

Accepted papers of the EUROSENSORS2016 Conference

Paper Number	Paper title	Authors
8004	Acceleration Sensor with Self-Sufficient Energy Supply	Dirk Zielke, Rico Schidler, Timo Göstenkors
8006	A Monolithic Silicon nanocrystal Photonic Transducer for a Real-Time Biomarker Detection	Chul Huh, Jae Gab Lim, Wan-Joong Kim, Joo Yong Sim, Bong-Kyu Kim
8008	Electrodeposited ZnO Thin Film on Twin Sensor QCM for Sensing of Ethanol at Room Temperature	Takeshi Ito, Noriyoshi Yamanishi, Naoto Asai, Tomohiro Shimizu, Shoso Shingubara
8009	Forty Years of Adventure with Semiconductor Gas Sensors	János Mizsei
8010	Thermal-Electronic Integrated Circuits Using Thermally Sensitive VO ₂ MIT Material	János Mizsei , Jyrki Lappalainen
8011	Designing Highly Specific Small Molecule Biosensors by Protein Design	Srivatsan Raman
8014	Low-Cost Silver Screen-Printed Electrowetting on Dielectrics Structure for Optofluidic Switches	Andreas Tröls, Herbert Enser, Bernhard Jakoby
8015	2D Silicon Magnetometer	Siya Lozanova, Svetoslav Noykov, Chavdar Roumenin
8020	A Position Free Cantilever-Based MEMS DC Current Sensor Device Applicable to Two-Wire DC Appliances	Dongfang Wang, Weikang Xian, Xiaodong Li
8021	A Novel Miniaturised Sensor for Combined Static and Dynamic Pressure Measurements in Harsh Environments	Chrsitof Zarfl, Peter Schmid, Ulrich Schmid
8022	Developing Biometric Passive Recognition Sensor with a Shuttle Roller Coaster Structure Based on Wrist Vein Applicable to Wearable Devices	Dongfang Wang, Yuanhang Xu, Huan Liu
8024	Wall Shear Stress Measurement Based on a Carbon Nanotube Sensor	Zhi Wu , Hong Lei Bai , Wen Jung Li , Yu Zhou
8025	A Novel Neural Probe for Simultaneous Electrical Recording and Local Thermal Control in Sleep Spindle Oscillation Studies	Ágoston Horváth , Kinga Kocsis , Marcell Csernai , Péter Barthó , Zoltán Fekete
8027	Automatic Bridge-Based Interface for Differential Capacitive Full Sensing	Giuseppe Ferri, Francesca Romana Parente, Vincenzo Stornelli, Gianluca Barile
8028	Fabrication and Characterization of Fast Response H ₂ Sensor Based on Pd-Pt Core-Shell nanoparticles Coated Si Nanowires Cluster	Kamrul Hassan, GwiY-Sang Chung
8030	Fabrication and Characterization of Self-Powered Active Hydrogen Sensor Based on Triboelectric nanogenerator	A.S.M. Iftekhhar Uddin, GwiY-Sang Chung

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8031	Synthesis and Characterization of the PVDF-BTO Nanocomposites with the Employment of RGO Sheets for Flexible Energy Harvesters	Usman Yaqoob, GwiY-Sang Chung
8038	Influence of Optical Fiber Coatings on the Long-Term Accuracy of Interferometric Fiber-Optic Current Sensors	Miklós Lenner, Lin Yang, Andreas Frank, Klaus Bohnert
8039	Dynamic Simulations of a Piezoelectric Driven MEMS Micropump	Eric Chappel, Simon Fournier
8040	Micromachined Gas Sensors Based on Au-functionalized SnO ₂ nanorods Directly Integrated Without Catalyst Seeds via AA-CVD	Stella Vallejos , Soultana Selina , Fatima Ezhara Annanouch , Isabel Gracia , Eduard Llobet , Chris Blackman
8041	Devices for Screening and Monitoring of Tumors Based on chemoresistive Sensors	Giulia Zonta , Gabriele Anania , Barbara Fabbri , Andrea Gaiardo , Sandro Gherardi , Alessio Giberti , Nicolò Landini , Cesare Malagù , Vincenzo Guidi
8043	Design of a Passive Silicon Flow Regulator Using a Genetic Algorithm	Dimitry Dumont-Fillon , Eric Chappel , Melanie Hannebelle , Harald van Lintel
8044	Road Surface Classification Using Automotive Ultrasonic Sensor	Aleksandr Bystrov , Edward Hoare , Thyu-Yung Tran , Nigel Clarke , Marina Gashinova , Mikhail Cherniakov
8045	Fiber Optic Sensors for Static and Fatigue Test of a Composite Winglet	Maria Chiara Noviello , Monica Ciminello , Francesco Amoroso
8046	Effect of N-Type Doping of SnO ₂ and ZnO on Surface Sites and Gas Sensing Behaviour	Artem Marikutsa, Marina Rumyantseva, Alexander Gaskov
8047	Printed Piezoelectric Materials for Vibration-Based Damage Detection	Hélène Debéda , Claude Lucat , Valérie Budinger
8048	Glucose Sensing by an Enzyme-Modified ZnO-Based FET	Mitsuaki Yano, Yuina Mori, Shigehiko Sasa, Yuichi Hirofuji, Kazuto Koike
8049	A Degradation Preventing Method for the Organic Material in Gas Sensing Application by Using CMOS Submicron Wire Sensor	I-Shun Wang, Wen-Yu Chuang, Sou-Peng Yeh, Chih-Ting Lin
8050	Chemical Sensor Array Modelling Using a Multivariable Partial Differential Equations: Comparison Between Conducting Polymer and Metal Oxide Based Resistive Sensors	Abdelaziz Abbas
8052	RF Sputtering of ZnO (002) Thin Films on Top of 3C-SiC-on-Si (100) Substrates for Low Cost Piezoelectric Devices	Visakh Sasi, Abid Iqbal, Kien Chaik, Philips Tanner, Alan Iacopi, Faisal M. Yasin

