Detection
2	P2 - ID 7039 Mitsuaki YANO Gas Sensing Characteristics of a WO ₃ Thin Film Prepared by a Sol-Gel Method	P105 - ID 7351 Neslihan SARICA The Effect of Pt Decoration on the Gas Sensing Properties of Copper Oxide Nanorods	P155 - ID 7337 Alex MASON A549 Cells Measurements with Optical, Impedance and Microwave Spectroscopy	P203 - ID 7504 Hilmi ARTUN OYMAN Towards 3D Confocal Imaging with Laser-Machined Micro-Scanner	P250 - ID 7265 Michael FAHRBACH Optimizing a Cantilever Measurement System Towards High Speed, Nonreactive Contact-Resonance-Profilometry
3	P3 - ID 7062 Arvid HUNZE Response Time of a Fiber Bragg Grating Based Hydrogen Sensor for Transformer Monitoring	P106 - ID 7353 Guillem DOMÈNECH-GIL Room Temperature Humidity Sensor Based on Single β-Ga ₂ O ₃ Nanowires	P156 - ID 7354 Jörg ETTEAUER A Reliable and Sensitive Method Using Cyclic Voltammetry for the Detection of Airborne Fungi	P204 - ID 7540 Alexandra POKRZYWNICKA Integrated Microprisms' Matrix for Coupling a Laser Beam in Microfluidic Systems	P251 - ID 7295 Suresh ALASATRI AIN-on-Si Square Diaphragm Piezoelectric Micromachined Ultrasonic Transducer with Extended Range of Detection
4	P4 - ID 7080 Krystyna SCHNEIDER Vanadium Pentoxide Thin Films: Synthesis, Characterization and Nitrogen Dioxide Sensing Properties	P107 - ID 7360 Éric NAVARRETE Gas Sensing Properties of WO ₃ Nanowires Decorated with Iridium Oxide Nanoparticles	P157 - ID 7357 Norailay AHMAD Collagenase Biosensor Based on Degradation of Peptide Cross-Linked Poly(Ethylene Glycol) Hydrogel Films	P205 - ID 7005 Verena LEITGEB SPM - SEM Investigations of Semiconductor Nanowires for Enhanced Performance of Metal Oxide Gas Sensors	P252 - ID 7309 Eyglis LEDESMA Squared PMUT with Enhanced Pressure Sensitivities
5	P5 - ID 7083 Luca VOLLERO A Sensor System for the Monitoring of Production Processes of Low FODMAP Food	P108 - ID 7363 Roland POHLE Evaluation of a Colorimetric Sensor System for Early Fire Detection	P158 - ID 7393 Agus Budi DHARMAWAN Artificial Neural Networks for Automated Cell Quantification in Lensless LED Imaging Systems	P206 - ID 7014 Kazuki HIRASAWA Photostimulable Phosphor Glass for Ionizing Radiation Monitoring	P253 - ID 7314 Patrick KROH Detection of Biomimetic Ultrasonic Reflectors for Mobile Robotics
6	P6 - ID 7084 Corrado DI NATALE Porphyrin-ZnO Nanoparticles Chiral Assemblies for Stereoselective Sensors	P109 - ID 7382 Olga KOROSTYNSKA Electromagnetic Sensing for Non-Destructive Real-Time Fruit Ripeness Detection: Case-Study for Automated Strawberry Picking	P159 - ID 7397 Ivana JOKIC Analysis of Stochastic Time Response of Microfluidic Biosensors in the Case of Competitive Adsorption of Two Analytes	P207 - ID 7053 Armin KLUMPP Enzymatic Sensor Based on Dye Sensitized TiO ₂ Electrode for Detection of Catechol in Water	P254 - ID 7375 Nadia ALOUI Novel Approach for Modeling an Ionic Imprinted Polymer Based SAW Sensor with COMSOL Multiphysics
7	P7 - ID 7103 Ya-Chu LEE Design and Fabrication of MOS Type Gas Sensor with Vertically Integrated Heater Using CMOS-MEMS Technology	P110 - ID 7385 Sandrine BERNARDINI Ammonia Detection at Low Temperature by Tungsten Oxide Nanowires	P160 - ID 7408 Peter KUHN Non-Invasive Heart Beat Measurement Using Microwave Resonators	P208 - ID 7056 Julian PILZ Tuning Material Properties of ZnO Thin Films for Advanced Sensor Applications	P255 - ID 7401 Paul MAIERHOFER Characterization of a Capacitive Sensor for Particulate Matter
8	P8 - ID 7105 Claudio ZULIANI Optimizing Paste Formulation for Improving the Performance of CMOS-Based MOX Chemiresistors Prepared by Ink-Jet Printing	P111 - ID 7387 Marius RODNER Iron Oxide Nanoparticle Decorated Graphene for Ultra-Sensitive Detection of Volatile Organic Compounds	P161 - ID 7428 Domenico CAPUTO On-Glass Optoelectronic Platform for on-Chip Detection of DNA	P209 - ID 7077 Fabian MURALTER Thickness-Dependent Swelling Behaviour of Vapor-Deposited Hydrogel Thin Films	P256 - ID 7448 Eurico E. MOREIRA Resonant Accelerometer Based on Double-Ended Tuning Fork and a Force Amplification Mechanism
9	P9 - ID 7106 Seunghwan YI IR Absorbance As a Criterion for Temperature Compensation in Nondispersive Infrared Gas Sensor	P112 - ID 7395 Johanna ZIKULNIG Printed 2D Proton Sensor for in-situ Measurement in Glue Lines	P162 - ID 7429 Aleksandra POKRZYWNICKA Multiparametric Porcine Oocyte Deformation Characterization by Novel MEMS-Type Cytometer	P210 - ID 7085 Sergey KRUTOVERTSEV Films of polyphthalocyanines for Gas Sensitivity Study at Low Temperatures	P257 - ID 7481 Martin JEAGLE On-Chip Temperature Compensation for Thermal Impedance Sensors