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8055	A Rolling Sphere Viscometer for Thin Fluid Films Using Magnetic Actuation and Readout	Stefan Clara, Wolfgang Hilber, Bernhard Jakoby
8057	Modeling of a Highly Optimizable Vertical-Cavity Thermal Emitter for the Mid-Infrared	Gerald Pühringer, Bernhard Jakoby
8058	Characterization of Temperature Gradients on MEMS Acceleration Sensors	Cristian Nagel , Frederik Ante , Martin Putnik , Johannes Classen , Jan Mehner
8059	Evanescence Wave Absorption Based S-Shaped Fiber-Optic Biosensor for Immunosensing Applications	Shraddha Chauhan, Nirmal Punjabi, Dinesh Sharma, Soumyo Mukherji
8060	Multi-Parametric Point of Care Device for Allergen-Specific IgE Detection in Veterinary Applications	Jorge Elizalde , Kepa Mayora , Luis Rivas , Antonio Sanz , Tarson Tolentino-Cortez , Gabriel Barreda-Gómez , María Tijero
8061	Silica nanoparticles Assisted Electrochemical Biosensor for the Detection and Degradation of Escherichia coli Bacteria	Marion Mathelié-Guinlet , Ibtissem Gammoudi , Laure Beven , Fabien Moroté , Marie-Hélène Delville , Christine Grauby-Heywang , Touria Cohen-Bouhacina
8062	All-Inkjet-Printed Dissolved Oxygen Sensor on Flexible and Plastic Substrates	Ana Moya , Enrico Sowade , Francisco Javier Del Campo , Eloi Ramon , Rosa Villa , Reinhard Baumann , Gemma Gabriel
8063	Polymer Micro Chips for the Analysis of Calcification Risk	Philipp Maurer , Steffen Gräber , Wilhelm Jannen-Dechent , Werner Karl Schomburg
8064	ZnO-Based Gas Microsensors Sensitive to CO at Room Temperature by photoactivation	Stella Vallejos , Isabel Gracia , Eduard Figueras , Naděžda Pizurova , Jaromir Hubalek , Carles Cané
8065	Resonant Pull-in of High-Q MEMS Oscillators with Arbitrary Closed-Loop Phase Shift	Alexis Brenes , Jérôme Juillard , Filipe Vinci Dos Santos
8066	Analysis of Sensor Installation Methods in Impedance-Based SHM Applications	Ricardo Da Silveira, Leandro Campeiro, Fabricio Baptista
8067	Highly Sensitive Surface Plasmon Resonance-Based Optical Fiber Multi-Parameter Sensor	Jesús Salvador Velázquez-González , David Monzon-Hernandez , Fernando Martínez-Piñón , Iván Hernández-Romano
8070	PZT Actuated MEMS Membrane Characterization and Post Simulation for Digital Loudspeaker Array Application	Fabrice Casset , Bruno Laroche , Brigitte Desloges , Quentin Leclere , Richard Morisson , Yohann Bohard , Jean-Paul Goglio , Stephane Fanget
8071	Characterization and Performance Estimation of a MEMS Spirometer	Sahar Habibiabad , Yesim Dogrusoz , Mustafa Beyaz

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8072	Development of Haptic Button Based on Electro Active Polymer Actuator	Pauline Poncet , Fabrice Casset , Antoine Latour , Fabrice Domingues Dos Santos , Romain Gwoziecki , Stephane Fanget
8073	MOEMS Vibration Sensor with Organic Semiconductor Readout	Andreas Kainz , Wilfried Hortschitz , Harald Steiner , Yi-Hong Hong , Chao-Hsuan Chen , Hsiao-Wen Zan , Hsin-Fei Meng , Thilo Sauter , Franz Keplinger
8074	Lorentz Force Magnetic Sensor Based on a Thin-Film Piezoelectric-on-Silicon Laterally Vibrating Micromechanical Resonator	Sagnik Ghosh, Joshua E.-Y. Lee
8075	An Accurate Analytical Squeeze-Film Model for Lateral MEMS/MOEMS Oscillators	Andreas Kainz , Wilfried Hortschitz , Franz Keplinger
8076	Influence of Holes on the Damping of Lateral MEMS/MOEMS Oscillators	Andreas Kainz , Wilfried Hortschitz , Franz Keplinger
8077	Direct Torsion Actuation of Bulk PZT Beams Using Directional Interdigitated Electrodes	Inbar Grinberg, Nadav Maccabi, Adne Kassie, Shai Shmulevich, David Elata
8078	Hybrid Microsensors for Low-Temperature Detection of CO	Matteo Tonezzer , Thi Thanh Le Dang , Salvatore Iannotta
8081	Bulk PZT Actuator for Parallel Out-of-Plane Motion: the Drastic Advantage of Torsion Deformation Over Bending Deformation	Nadav Maccabi, Inbar Grinberg, Adne Kassie, Shai Shmulevich, David Elata
8082	Switched Ratiometric Lock-in Amplifier Enabling Sub-Ppm Resolution	Giacomo Gervasoni , Marco Carminati , Giorgio Ferrari
8083	Few-Layer graphene Langmuir-Schaefer nanofilms for H ₂ Gas Sensing	Stefan Luby, Dmytro Kostiuk, Maksym Demydenko, Matej Jergel, Peter Siffalovic, Jan Ivanco, Eva Majkova
8084	MEMS Time-of-Flight Mass Spectrometer for Gas Mixture Analysis	Sébastien Vigne, Hadley Videlier, Romain Mahieu, Charles-Marie Tassetti, Laurent Duraffourg, Thomas Alava, Frédéric Progent
8085	A CMOS Smart Temperature Sensor with One Homogeneous Delay Line and Curvature Compensation	Chun-Chi Chen, Zong-Yi Guo, Ping-Hung Liu
8086	Tunability of Piezoelectric MEMS Ring Resonator Based Filter	Boris Svilicic , Enrico Mastropaolo , Rebecca Cheung
8087	Flexible Ion Sensors for Bodily Fluids	Van Anh Thi Dam
8088	Microwave Position Sensor for Hydraulic Drives	Albert Dorneich, Markus Fritton
8089	Boosting the Quality Factor of Low Impedance VHF Piezoelectric-on-Silicon Lateral Mode Resonators Using Etch Holes	Cheng Tu, Joshua En Yuan Lee

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8091	On-Chip Feedthrough Cancellation Technique for Enhanced Electrical Characterization of a Piezoelectric MEMS Resonator in Water	Abid Ali, Joshua E.-Y Lee
8092	Characterization of 0.18- μ m CMOS MEMS Capacitive Ultrasonic Sensors for Fast Photoacoustic Imaging	Yi-Chia Shih, Michael Lu
8093	Electrochemical Sensors Based on MoS ₂ and its Composite for Biochemical Sensing Applications	Hyeong-U Kim, Hye Youn Kim , Atul Kulkarni , Chisung Ahn , Mingu Kim , Min-Ho Lee , Taesung Kim
8094	Simulation and Modelling of the Drive Mode Nonlinearity in MEMS Gyroscopes	Martin Putnik , Stefano Cardanobile , Cristian Nagel , Peter Degenfeld-Schonburg , Jan Mehner
8095	Spectroscopic Gas Sensing Using a Silicon Slab Waveguide	Christian Ranacher , Cristina Consani , Franz Josef Maier , Ursula Hedenig , Reyhaneh Jannesari , Ventsislav Lavchiev , Thomas Grille , Bernhard Jakoby
8098	Gas Sensing Properties of In ₂ O ₃ Cubes Prepared by a Hydrothermal Method	Sergio Roso , Toni Vilic , Atsushi Urakawa , Eduard Llobet
8099	Substrate Transfer Technology for Stretchable Electronics	Shivani Joshi , Sourush Yazdi , Ronald Dekker
8100	Silicon Nanowires Assembling with polypyrrole for Organic Pollutants Sensing	Samia Belhousse, Fatma Zohra Tighilt, Sabrina Sam, Kahina Lasmi, Nour Eddine Gabouze
8101	Frequency Selective Alcohol Sensing Performance of Pd/TiO ₂ Nanotube Array/Ti (Mim) Capacitive Devices	Partha Bhattacharyya, Basanta Bhowmik
8104	Precision Recess of AlGa _N /Ga _N with Controllable Etching Rate Using ICP-RIE Oxidation and Wet Etching	Robert Sokolovskij , Jianwen Sun , Fabio Santagata , Elina Iervolino , Shunfeng Li , Guoyi Zhang , Pasqualina Sarro , Guoqi Zhang
8107	A 2:1 Mux Based on Multiple MEMS Resonators	Md Abdullah Al Hafiz, Lakshmoji Kosuru, Mohammad Younis, Hossein Fariborzi
8109	New Optical Approach of SAW Delay Line Characterization	Lyes Djoumi , Dame Fall , Meddy Vanotti , Nikolay Smagin , Etienne Herth , Marc Duquennoy , Mohammadi Ouaftouh , Virginie Blondeau-Patissier
8110	Surface Acoustic Wave Sensors for PM _{2.5} and PM ₁₀ Concentration	Lyes Djoumi , Virginie Blondeau-Patissier , Meddy Vanotti , Jean-Cristophe Appert-Colin , Dominique Thomas , Laurent Fertier
8112	Enhanced Photoelectrochemical Sensors with Hybrid Nanocomposites for Multichannel Detections	Zhao Yue , Shuang Zhao , Wolfgang Parak

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8117	Comparing OBD and Can Sampling on the Go with the SensorHUB Framework	David Sik , Tamas Balogh , Peter Ekler , Laszlo Lengyel
8118	A Hydrogen Pressure Sensor Based on Bulk-Micromachined Si Strain Gauges	Jinwoong Kim , Kibeom Kim , Jonghyun Kim , Seungwoo Ham , Namho Bae , Myungkyun Park , Namki Min
8119	A Novel Magnetostrictive/DETF-Quartz Composite Resonator for Ultra-Sensitive DC Magnetic Field Detection	Cong Chen , Xiaojing Mu , Yong Wang , Yu Chen , Zhengguo Shang , Feng Zhang , Shaoxu Dou , Xianming He , Hong Zhou
8120	Magnetic Field Detection with an Advanced FBG-Based Sensor Device	Vivien Schukar, Enrico Köppe, Detlef Hofmann, Anja Westphal, Mario Sahre, Xin Gong, Uwe Beck, Matthias Bartholmai
8122	PSPPG: Polarization Sensitive Photo-Plethysmography	Supriya Chakraborty, Deepak Mishra, Mukul Sarkar
8123	Chip Temperature Influence on Characteristics of MISFET Hydrogen Sensors	Boris Podlepetsky , Marina Nikiforova , Andrew Kovalenko
8125	Pulsed UV Light Activated Gas Sensing in Tungsten Oxide Nanowires	Oriol Gonzalez, Tesfalem Welearegay, Raul Calavia, Eduard Llobet, Xavier Vilanova
8126	Intravascular Ultrasound at the Tip of a Guidewire: Concept and First Assembly Steps	Ronald Stoute , Marcus Louwerse , Vincent Henneken , Ronald Dekker
8127	A Very High Voltage Withstanding Silicon Strain Gauge Fabricated Using Si on Glass Wafers	Kibeom Kim , Jinwoong Kim , Jonghyun Kim , Chanwon Park , Namho Bae , Namki Min
8128	Biocompatible Packaging of an Epicardial Accelerometer for Real-Time Assessment of Cardiac Motion	Luigi Brancato, Tristan Weydts, Tatiana Dimiaux, Paul Herijgers, Robert Puers
8129	Cation Distribution in Ni-Mn-O Spinel System for the Application of IR Sensors	Lee Sunggap, Lee Dongjin, Kim Kyeongmin, Park Miri
8131	Resilience to Vibration of a Tuning Fork MEMS Gyroscope	Alexandra Koumela, Christophe Poulain, Carole Le Goc, Thierry Verdot, Loïc Joet, Patrice Rey, Audrey Berthelot, Guillaume Jourdan
8132	In situ Pesticide Detection in Food Processing by Microwave Transduction Combined with Molecularly Imprinted Polymers	Jerome Rossignol , Elias Bou-Maroun , Philippe Cayot , Didier Stuerga , Celine Lafarge , Regis Gougeon
8133	Micro-USB Connector Pins As Low-Cost, Robust Electrodes for Microscale Water Conductivity Sensing in Oceanographic Research	Marco Carminati , Valerio Stefanelli , Paolo Luzzatto-Fegiz