10	P10 - ID 7109 Boris PODLEPETSKEY Performance Degradations of MISFET-Based Hydrogen Sensors with Pd-Ta ₂ O ₅ -SiO ₂ -Si Structure at Long-Time Operation	P113 - ID 7399 Philipp BREITGEGGER A Precise Gas Dilutor Based on Binary Weighted Critical Flows to Create NO ₂ Concentrations	P163 - ID 7430 Ágnes SZABÓ Modification of Glial Attachment by Surface Nanostructuring of SU8 Thin Films	P211 - ID 7089 Bruno ANDÒ An Optical Inclinator Exploiting Magnetic Fluids	P258 - ID 7511 Vaclav GRIM Improved 3-Phase Current Transducer
11	P11 - ID 7124 Milena SETKA Polypyrrole Based-Low-Wave-Gas Sensor Devices with Enhanced Properties to Ammonia	P114 - ID 7400 Philipp SULZER Solvent Resistant O ₂ Sensor Integrated in Pressured Flow Reactors	P164 - ID 7433 Giuseppe FIORENTINO Silicon-Quartz Microcapillary Opto-Fluidic Platform Obtained by CMOS-Compatible Die to Wafer 200 mm Dual Bonding Process	P212 - ID 7108 Bogdan SPIRIDON On-Chip Thermal Insulation Using Porous Gallium Nitride	P259 - ID 7519 George UNDERWOOD MEMS Variable Area Capacitor for Room Temperature Electrometry
12	P12 - ID 7125 Elisabetta COMINI UV Light Assisted NO ₂ Sensing by SnO ₂ /Graphene Oxide Composite	P115 - ID 7405 Manuel BASTUCK UV-Assisted Gate Bias Cycling in Gas-Sensitive Field-Effect Transistors	P165 - ID 7435 Yu-Ping CHEN Magnetic Beads Actuating and Sensing by Light Addressability	P213 - ID 7144 Christina OFFENZELLER Fully Screen-Printed Carbon Black-Only Thermocouple and the Corresponding Seebeck Coefficients	P260 - ID 7534 Lisa-Marie FALLER A Robust 3D- and Inkjet-Printed Capacitive Position Sensor in a Spectrometer Application
13	P13 - ID 7128 Stella VALLEJOS Room Temperature Ethanol Microsensors Based on Silanized Tungsten Oxide Nanowires	P116 - ID 7409 Alex MASON Rapid Non-Destructive Prediction of Water Activity in Dry-Cured Meat	P166 - ID 7436 Yu-Jing LIN A Multi-Well Thin-Si Laps and All-in-One Readout System for Ion Activity Monitor of Epithelial Cells	P214 - ID 7158 Laura PARELLADA-MONREAL Enhancement of Gas Sensing Response on WO ₃ Thin Films Processed by Direct Laser Interference Patterning	P261 - ID 7274 Aritz OZCARIZ Development of Copper Oxide Thin Film for Lossy Mode Resonance-Based Optical Fiber Sensor
14	P14 - ID 7133 Hyoun Woo KIM Synthesis and Gas Sensing Properties of Bare and ZnO (N) Decorated TeO ₂ (P) Nanowires	P117 - ID 7412 Nourdin YAAKOUBI Zinc Oxide Nanorods Wrapped with Ion-Imprinted Polypyrrole Polymer for Picomolar Selective Electrochemical Detection of Mercury II Ions	P167 - ID 7437 Po Yen LIN C3A Epithelium Cells Directly Cultured on High-Dielectric Constant Material for Light-Addressable Potentiometric Sensor	P215 - ID 7160 Eliana Maria FERNANDES VIEIRA Bi ₂ Te ₃ and Sb ₃ Te ₃ Thin Films with Thermoelectrical Properties for Flexible Thermal Sensors	P262 - ID 7298 Amparo FERRER VILANOVA Smart Sensing Fabrics for Live Bacteria Detection
15	P15 - ID 7135 Naoki YAMASAKU Response Characteristics of Silicon Microring Resonator Hydrogen Sensor	P118 - ID 7418 Hamid FARAHANI Barium Strontium Titanate Humidity Sensor: Impact of Doping on the Electrical and Structural Properties	P168 - ID 7438 Pietro SICILIANO Multi-Sensors Integration in a Human Gut-on-Chip Platform	P216 - ID 7161 Abdulaziz ALHARBI Investigation of the Carbonate Role in Selectivity of Perovskite-Structure Oxides Based Gas Sensors	P263 - ID 7300 Saskia BIEHL Novel Sensor Modules for Efficient Manufacturing Fiber Reinforced Plastics
16	P16 - ID 7138 Greja BROM A Microfabricated 4-Electrode Conductivity Sensor with Enhanced Range	P119 - ID 7445 Pietro SICILIANO 100 nm-Gap Fingers Dielectrophoresis Functionalized MOX Gas Sensors Array for Low Temperature VOCs Detection	P169 - ID 7449 Ujjal BARMAN Capillary Microvalve Actuation Using Thermal Expansion of a Trapped Air Bubble	P217 - ID 7187 Ambra FIORAVANTI W-Sn Mixed Oxides and ZnO to Detect NO _x and Ozone in Atmosphere	P264 - ID 7301 Elke MEYER-KORNBLUM Investigation of Application-Specific Thin Film Sensor Systems with Wireless Data Transmission System