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8135	Flexible Flow Sensors for Air Conditioning Systems Based on Printed Thermopiles	Harald Steiner , Samir Cerimovic , Thomas Glatzl , Franz Kohl , Marlies Schlauf , Thomas Schalkhammer , Franz Keplinger , Thilo Sauter
8137	H2S Sensing Properties of Wo3 Based Gas Sensor	Barbara Urasinska-Wojcik, Tim Vincent, Julian Gardner
8139	Electrostatic Feedback Actuation for Enhancing the Dynamic Range of MOEMS Vibration Sensors	Wilfried Hortschitz , Andreas Kainz , Harald Steiner , Franz Kohl , Stefan Zemann , Johannes Schalko , Thilo Sauter , Franz Keplinger
8140	A Multi-Nozzle Electrospray Emitter for Pneumatically Assisted Electrospray in LC-MS Analysis	Ludger Kempen , Ralf Hartmer , Andreas Brekenfeld , Armin Holle , Walter Lang
8141	Glycated Hemoglobin Detection in Clinical Blood Samples by Using CMOS Biosensor Chip	I-Shun Wang, Chih-Ting Lin
8142	A Silicon-Based MEMS Vibrating Mesh Nebulizer for Inhaled Drug Delivery	Oskar Zbigniew Olszewski , Ronan Macloughlin , Alan Blake , Ruth Houlihan , Mike O'Neill , Alan Mathewson , Nathan Jackson
8144	Nickel Doped Wo3 nanoneedles Deposited by a Single Step AACVD for Gas Sensing Applications	Toni Vilic, Eduard Llobet
8146	Optoelectronic Hydrogen Sensor Based on Pd-Oxide-InP Structure	Alexander Kapralov, Albert Imenkov, Vadim Shutaev, Yury Yakovlev
8150	Inexpensive Polyester Sheet Based Waveguides for Detection of Cardiac Biomarker, myeloperoxidase	Anjali Khatri, Nirmal Punjabi, Arvind Dhawangale, Soumyo Mukherji
8151	Impact of a Non-Linear Transfer Characteristic on the Evaluation of Static Displacements with a MOEMS Transducer	Harald Steiner , Wilfried Hortschitz , Andreas Kainz , Michael Stifter , Arthur Jachimowicz , Johannes Schalko , Franz Keplinger , Franz Kohl
8152	Influence of Electrodes Polarization on the Response of a Soot Resistive Sensor	Didier Grondin , Philippe Breuil , Jean-Paul Viricelle , Philippe Vernoux
8153	Piezoresistive Position Microsensors with Ppm Accuracy	Vladimir Stavrov , Galina Stavreva , Asen Shulev
8154	Control of a Hydrogel-Based Thermal Actuator in Closed-Loop Configuration	Kangfa Deng, Gerald Gerlach
8155	Composition Optimization Doped Silica Films to Amines Detection	Sergey Krutovertsev, Alla Tarasova, Olga Ivanova, Larisa Krutovertseva
8157	RF Characterization of Intracellular microalgae Lipid Accumulation	Abdelhatif El Fellahi , Thierry Bore , Pierre Bodenes , Sakina Bensalem , Bruno Le Pioufle , Filipa Lopes , Emile Martincic , Olivier Francais
8158	Label-Free and Electrochemical Detection of Nucleic Acids Based on Isothermal Amplification in Combination with Solid-State Ph Sensor	Miyuki Tabata , Yurika Katayama , Fahmida Mannan , Ayaka Seichi , Kohji Suzuki , Tatsuro Goda , Akira Matsumoto , Yuji Miyahara

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8159	Sensing Platform for Theoretical and Experimental Analysis of Blood Cell Mechanical Stress and Activation in microfluidics	Markus Gusenbauer , Giulia Mazza , Martin Brandl , Thomas Schrefl , Renata Tothova , Ivan Cimrak
8160	AMR Yokeless Current Sensor with Improved Accuracy	Pavel Mlejnek, Pavel Ripka
8161	Synchronous OEIC Integrating Receiver for ORGA Applications	Carlos Sanchez-Azqueta , Bernhard Goll , Santiago Celma , Horst Zimmermann
8162	A Self-Organisation Synthesis Approach for Bacteria Molecularly Imprinted Polymers	Annette Schnettelker, Peter Lieberzeit
8163	Electrostatic Actuation to Counterbalance the Manufacturing Defects in a MEMS Mass Detection Sensor Using Mode Localization	Vincent Walter, Gilles Bourbon, Patrice Le Moal, Najib Kacem, Joseph Lardies
8164	Molecular Imprinting Studies for Developing QCM-Sensors for Bacillus Cereus	Eva Spieker, Peter Lieberzeit
8166	A Low-Cost Deformable Tactile Sensor Using Triaxial Hall Sensors	Hongbo Wang , Gregory De Boer , Mazdak Ghajari , Ali Alazmani , Robert Hewson , Peter Culmer
8167	Development of a Permanently Installed Ultrasonic Transducer System Using Gallium Orthophosphate for Velocity Measurement and Wall-Thickness Gauging at Up to 580°C	Mario Kostan , Abbas Mohimi , Channa Nageswaran , Tat-Hean Gan , Luiz Wrobel , Cem Selcuk
8168	Sensing with Wo3 in Comparison to In2O3 and SnO2	Anna Staerz, Udo Weimar, Nicolae Barsan
8169	Blend electrospinning of Dye-functionalized Chitosan and polycaprolactone: Towards Biocompatible Ph-Sensors	Ella Schoolaert, Richard Hoogenboom, Karen De Clerck
8170	Hot-Wire MEMS Sensor for Wall-Shear Stress and Flow Direction Sensing	Cécile Ghouila-Houri , Jean-Claude Gerbedoen , Julien Claudel , Quentin Gallas , Eric Garnier , Alain Merlen , Romain Viard , Abdelkrim Talbi , Philippe Pernod
8171	Contact Position Microsensors with Travel Ranges Between 50µm and 2mm	Vladimir Stavrov , Galina Stavreva , Asen Shulev
8172	High Resolution Nano-Gap Pirani Sensor for Wide Pressure Range Around Atmospheric Pressure	Julien Claudel , Cécile Ghouila-Houri , Jean-Claude Gerbedoen , Quentin Gallas , Alain Merlen , Omar Elmazria , Romain Viard , Abdelkrim Talbi , Philippe Pernod
8173	Active Magnetic Levitation and 3D-Position Measurement for a Ball Viscometer	Friedrich Feichtinger, Stefan Clara, Alexander Niedermayer, Thomas Voglhuber"brunnmaier, Bernhard Jakoby