17	P17 - ID 7141 Robert ZIMMERLEITER Low-Cost Mid-Infrared Hyperspectral Imaging Using a MEMS-Tunable Fabry-Pérot Filter and a Bolometer Camera	P120 - ID 7450 Gerald PÜHRINGER Design and Numerical Evaluation of a Highly Selective CMOS-Compatible Mid-IR Thermal Emitter/Detector Structure Using Optical Tamm-States	P170 - ID 7455 János RADÓ Biomechanical Tissue Characterisation by Force Sensitive Smart Laparoscope of Robin Heart Surgical Robot	P218 - ID 7194 J. Daniel PRADES Visible Light Activated Room Temperature Gas Sensors Based on CaFe ₂ O ₄ nanopowders	P265 - ID 7321 Yvonne JOSEPH Chemiresistors Based on Bis(thio)carbamate Interlinked Gold Nanoparticles
18	P18 - ID 7142 Takuya SUZUKI Operando Investigations of Rare-Earth Oxycarbonate CO ₂ Sensors	P121 - ID 7465 Maximilian MAIERHOFER Optical Ammonia Sensor for Continuous Bioprocess Monitoring	P171 - ID 7478 Paolo BELLITTI Sensor Analysis for a Modular Wearable Finger 3D Motion Tracking System	P219 - ID 7195 Nikolay SAMOTAIEV Mixed Cerium/Zirconium Oxide As a Material for Carbon Monoxide Thermocatalytic Gas Sensor	P266 - ID 7388 Aymen SENDI Effect of Nanostructured Octahedral SnO ₂ Added with a Binary Mixture P-Type and N-Type Metal Oxide on CO Detection
19	P19 - ID 7156 Celine FRENOIS Hydrogen Peroxide Vapors Detection by Surface Acoustic Wave Resonators Using Polymer-Based Materials	P122 - ID 7493 Philipp BREITGEGGER Laser Driver and Analysis Circuitry Development for Quartz-Enhanced Photoacoustic Spectroscopy of NO ₂ for IoT Purpose	P172 - ID 7496 Berk CAMLI Loop Antenna Driven Double Microwave Resonator-Based Sensors Incorporating PDMS Microchannels on Glass Substrates	P220 - ID 7208 Aurélien MAZZAMURRO Miniaturized Coplanar Waveguide for Nanostructured Magnetostrictive Multilayer Characterization	P267 - ID 7419 Caterina TRAVAN Development of Graphene Based Inks for Deposition via Inkjet Printing for Sensing Applications
20	P20 - ID 7157 Jamila BOUADEN Method to Determine the Swelling Degree in Polymers	P123 - ID 7530 Robert WIMMER-TEUBENBACHER CMOS Integrable Metal-Oxide Based CO ₂ Gas Sensing	P173 - ID 7501 Marko BAKULA Polymer-CMOS Hybrid Neural Probes for Large-Scale neuro-Electronic Interfacing	P222 - ID 7216 Hendrik SCHLICKE Tailor-Made Nanoparticles for Sensing Applications	P268 - ID 7426 Günther MAIER A Novel Device for Functional Evaluation of Gas Sensing Layers
21	P21 - ID 7167 Jan MACIOSZCZYK Modular Ceramic-Polymeric Device for Analysis of Selected Elements in Liquid Using Microplasma	P124 - ID 7571 Juan GALLARDO-GONZALEZ A Highly Sensitive impedimetric metamaterial Microsensor Based on All-Solid-State Membrane Using a New Ion-Pair Complex, [3,3'-Co(1,2-C ₂ B ₉ H ₁₁) ₂]-ClO ₄ 100N4H ⁺	P174 - ID 7509 Péter FÜRJES Hierarchically Combined Periodic SERS Active 3D Micro- and Nanostructures for High Sensitive Molecular Analysis	P223 - ID 7220 Debarun SENGUPTA Optimized Polyvinylidene Fluoride Nanofiber Webs for Flexible Energy Harvesters	P269 - ID 7427 Herbert WEITENSFELDER Noise Characterization of Vortex-State GMR Sensors with Different Free Layer Thickness
22	P22 - ID 7168 Ondrej CHMELA Comparative Studies of chemoresistive Gas Sensors Based on Multiple Nanowires and Arrays of Single Nanowires	P125 - ID 7006 Yuanwei WANG Analysis of Synthesis Mechanism of Gold Nanoparticles Using Glass Microfluidics	P175 - ID 7512 Stephan WESTERDICK Exchangeable Miniaturized Mass-Spectrometer Chip Based on Silicon Structures	P224 - ID 7237 Raquel PRUNA A Novel Transparent pH Sensor Based on a Nanostructured ITO Electrode Coated with [3,3'-Co(1,2-C ₂ B ₉ H ₁₁) ₂]-Doped Poly(Pyrrrole)	P270 - ID 7453 Noriyuki HASUIKE Surface Plasmon Resonances in Sn: In ₂ O ₃ Thin Films with Diffraction Grating
23	P23 - ID 7205 Sanjeeb TRIPATHY	P126 - ID 7028 Andreas KAINZ	P176 - ID 7518 Rudolf HEER	P271 - ID 7454 Torsten MAYR	

	Metal Oxide Methane Gas Sensor on MEMS Heater	Detection of Heat and Respiration Rate with an Organic-Semiconductor-Based Optomechanical MEMS Sensor	Preparation and Integration of a Multi-Wavelength LED Matrix for Testing Light Cell Interaction in a Novel Lens Less Optical Microscope		A Fast pH Sensor Material based on a Covalently Coupled AzabODIPY Indicator in a Crosslinked Matrix Polymer for Eddy Covariance Measurements in Oceanography
				Piezoelectric, Dielectric Capacitive and Magnetic Sensors P225 - P248	Automotive Sensors and Sensors for (Aero)space P272 - P284
24	P24 - ID 7239 Markus GRAF Sensing Characteristics of Smart Microsensor Systems for Measuring Relative Humidity in Pressurized Air	P127 - ID 7029 Manuel BÄUSCHER A Novel Low Cost Wireless Incontinence Sensor System (Screen-Printed Flexible Sensor System) for Wireless Urine Detection in Incontinence Materials	P177 - ID 7522 Marcus A. HINTERMÜLLER A Diffuser/Nozzle Pump Based on a Magnetically Actuated Flexible PCB Diaphragm	P225 - ID 7008 Shigeru TOYAMA Development of Thin Shear Force Sensor Aimed at Improving QOL for Persons with Disabilities	P272 - ID 7075 Stewart MCWILLIAM Frequency Splitting in MEMS Ring-Based Coriolis Vibrating Gyroscopes Caused by Support Non-Linearity
25	P25 - ID 7253 Carlo TIEBE Development of a Device for Staged Determination of Water Activity and Moisture Content	P128 - ID 7033 Krzysztof ADAMSKI Microfluidic Pot with Integrated Cantilever-like Force Sensors Fabricated by Inkjet 3D Printing	P178 - ID 7535 Frederico LIMA Contactless Sleep Monitoring Measurement Setup	P226 - ID 7011 Nicholas HARRIS A Printed Capacitance Sensor for Soil Moisture Measurement	P273 - ID 7098 Jean-Paul VIRICELLE Study of Two Vanadium Based Materials As Working Electrode for Developing a Selective Mixed-Potential Ammonia Sensor
26	P26 - ID 7254 Mohammad Mahdi KIAEE Inkjet-Printing of Polymer Nanocomposite for Use in Chemiresistive Gas Sensors	P129 - ID 7057 Gorachand DUTTA Commercially Fabricated Printed Circuit Board Sensing Electrodes for Biomarker Electrochemical Detection: the Importance of Electrode Surface Characteristics in Sensor Performance	P179 - ID 7537 Abdelhamid ERRACHID EL SALHI Electrochemical Biosensor for NT-proBNP Detection in Human Saliva: Heart Failure Biomedical Application	P227 - ID 7019 Min Sheng SUEN Capacitive Tactile Sensor with Concentric-Shape Electrodes for Three-Axial Force Measurement	P274 - ID 7139 Sangwon LEE A Back-Illuminated Time-of-Flight Image Sensor with SOI-Based Fully Depleted Detector technology for Lidar Application
27	P27 - ID 7255 Aapo VARPULA Sensors for Thermal Characterization of Solid and Liquid Samples by 3-Omega Method	P130 - ID 7060 Sergiy PATSKOVSKY Immunoplasmonic Markers for a Reliable Cytology Diagnosis	P180 - ID 7538 Juan GALLARDO-GONZALEZ Solid State Gas Sensors Based on Polyaniline Doped with [3,3'-Co(1,2-C2B9H11)2] - for Detection of Acetone: Diagnostic of Heart Failure Disease	P228 - ID 7025 Siya LOZANOVA Low-Offset in-Plane Sensitive Hall Arrangement	P275 - ID 7147 Alexander BERGMANN Charging-Based PN Sensing of Automotive Exhaust Particles
			Photonic Sensors and Quantum Sensors P181 - P196		
28	P28 - ID 7280 Danil ANISIMOV Metal-Containing Porphyrins As Selective and Sensible Layers for OFET Based Chemicals Sensors	P131 - ID 7064 Sebastian HUMMEL Bubble Formation in Droplet Dosing Devices for Liquid Medicine	P181 - ID 7055 Andreas TORTSCHANOFF Optimization of Si-Based Waveguides for Evanescent-Field Sensors	P229 - ID 7022 Chavdar ROUMENIN In-Plane Sensitive Magnetoresistors as a Hall Device	P276 - ID 7223 Cristina CONSANI Fof Effects on Time-of-Flight Imaging Investigated by Ray-Tracing Simulations
29	P29 - ID 7282 Celina GARCIA-HERNANDEZ Analysis of the Phenolic Content in Red Wines Using Three Multivariate Techniques: Electronic Tongue, FTIR and UV-Vis	P132 - ID 7073 Anita ZÁTONYI Towards a Transparent, Optically Compliant Microelectrode Array for Two-Photon Imaging	P182 - ID 7076 Alexander NEMECEK Universal Integrated Photodetector Platform	P230 - ID 7023 Chavdar ROUMENIN 2D in-Plane Sensitive Hall-Effect Sensor	P277 - ID 7329 Dominik BERNDT Micro-Scaled Plasma Actuator Flow Measurements by MEMS-Based Thermal Conductivity Sensors
30	P30 - ID 7283 Stefan DIETRICH Desorption and Electrical Conductivity Studies of Indium Tin Oxide Powders and Thick Films	P133 - ID 7078 Ágoston HORVÁTH Characterization of an Optically Controlled Thermal Actuator for Infrared Neural Stimulation	P183 - ID 7127 Leonardo BINETTI Graphene-Oxide and Hydrogel Coated FBG-Based Ph Sensor for Biomedical Applications	P231 - ID 7040 Matthias KAHR MOEMS Based Single Chip Lorentz Force Magnetic Gradiometer	P278 - ID 7349 Boris PODLEPETSKY Effect of Temperature and Electrical Modes on Radiation Sensitivity of MISFET Dose Sensors
31	P31 - ID 7285 Stefan DIETRICH Investigation of Electrochemical Processes in CO2 Sensitive Electrodes	P134 - ID 7082 Marco SANTONICO An Innovative Liquid Biosensor for the Detection of Molecules Involved in Pathological Conditions Affecting Both Central and Peripheral Nervous System	P184 - ID 7136 Cristina CONSANI Sensitivity Comparison of Integrated Mid-Infrared Silicon-Based Photonic Detectors	P232 - ID 7046 Pascal NICOLAY Multilayered, Package-Less SAW Sensors: Latest Developments	P279 - ID 7383 Markus BAINSCHAB An Intrinsically Pressure Insensitive Low Cost Particle Number Diluter Featuring Flow Monitoring