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8174	Sensing Movable Receiving Coils by Detection of AC Current Changes on the Primary Side of a Multi-Coil System	Bilel Kallel , Olfa Kanoun , Hafedh Trabelsi , Maurice Roes
8175	Design and Calibration of a Novel in-situ Soot Sensor for Diesel Engines	Zhen Zhang, Richard Fuehrhapter, Harald Waschl, Luigi Del Re
8176	Label Free Detection of Lead(II) Ion Using Differential Phase Modulated Localized Surface Plasmon Resonance Sensors	Chi-Man Wu, Guangyu Qiu, Anton Law, Siu-Pang Ng
8177	Investigation and Analysis of Zinc Phthalocyanine Films for Resonant Gas Sensor Applications	Amani Hamid
8178	Novel Colorimetric Sensor for Cupric Reducing Antioxidant Capacity (CUPRAC) Measurement	Ekaterina Krylova , Nataliya Gavrilenko , Nadezhda Saranchina , Mikhail Gavrilenko
8180	Geometric Effect on Nonlinearity of Awl-Shaped Serpentine Springs	Hui-Min Chou , Meng-Ju Lin , Rongshun Chen
8182	Spark Discharge Synthesis of Semiconductor nanoparticles for Thick-Film Metal Oxide Gas Sensors	Alexey Efimov , Ivan Volkov , Viktor Ivanov , Andrey Varfolomeev , Alexandr Pisiakov , Alexandr Lagutin , Thomas Maeder
8183	Reliable and Inexpensive Solar Irradiance Measurement System Design	Claudio Orsetti, Mirco Muttillio, Francesca Romana Parente, Leonardo Pantoli, Vincenzo Stornelli, Giuseppe Ferri
8184	Measurement of Energy Expenditure on a Smartphone Using a Hand-Held Breath Analyser	Tim Vincent , Julian Gardner , Adrian Wilson , John Hattersley , Mike Chappell
8187	Ultrapure Organically Modified Gold Nanoparticles for Breath Analysis	Tesfalem Geremariam Welearegay , Oscar Eduardo Gualdron , Aylen Lisset Jaimes , Juan Martin Caceres , Giovanni Pugliese , Umut Cindemir , Cristhian Manuel Duran , Lars Osterlund , Radu Ionescu
8188	Impact of the Structural Characteristics on the Performance of Light Emitting Capacitors Using nanometric SRO multilayers Fabricated by LPCVD	Jesús Alarcón-Salazar , Ignacio E. Zaldívar-Huerta , Alfredo Morales-Sánchez , Mariano Aceves-Mijares
8189	Hydrogel-Based Actuation for Modiolar Hugging Cochlear Implant Electrode Arrays	Jan Stieghorst, Dennis Beckmann, Theodor Doll
8191	Two-Dimensional (2D) SnS ₂ -Based Oxygen Sensor	Yongxiang Li , Salvatore Gianluca Leonardi , Giovanni Neri , Wojtek Wlodarski
8192	Soft Elastomeric Capacitor Sensor for Structural Health Monitoring	Eleanor Hackney, David Wood, Zoltan Racz

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8194	Ethanol Vapor Imaging System "sniffer camera" for Evaluation of Alcohol Metabolism from Breath and Palm Skin Gas	Takahiro Arakawa, Kenta Iitani, Toshiyuki Sato, Koji Toma, Kohji Mitsubayashi
8195	High Sensitivity Surface Micromachined Absolute Pressure Sensor	Chang Han Je, Sung Q Lee, Woo Seok Yang
8196	A Resonant Pressure Sensor Capable of Temperature Compensation with Least Squares Support Vector Machine	Lin Zhu, Bo Xie, Yonghao Xing, Deyong Chen, Junbo Wang, Yanshuang Wang, Qiuxu Wei, Jian Chen
8197	Photocurrent Vis-UV in SiO _x Films with Silicon Nanocrystals Obtained by HFCVD	Jose Alberto Luna Lopez , Diana Elizabeth Vazquez Valerdi , Godofredo Salgado Garcia , Alvaro David Hernandez de la Luz , Gabriel Omar Mendoza Conde , Alfredo Morales Sanchez , Francisco Javier Flores Gracia , Miguel Angel Dominguez
8198	Detection of Fibrillization Process of Amyloid Beta Protein Using Arrayed Biosensor with Liposome Encapsulating Fluorescent Molecules	Ryota Imamura , Toshinori Shimanouchi , Naoki Murata , Kaoru Yamashita , Masayuki Fukuzawa , Minoru Noda
8199	NDIR Ethanol Gas Sensor with Two Elliptical Optical Structures	Jinho Kim
8202	Pulsed Laser Deposition for Improved Metal-Oxide Gas Sensing Layers	Joni Huotari , Ville Kekkonen , Jarkko Puustinen , Jari Liimatainen , Jyrki Lappalainen
8203	Fibre Optic Lateral Coupling Force Sensor for Biomedical Applications	Jang Ah Kim, Atul Kulkarni, Changmin Kim, Kihong Park, Taesung Kim
8204	A High-Sensitive Detection of Several Tens of nM of Amyloid-Beta by Cantilever-Type Biosensor Immobilized DPPC Liposome Incorporated with Cholesterol	Yuki Murakami , Ziyang Zhang , Tomoya Taniguchi , Masayuki Sohawa , Kaoru Yamashita , Minoru Noda
8205	SiC MOSFET Soot Sensor in a co-Fired LTCC Package	Maciej Sobocinski , David Bilby , David Kubinski , Jaco Visser , Mike Andersson , Jari Juuti , Anita Lloyd Spetz , Heli Jantunen
8206	A Novel Multi-Pad Paper Plate (MP3) Based Assay for Rapid Animal Disease Diagnostics	Valentina Busin , Stewart Burgess , Will Shu
8207	Environmental Pollutant Sensing on a Paper-Based Microfluidic Platform	Spas Kolev
8208	A Low Cost Fully Integrable in a Standard CMOS Technology Portable System for the Assessment of Wind Conditions	Piero Fusacchia, Mirco Muttillio, Alfiero Leoni, Leonardo Pantoli, Francesca Romana Parente, Vincenzo Stornelli, Giuseppe Ferri

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8211	Wireless Energy-Data Transmission and Packaging Solution for Smart Systems to Monitor Industrial Components	María Tijero, Ekhi Arroyo, Zorione Herrasti, Javier Anduaga, Javier Berganzo
8212	Towards Giant piezoresistivity " CNT Sensors Fabricated with a Wafer-Level Technology	Simon Böttger , Stefan E. Schulz , Sascha Hermann
8213	Low Vacuum MEMS Ion-Sorption Micropump	Tomasz Grzebyk, Anna Górecka-Drzazga, Jan Dziuban
8214	Influence of the Design in Microwave-Based Gas Sensors: Ammonia Detection with Titania nanoparticles	Guillaume Bailly, Amal Harrabi, Jérôme Rossignol, Bruno Domenichini, Jean-Pierre Bellat, Igor Bezverkhyy, Pierre Pribetich, Didier Stuerger
8215	Membrane-Sealed Bioreactor for on-Site Autonomous Detection of Fungi Spore Contamination in Archives	Poornachandra Papireddy Vinayaka , Sander van Den Driesche , Roland Blank , Mathias Frodl , Walter Lang , Michael Vellekoop
8216	Design of a Resonator-on-Microchannel (RoM) for Gravimetric Detection Applications in Liquid Environment	Mustafa Kangül , Eren Aydın , Furkan Gökçe , Taylen Berkin Töral , özge Zorlu , Ebru özgür , Haluk Külah
8218	Three-Dimensional Paper-Based Microfluidic Device for Interferon Gamma Detection	Nipapan Ruecha , Nadnudda Rodthongkum , Patcharee Ritprajak , Kwanwoo Shin , Orawon Chailapakul
8219	Sensitivity Optimization of Electrostatic Instability Readout for Surface-Stress-Based Measurements	Banafsheh Sajadi, Hans Goosen, Fred van Keulen
8220	Plastification of Epoxy Resin Transfer Molding Substrate for Fabrication of Interdigital Capacitive Sensor	Maryam Kahali Moghaddam , Jan Hellmann , Walter Lang
8222	A Fully-Integrated CMOS LDO Regulator for Battery-Operated on-Chip Measurement Systems	Jorge Perez Bailon, Alejandro Marquez, Belen Calvo, Nicolas Medrano, Pedro Martinez
8223	Wind Speed and Direction Detection by Means of Solid-State Anemometers Embedded on Small quadcopters	Paolo Bruschi , Massimo Piotto , Filippo Dell'Agnello , John Ware , Nicholas Roy
8226	Acetaldehyde Chemical Sensor Based on Molecularly Imprinted polypyrrole	Marc Debliquy , Nicolas Dony , Driss Lahem , Xiaohui Tang , Chao Zhang , Jean-Pierre Raskin , Marie-Georges Olivier
8227	VOC Sensing Properties of MHDA-Functionalized Multiwall Carbon Nanotubes	Atef Thamri , Hamdi Baccar , Claudia Struzzistruzzi , Carla Bittencourt , Eduard Llobet , Adnane Abdelghani
8228	Development of Low Frequency High Temperature Ultrasonic Guided Wave Transducers for in-Service Monitoring of Pipework in Thermal Power Plants	Anurag Dhutti , Saiful Asmin Tumin , Abbas Mohimi , Tat-Hean Gan , Wamadeva Balachandran , Cem Selcuk

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8230	Sensitive Materials for Chemical Warfare Agents Vapor Detection Using SAW Sensors	Benoit Minot, Celine Frenois, Stephanie Besnard, Nathalie Martins, Franck Pereira
8232	Current-Based High-Sensitivity Differential Detection of Light Power Using Si Photodiodes in Bridge Configuration for Chemical/Biological Optical Sensing	Andrea De Marcellis, Elia Palange
8233	Piezoresistive Silicon Cantilever Covered by ZnO nanorods for Humidity Sensing	Jingmei Yang, Jiushuai Xu, Wenze Wu, Maik Bertke, Hutomo Suryo Wasisto, Erwin Peiner
8234	Suppression Efficiency of the Correlated Noise and Drift of Self-Oscillating Pseudo-Differential Eddy Current Displacement Sensor	Vikram Chaturvedi, Johan Vogel, Stoyan Nihtianov
8235	Measurements Performance of bioradar for Human Respiration Monitoring	Francesco Soldovieri , Gianluca Gennarelli , Luigi Marciano , Orsola Petrella , Giovanni Cerasuolo
8236	Thermal Pulse Method for Life Monitoring of Integrated Piezoelectric Transducers	Agnes Eydam, Gunnar Suchaneck, Gerald Gerlach
8238	Direct-Reading Resonant Silicon Cantilever for Probing of Surface Deposits	Shuo Zhang , Yichao Ding , Wenze Wu , Maik Bertke , Hutomo Suryo Wasisto , Lutz Doering , Uwe Brand , Erwin Peiner
8239	Integrated Readout for SAW Based Biochemical Sensors	Kari Tukkiniemi, Arto Rantala
8241	Preliminary Study of Inkjet Printed Sensors for Monitoring Cell Cultures	Sarah Tonello , Nicola Francesco Lopomo , Mauro Serpelloni , Marialaura Serzanti , Patrizia Dell'Era , Emilio Sardini
8242	Combined Optical Sensor and Capacitor Voltage Divider Arrangement for Voltage Control in Medium Voltage Switchboard	Letizia De Maria , Natale Claudio Pistoni , Daniele Bartalesi
8243	CMOS Integrated Tungsten Oxide Nanowire Networks for ppb-Level H ₂ S Sensing	Johanna Krainer , Eva Lackner , Robert Wimmer-Teubenbacher , Christian Gspan , Karl Rohrer , Ewald Wachmann , Anton Koeck
8244	A Multiplexed Integrated a-Si:H Photosensor for Simultaneous Detection of Mycotoxins for Point-of-Use Food Safety Applications	Denis Santos , Ruben Soares , Virginia Chu , Joao Pedro Conde
8245	The Effect of Thermal Reduction and Film Thickness on Fast Response Transparent graphene Oxide Humidity Sensors	Sotirios Papamatthaiou , Dimitrios-Panagiotis Argyropoulos , Filippos Farmakis , Amrita Masurkar , Konstantinos Alexandrou , Ioannis Kymissis , Nikolaos Georgoulas