32	P32 - ID 7292 Matteo VALT Glyphosate Detection: an Innovative Approach by Using Chemoresistive Gas Sensors	P135 - ID 7088 Olena SYNHAIVSKA Cu2+ Sensing Realized with Gold-Coated Silicon Nanowire Ion-Sensitive Field Effect Transistor Based Biosensor	P185 - ID 7206 Jaka PRIBOSEK Estimation of the Particle Sizing Error Due to Particle Position in an Integrated PM2.5 Optical Particle Counter	P233 - ID 7048 Kean AW Printing of Soft Stretch Sensor from Carbon Black Composites	P280 - ID 7391 Adrien REYNAUD Soot Particle Classifications in the Context of a Resistive Sensor Study
33	P33 - ID 7293 Javier BURGÜÉS Three-Dimensional Gas Distribution Modelling and Localization Using Metal Oxide Semiconductor Sensors	P136 - ID 7091 James BEELEY Imaging Fluorophore-Labelled Intestinal Tissue via Fluorescence Endoscopy Capsule	P186 - ID 7231 Reyhaneh JANNESARI Hybrid Photonic Crystal-Surface Plasmon Polariton Waveguiding System for on-Chip Sensing Applications	P234 - ID 7059 Sina SADEGHPOUR Optimization in the Design and Fabrication of a PZT Piezoelectric Micromachined Ultrasound Transducer (PMUT)	P281 - ID 7413 Bahareh ZAGHARI Design and Testing of a Sensing System for Aero-Engine Smart Bearings
34	P34 - ID 7306 Andreas RECHBERGER High Precision Vibration-Type Densitometers Based on Repeated Fade-Out Measurements	P137 - ID 7129 Minoru NODA A New Type of LSPR Sensor Featuring Immobilized Liposome or Phospholipid Single Layer	P187 - ID 7234 Shinta MARIANA Pinhole micro LED Array As Point Source Illumination for Miniaturized Lensless Cell Monitoring Systems	P235 - ID 7063 Justus LANDSIEDEL Development and Characterization of Fiber-Based Pressure Sensors	P282 - ID 7431 Martin KUPPER Development and Testing of an Aerosol Sensor for Direct Measurements in Engine Exhaust
35	P35 - ID 7325 Alexey SIZOV Multiparametric H2S and NH3 Detection with Langmuir-Schaefer Organic Field-Effect Transistors	P138 - ID 7132 Cécile GHOUILIA-HOURI Normally-Off Magneto-Mechanical Microvalve for Active Flow Control	P188 - ID 7268 Aritz OZCARIZ Gas Detection Using LMR-Based Optical Fiber Sensors	P236 - ID 7121 Matthias KAHR Novel 3D Printed MEMS Magnetometer with Optical Detection	P283 - ID 7485 Marcus BAUMGART Investigating Intense Rainfall Influence on Distance Measurement with a Time-of-Flight Camera Sensor Using Optical Ray-Tracing Simulation Technique
36	P36 - ID 7341 Dinesh MADDIPATLA A Gravure Printed Flexible Electrochemical Sensor for the Detection of Heavy Metal Compounds	P139 - ID 7155 Pauline CHOMA Development of Smart Bandages by Detection of Metalloproteinase: Surface Functionalization of Nonporous Anodic Aluminium Oxide with Anti-MMP9 Antibody	P189 - ID 7432 Martin KUPPER First Steps Towards a Super-Compact in-situ Laser-Induced- Incandescence Sensor System	P237 - ID 7122 Harald STEINER 3D Printed MEMS Magnetometer Featuring Compliant Mechanism	P284 - ID 7559 David BECKER Ultrasound Measurement Technique for Validation of Cryogenic Flows
		P140 - ID 7162 Yuliya SILINA Exploring the Potential of Electroplated Chips Towards Biomedical Sensing and Diagnostics	P190 - ID 7439 Martin SÄGMEISTER Monolithically Integrated, CMOS-Compatible Sin Photonics for Sensing Applications	P238 - ID 7126 Wilfried HORTSCHITZ Borosilicate Glass MEMS Lorentz Force Magnetometer	P221 - ID 7209 Ievgeniia MAKSYMOVA Review of Lidar Sensor Data Acquisition and Compression for Automotive Applications
					Advanced Functional Materials for Sensing and Actuating P285 - P289
37	P37 - ID 7081 Philip PAUL Thermal Scanning Probe Lithography for Nano Wire and Photonic Sensors	P141 - ID 7169 Yuki HARA Microscale Xylem Sap Flow Sensor Facilitating the Simultaneous Measurement of Flow Velocity and Direction	P191 - ID 7443 Markus WELLENZOHN Design of a Photonic Crystal Defect Waveguide Biosensor Operating in Aqueous Solutions at 1.34 μm	P239 - ID 7130 Meshari ALSHARARI 3D Printed of Highly Stretchable and Sensitive Strain Sensors Using Graphene Based Composites	P285 - ID 7473 Andrea GAIARDO A New Method to Prepare Few-Layers of Nanoclusters Decorated Graphene: Nb2O5/Graphene and its Gas Sensing Properties
38	P38 - ID 7101 Taoufik MHAMMEDI Fast Enthalpy-Sensing Microsystem Operating in Continuous Flow	P142 - ID 7179 Jukyung LEE Ultra-Hypersensitive Sensor for Femtogram Range Based on Electrochemical ELISA	P192 - ID 7456 Christian WEBER Resonant Photoacoustic Detection of NO2 with and LED Based Sensor	P240 - ID 7149 Marco DIBIASE Piezoelectric Sensors for Lamb Waves' Direction of Arrival (DoA) Estimation	P286 - ID 7486 Raul FERNANDEZ-GARCIA Embroidery Textile Moisture Sensor