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8247	An Experimental Study on the Performances of Two Temperature Sensors Based on 4H-SiC Diodes	Sandro Rao, Giovanni Pangallo, Francesco Giuseppe Della Corte
8248	A Foldable Neural Electrode for 3D Stimulation of Deep Brain Cavities	Dries Kil, Philippe De Vloo, Bart Nuttin, Robert Puers
8249	Inductively Coupled Passive Resonance Sensor for Monitoring Biodegradable Polymers in vitro	Timo Salpavaara, Anni Antniemi, Aleksi Hänninen, Jukka Leikkala, Minna Kellomäki
8250	Feedback Driven Fast Piezoelectric Micro-Lens Actuator	Aron Michael, Chee Yee Kwok, Ssu-Han Chen
8251	A Novel Electrostatic Actuator Class	Holger Conrad , Bert Kaiser , Matthieu Gaudet , Sergiu Langa , Michael Stolz , Sebastian Uhlig , Klaus Schimmanz , Harald Schenk
8254	Fiber Bragg Gratings for Temperature Monitoring During Medical Radiofrequency Treatments	Giovanna Palumbo , Agostino Iadicicco , Daniele Tosi , Paolo Verze , Nicola Carlomagno , Vincenzo Tammaro , Juliet Ippolito , Stefania Campopiano
8256	Silicon Carbide: a Gas Sensing Material for Selective Detection of So2	Andrea Gaiardo , Vincenzo Guidi , Pierluigi Bellutti , Barbara Fabbri , Cesare Malagu , Giulia Zonta , Sandro Gherardi , Nicolo Landini , Matteo Valt
8257	Novel Optical Chemical Sensor Based on Molecularly Imprinted Polymer Inside a Trench Micro-Machined in Double Plastic Optical Fiber	Nunzio Cennamo , Genni Testa , Simone Marchetti , Letizia De Maria , Romeo Bernini , Luigi Zeni , Maria Pesavento
8258	Integration of Capillarity and EWOD Technologies for Autonomous and Low-Power Consumption Micro-Analytical Systems	Marco Nardecchia, Enrica Bellini, Pablo Rodriguez Llorca, Davide Caprini, Nicola Lovecchio, Giulia Petrucci, Domenico Caputo, Giampiero de Cesare, Augusto Nascetti
8259	Non-Invasive Online Monitoring of Cell Growth in Disposable Bioreactors with a Planar Coil	Tobias Reinecke , Philipp Biechele , Madita Frickhöffer , Thomas Scheper , Stefan Zimmermann
8261	Novel Sensor Integration Approach for Blood Pressure Sensing in Ventricular Assist Devices	Silvan Staufert, Christofer Hierold
8262	Study of Sensing Mechanisms in Nerve Agent Sensors Based on Phthalocyanine-Palladium Structures	Paulina Powroźnik, Maciej Krzywiecki, Lucyna Grzędziel, Wiesław Jakubik

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8263	8-hydroxyquinoline-Glucuronide Sodium Salt Used As electroactive Substrate for a Sensitive voltammetric Detection of Escherichia coli in Water Samples	Jörg Ettenauer, Karen Zuser, Karlheinz Kellner, Thomas Posniecek, Martin Brandl
8265	Acoustic Streaming via a Flexible PCB for micropumping Applications	Marcus Andreas Hintermüller, Bernhard Jakoby, Erwin K. Reichel
8266	The New Architecture and Design of the Micro Electro Mechanical Gyroscope-Accelerometer with Intermediate Bodies	Elena Zorina, Tamara Nesterenko, Aleksei Koleda, Evgenii Barbin
8267	Chemical Sensor for Haemodialysis Application	Marco Santonico , Gianpaolo Punzo , Federica Amadei , Gabriele De Pastena , Simone Grasso , Alessandro Zompanti , Giorgio Pennazza , Sauro Amadei
8270	High-Quality-Factor Photonic Crystal Ring Resonator with Applications for Gas Sensing	Reyhaneh Jannesari , Christian Ranacher , Cristina Consani , Ventsislav Lavchiev , Thomas Grille , Bernhard Jakoby
8271	Screen-Printed Biosensors for the Early Detection of Biomarkers Related to Alzheimer Disease: Preliminary Results	Sarah Tonello, Mauro Serpelloni, Nicola Francesco Lopomo, Giulia Abate, Daniela Letizia Uberti, Emilio Sardini
8273	Fabrication of Ultra-Thin Silicon Based Piezoelectric Capacitive Sensor	Shoubhik Gupta , Flavio Giacomozzi , Hadi Heidari , Leandro Lorenzelli , Ravinder Dahiya
8274	Point-of-Use Ultrafast Single-Step Detection of Food Contaminants: a Novel Microfluidic Fluorescence-Based Immunoassay with Integrated photodetection	Ruben Soares , Denis Santos , Inês Pinto , Ana Azevedo , Virginia Chu , Raquel Aires-Barros , João Pedro Conde
8275	An Automated, Robotic Biosensor for the Electrochemical Detection of E. coli in Water	Karlheinz Kellner, Jörg Ettenauer, Karen Zuser, Thomas Posniecek, Martin Brandl
8276	Miniaturized Ir/IrOx Ph Sensor for Quantitative Diagnosis of Dental Caries	Miyuki Tabata, Aoi Asano, Yuichi Kitasako, Masaomi Ikeda, Tatsuro Goda, Akira Matsumoto, Junji Tagami
8277	Development and Characterization of a Miniaturized Flame Ionization Detector in Ceramic Multilayer Technology for Field Applications	Christian Lenz , Holger Neubert , Steffen Ziesche , Jan Förster , Christian Koch , Winfred Kuipers , Michael Deilmann , Dominik Jurkow
8278	Metal-Organic Dual Layer Structure for Stretchable Interconnects	Wenting Dang , Vincenzo Vinciguerra , Leandro Lorenzelli , Ravinder Dahiya
8280	Highly Efficient Current Sensor on-a Chip Based on Nanocrystalline Nife/Cu/Nife Thin Film Spin Valve Structures	Keekeun Lee, Vijay Kondalkar, Xiang Li, Pilgyun Jung, Sangsik Yang