39	P39 - ID 7123 Ulrich SCHMID Local Separation of passivated SiC Layers from 4H-SiC Substrates	P143 - ID 7182 Jukyung LEE Hollow Pt-Functionalized SnO2 Hemipill Network for the Non-Invasive Diagnosis of Diabetes	P193 - ID 7495 Kirsi TAPPURA Enhancing the Performance of Commercial Infrared Detectors by Surface Plasmons	P241 - ID 7177 Neosha NAVAEI Analysis of Single- and Double Core Planar Fluxgate Sensors	P287 - ID 7491 Attila BONYÁR PdMS-Au/Ag Nanocomposite Films As Highly Sensitive SERS Substrates
40	P40 - ID 7189 Bram LIPS MEMS Enabled Bendable and Stretchable Silicon Circuits	P144 - ID 7199 Paulina SZYMANOWSKA Influence of the Geometry on the LTCC Integrated Electrochemical Cells Performance	P194 - ID 7024 Andreas KAINZ Equivalent Circuit Model of an Optomechanical MEMS Electric Field Strength Sensor	P242 - ID 7181 Leonardo MARTINS Analytical Modelling of Magnetic Multimedia Control Elements Based on a Single Magnetic Sensor	P288 - ID 7497 Rui IGREJA New Planar and Flexible electrochromic Devices
41	P41 - ID 7200 Nicolai MARKIEWICZ Top-Down Fabrication of Arrays of Vertical GaN Nanorods with Freestanding Top Contacts for Environmental Exposure	P145 - ID 7202 George TSEKENIS Apta- and immuno-Sensors' Performance Optimization: Comparative Studies on Surface Functionalization	P195 - ID 7032 Harald STEINER Cross-Sensitivity of an Optomechanical MEMS Transducer	P243 - ID 7196 Marco BAU' Contactless Readout of Passive LC Sensors with Compensation Circuit for Distance-Independent Measurements	P289 - ID 7031 Julien PHILIPPE Polyethylene Outgassing Study for MEMS Nuclear Radiation Sensor
					Actuators, MEMS and NEMS P290 - P302
42	P42 - ID 7270 Nursidik YULIANTO Transferable substrateless GaN LED Chips Produced by Femtosecond Laser Lift-Off for Flexible Sensor Applications	P146 - ID 7210 Lisa-Marie WAGNER Simulation and Performance Optimization of an Amperometric Histamine Detection System	P196 - ID 7097 Jan-Kees BOERMAN Improvement Methods for Colorimetric Gas Sensors to Use in Indoor Livestock Farming	P244 - ID 7198 Gabor KOVACS Responsivity Measurement of a Lorentz Force Transducer for Homogeneous and Inhomogeneous Magnetic Fields	P290 - ID 7041 Jaewoo LEE Equivalent Circuit-Based Open-Circuit Sensitivity Modelling of a Capacitive-Type MEMS Acoustic Sensor on Wafer Level
43	P43 - ID 7286 Jonas HAFNER Optimized Batch Process for Organic MEMS Devices	P147 - ID 7228 Albert ROMANO-RODRIGUEZ A Compact Robust Ows System for Biosensing of Multiple Samples		P245 - ID 7225 Ali ABDALLAH 3D Printed Capacitive Fluid Level Sensor	P291 - ID 7043 Julien VEYRUNES Dynamic Simulation of Miniature Silicon Membrane During Air Blast for Pressure Measurement
			Light Sensors and Optical MEMS/NEMS P197 - P201		
44	P44 - ID 7368 Vardan GALSTYAN Multicomponent Metal Oxide Nanostructures: Fabrication and Study of Core Issues to Improve Gas Sensing Performance	P148 - ID 7233 Martin BRANDL Microwave Oscillator Design for a SRR Based Biosensor Platform	P197 - ID 7159 Sara PIMENTA SU-8 Based Waveguide for Optrodes	P246 - ID 7226 Fabrizio CERINI Flexible Simulation Platform for Multilayer Piezoelectric MEMS Microphones with Signal-to-Noise Ratio (SNR) Evaluation	P292 - ID 7148 Miao-Hsuan CHIEN Single-Molecule Optical Absorption Imaging by Nanomechanical photothermal Sensing at Room Temperature
45	P45 - ID 7370 Yoshikazu HIRAI	P149 - ID 7250 Wenze WU	P198 - ID 7213 Wilfried HORTSCHITZ	P247 - ID 7240 Nourdin YAAKOUBI	P293 - ID 7163 Anne GHIS

	Microchannel Fabrication Using a Photo-patternable Adhesive Material for Recording Conformational Changes of KcsA Channel with the Diffracted X-Ray Tracking Method	Pixel-Wise Multispectral Sensing System Using Nanostructured Filter Matrix for Biomedical Applications	Characterization of a Micro-Opto-Mechanical Transducer for the Electro-Field Strength	Design of Surface Acoustic Wave Sensors Functionalized with Bisphenol S Based Molecules for Lead Ions Detection	Ultrathin Amorphous Carbon As Active Part of Vibrating MEMS
46	P46 - ID 7386 Tibor IZAK Fabrication of Structured Boron-Doped Diamond Films for Electrochemical Applications	P150 - ID 7276 Jörg ETTEAUER Synthesis of Fluorescein Aldehydes for the Sensitive Detection of L-Cysteine	P199 - ID 7229 Markus PILLER Uncooled Nanomechanical Photodetector for Broad Spectral Range Measurements with Picowatt Sensitivity	P248 - ID 7244 Deyong CHEN A Double-Ended Tuning Fork Based Resonant Pressure Micro-Sensor Relying on Electrostatic Excitation and Piezoresistive Detection	P294 - ID 7201 Jaqueline STAUFFENBERG Gas-Flow Sensor Based on Self-Oscillating and Self-Sensing Cantilever
47	P47 - ID 7472 Christopher TAUDT Fast crosslinking-Characterization of Waveguide-Polymers on Wafers by Imaging Low-Coherence Interferometry	P151 - ID 7281 Elisabeth KOSTAL Impedimetric Characterization of Interdigitated Electrode Arrays for Biosensor Applications	P200 - ID 7259 Bianca WIESMAYR Polydimethylsiloxane(PDMS) Waveguide Sensor Detecting Fluid Flow Velocity by Mimicking the Fish Lateral Line Organ		P295 - ID 7287 Miguel SOLSONA Nano-Porosity Determined by Ion Concentration Polarization
48	P48 - ID 7520 Florentyna SOSADA-LUDWIKOWSKA Transfer Printing Technology for Fabricating Chemical Sensors Based on Tin Dioxide Nanowires	P152 - ID 7331 Marta KLUBA Wafer-Scale Integration for Semi-Flexible Neural Implants Miniaturization	P201 - ID 7291 Frederic ROGER Systematic Electro-Optical Study of Photodiodes in Intrinsic Material (Lowly Doped) with Backend Stack Optimization		P296 - ID 7294 Manuel DORFMEISTER A Novel Bi-Stable MEMS Membrane Concept Based on a Piezoelectric Thin Film Actuator for Integrated Switching
49	P49 - ID 7525 Blaine UNDERWOOD Plasma Treatment Effects on Nanocrystalline ZnO Thin-Film Transistors	P153 - ID 7332 Salvatore SURDO Cavitation-Assisted Micromixing for Polymeric Nanoparticle Generation			P297 - ID 7342 Binu B. NARAKATHU Design, Simulation and Fabrication of a Novel MEMS Based Pulsometer
50	Late News Posters P50 - P51 P50 - ID 7603 Jan ERFKAMP Detection of Ammonia Based on Stimuli-Responsive Hydrogels				P298 - ID 7474 Cláudia COELHO High Frequency FM MEMS Accelerometer Using Piezoresistive Resonators
51	P51 - ID 7604 Yiyang LIANG Synthesis of Copper Nanoparticles using Gas Microfluidic Device				P299 - ID 7513 David TORRES Large Out-of-Plane Deflection MEMS Actuators for Optical Applications
52	System Integration and Packaging, Reliability Modelling and Simulation P52 - P64 P52 - ID 7007 Ali ROSHANGHIAS The Realization of Redistribution Layers for FOWLP by Inkjet Printing				P300 - ID 7532 Vladislav KHOMENKO Silicon-on-Nothing IR-Emitter for Gas Sensing Applications
53	P53 - ID 7050 Alexey VASILIEV Prototype System for the Detection of Volatile Hydrocarbons in Water				P301 - ID 7552 Stefan SCHIERLE Creep Compensation in an Electrostatic PDMS-Membrane Actuator with Flexible Silver Nanowire Electrodes
54	P54 - ID 7104 Cecilia CARBONELLI System Level Simulations of an Open Photo-Acoustic Gas Sensor				P302 - ID 7030 Manuel WALCH Concave Diffraction Gratings by High-Precision Injection Moulding
55	P55 - ID 7172 Samir CERIMOVIC Thermal Flow Sensor for Non-Invasive Measurements in HVAC-Systems				P303 - ID 7261 Amparo FERRER-VILANOVA Silk Fibroin Pads for Whole Blood Glucose Determination
56	P56 - ID 7180 Thomas GLATZL Finite Element Simulation and Characterization of a Thermal Flow Sensor Based on Printed Circuit Board Technology for Various Fluids				
57	P57 - ID 7305 Timo SALPAVAARA Simulation of the Readout Methods for Inductively Coupled High-Frequency Resonance Sensors				
58	P58 - ID 7322 Nikolay SAMOTAEV Technology for SMD Packaging MOx Gas Sensors				
59	P59 - ID 7339 Binu B. NARAKATHU Modelling and Simulation of Microplasma Discharge Device for Sterilization Applications				
60	P60 - ID 7364 Georg BRUNNHOFER Modelling a Holographic Particle Counter				
61	P61 - ID 7366 Junbo WANG An Analytical Method for Modelling Pull-In Effect During Anodic Bonding				
62	P62 - ID 7377 Christos TSAMIS A Disposable Inkjet-Printed Humidity and Temperature Sensor Fabricated on Paper				
63	P63 - ID 7536 Toky Harrison RABENIMANANA Nonlinear Analytical Model of Two Weakly Coupled MEMS Cantilevers for Mass Sensing Using Electrostatic Actuation				
64	P64 - ID 7556 Claudio FALCO Membrane Deflection and Stress in Thermal Flow Sensors				
65	Smart Systems and Wireless Sensor Networks P65 - P72 P65 - ID 7042 Theresa LOSS Load and Vibration Monitoring of Wind Turbine Blade Tips Using 3D Accelerometers				
66	P66 - ID 7090 Marco SANTONICO A Gas Sensor with BLE Connectivity for Wearable Applications				
67	P67 - ID 7279 Michele PENZA Wireless Sensors Network Monitoring of Saharan Dust Events in Bari, Italy				
68	P68 - ID 7320 Elena ESPOSITO Enabling Citizen Science with a Crowdfunded Validated Smart Air Quality Monitor				
69	P69 - ID 7350 Luca VOLLERO An Open-Source Smart Sensor Architecture for Edge Computing in IoT Applications				
70	P70 - ID 7355 Theodor HILLEBRAND SCIPIO - Scientific Purification Indicator				
71	P71 - ID 7380 Alexandro CATINI Ultra Low Power Wireless Sensor Network for Pink Iguanas Monitoring				
72	P72 - ID 7572 Edgar RIPOLL-VERCELLONE An Add-on Electronic Device That Converts Mechanical Gas Meters Into Electronic Ones				
	Embedded Systems and Signal Processing				

73	P73 - ID 7096 Marko GAZIVODA <i>A Programmable 3-Channel Acoustic Wake-Up Interface Enabling Always-on Detection of Underwater Events Within 20 μA</i>
	Energy Harvesting P74 - P87
74	P74 - ID 7115 Tizian SCHNEIDER <i>Influence of Sensor Network Sampling Rate on Multivariate Statistical Condition Monitoring of Industrial Machines and Processes</i>
75	P75 - ID 7326 Patrick PELGRIMS <i>Sensor and Embedded Control System for Liquid Crystal Implantable Eye Lens</i>
76	P76 - ID 7359 Sascha HEINSEN <i>On-Line Error Correction in Sensor Interface Circuits by Using Adaptive Filtering and Digital Calibration</i>
77	P77 - ID 7464 Ferran REVERTER <i>Microcontroller-Based Seat Occupancy Detection and Classification</i>
78	P78 - ID 7003 Philipp DORSCH <i>A Two-Stage Energy Extraction Circuit for Energy Harvesting in Non-Sinusoidal Excited Environments</i>
79	P79 - ID 7049 Matthew EVANS <i>Electromechanical Modelling of a Piezoelectric Stack Energy Harvester</i>
80	P80 - ID 7290 Sofiane BOUHEDMA <i>Simulation and Characterization of a Nonlinear Dual-Frequency Piezoelectric Energy Harvester</i>
81	P81 - ID 7361 Bahareh ZAGHARI <i>Oil-Cooled Thermoelectric Energy Harvesting for Aero-Engine Sensing System</i>
82	P82 - ID 7442 Christos TSAMIS <i>Influence of Carbon Quantum Dots on the Electrical Performance of Triboelectric Generators</i>
83	P83 - ID 7468 Takayuki FUJITA <i>Flatness Improvement of Double-Sided Magnetic Film for Narrow Gap Electromagnetic Energy Harvester</i>
84	P84 - ID 7475 Edgar RIPOLL-VERCELLONE <i>A High-Efficiency RF Harvester with Maximum Power Point Tracking</i>
85	P85 - ID 7476 Ferran REVERTER <i>Buck Converter for Low-Power PV Modules: a Comparative Study</i>
86	P86 - ID 7479 Zheng Jun CHEW <i>Threshold Voltage Control to Improve Energy Utilization Efficiency of a Power Management Circuit for Energy Harvesting Applications</i>
87	P87 - ID 7490 János RADÓ <i>Low-Frequency Piezoelectric Accelerometer Array for Fully Implantable Cochlear Implants</i>
	Late News Posters P88 - P103
88	P88 - ID 7605 Soon-Hyung KWON <i>Rain Drop Counting Measurement Sensor with Energy Harvesting Technology of Water Motion</i>
89	P89 - ID 7606 Karlheinz KELLNER <i>A New Integrated Multi-Pathogen in situ Detection Platform Using Electrochemical Impedance</i>
90	P90 - ID 7607 Thomas POSNICEK <i>Highly Integrated and Mobile Sensor System for Dissolved Organic Matter in Stream Ecosystems</i>
91	P91 - ID 7608 Ayoub LAHLALIA <i>Enhanced Sensing Performance of Integrated Gas Sensor Devices</i>
92	P92 - ID 7609 Krzysztof ADAMSKI <i>3D Printed Flowmeter Based on Venturi Effect with Integrated Pressure Sensors</i>
93	P93 - ID 7611 Apichat IMYIM <i>Biocompatible Film Sensor Containing Red Radish Extract for Meat Spoilage Observation</i>
94	P94 - ID 7612 Zhan ZHAO <i>Design of a Solid-State Wind Sensor Based on Cylinder Diametrical Pressure Difference for Boundary Layer Meteorological Observation</i>
95	P95 - ID 7613 Marcos DUQUE <i>Towards the Monolithic Integration of Converter Circuitry and Piezoelectric MEMS Energy Harvesters</i>
96	P96 - ID 7615 Jan PEKÁREK <i>A New Method for 2D Materials Properties Modulation by Controlled Induced Mechanical Strain</i>
97	P97 - ID 7616 Philipp MEHNE <i>Energy Income Estimation for Solar Cell Powered Wireless Sensor Node</i>
98	P98 - ID 7617 Herbert ENSER <i>Capacitive Contact Sensor on an Elastic Polymer Sheet</i>
99	P99 - ID 7618 Yvonne JOSEPH <i>Chemiresistive Properties of a Novel Composite Comprised of ITO-Nanoparticles and 1,8-Diaminooctane</i>
100	P100 - ID 7620 Gustavo GONCALVES DALKIRANIS <i>Thermoelectric Microsensor Based on Ultrathin Si Films</i>
101	P101 - ID 7621 Anastasios ECONOMOU <i>Microfabricated Au-film Sensors for the Voltammetric Determination of Hg(II)</i>
102	P102 - ID 7585 Bruno RENTE <i>Enhancing the Sensitivity of SMS Fiber Sensors by the Use of High Refractive Index Coatings</i>
103	P103 - ID 7586 Bruno RENTE <i>Optimized Multimode Interference Fiber Based Refractometer in a Reflective Interrogation Scheme</i>