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8284	Nanomechanical IR Spectroscopy for Fast Analysis of Liquid-Dispersed Engineered Nanomaterials	Alina Joukainen Andersen , Shoko Yamada , Pramod Kumar E. K. , Thomas Lars Andresen , Anja Boisen , Silvan Schmid
8285	Integration of photosensors in a Nano-Liter Scale Chromatography Column for the online Monitoring of Adsorption/Desorption Kinetics of a fluorophore-Labeled Monoclonal Antibody	Inês Pinto , Denis Santos , Ruben Soares , Raquel Aires-Barros , Virginia Chu , Ana Azevedo , João Pedro Conde
8286	Sensor-Based Seeds for a Chaotic Stream Cipher	Miguel Garcia-Bosque, Carlos Sánchez-Azqueta, Santiago Celma
8287	Synthesising Graphene Quantum Dots for Gas Sensing Applications	Davoud Raeyani , Saeid Shojaei , Sohrab Ahmadi Kandjani , Wojtek Wlodarski
8288	Selective Ammonia Gas Sensor Based on SnO ₂ -APTES Modification	Mohamad Hijazi , Valérie Stambouli , Mathilde Rieu , Guy Tournier , Jean-Paul Viricelle , Christophe Pijolat
8290	Subnanogram Detection of Silver Stained Protein Bands with Thermal Lens Spectrometry	Giulia Mazza, Thomas Posniecek, Lisa Wagner, Martin Brandl
8291	Influence of a Sensitive Layer Morphology in Resistive Gas Sensors on Their Chlorine Sensing Properties	Marta Fiedot, Olga Rac, Patrycja Suchorska-Woźniak, Helena Teterycz
8292	Pressure Distribution Measurement in Knee Arthroplasty	Jaromir Volf, Viktor Novak
8293	Diagnosis and Prognosis of Tuberculosis with a Porphyrins Based Sensor Array	Nicola Zetola , Alexandro Catini , Roberto Paolesse , Eugenio Martinelli , Corrado Di Natale
8294	Novel Low-Cost Selective Pre-Concentrators Based on Metal Organic Frameworks	Isabel Wilhelm , Max Rieger , Jürgen Huerttlen , Martin Leidinger , Christine Alépée
8295	NO ₂ -Selective Electrochemical Sensors for Diesel Exhausts	Jean-Paul Viricelle , Philippe Vernoux , Jing Gao , Ivan Romanytsia , Philippe Breuil , Christophe Pijolat
8296	Thermo-Mechanical Analysis of Uncooled La _{0.67} Sr _{0.33} MnO ₃ Microbolometer Made on Circular SOI Membrane	Tibor Lalinský , Gabriel Vanko , Jaroslav Dzuba , Vladimír Kutiš , Gabriel Gálik , Milan Držík , štefan Chromik , Peter Lobotka
8297	In-situ Growth of Platinum with Hierarchical Porosity for Low Impedance Biomedical Microelectrode Fabrication	Frederik Ceysens , Sreeprasanth Sree , Lisa Geerts , Johan Martens , Robert Puers
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8300	Dielectric Permittivity Measurement of Paper Substrates Using Commercial Inkjet Printers	Christoph Beisteiner, Bernhard Zagar
8301	A Partially Wettable Micromechanical Resonator for Chemical- and Biosensing in Solution	Phil Peiker, Steffen Klingel, Julian Menges, Hans-Jörg Bart, Egbert Oesterschulze
8305	Capacitance Measurement System for Touchless Interaction	Leonhard Haslinger, Simon Hehenberger, Bernhard Zagar
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8310	Fluorimetric Oxygen Sensor for in vitro Cell Models	Hannu Välimäki , Joose Kreutzer , Jarmo Verho , Kirsi Tappura , Jukka Leikkala
8311	Capacitive Sensing of Surface EMG for Upper Limb Prosthesis Control	Theresa Roland , Sebastian Amsuess , Michael Friedrich Russold , Christoph Wolf , Werner Baumgartner
8313	High Temporal Resolution Study of Phosphorylation Events in HEK Cells Using a Micromixer Microfluidic Device	Pedro Novo, Margherita Dell'Aica, Dirk Janasek, René P. Zahedi
8314	Chipless Wireless Temperature Sensor for Machine Tools Based on a Dielectric Ring Resonator	Alejandro Jiménez Sáez, Ersin Polat, Christian Mandel, Martin Schüßler, Bernd Kubina, Timo Scherer, Nils Lautenschläger, Rolf Jakoby
8316	Free Flow Electrophoresis Separation of Proteins and DNA Using microfluidics and Polycarbonate Membranes	Pedro Novo, Matthias Jender, Margherita Dell'Aica, René P. Zahedi, Dirk Janasek
8318	Fabrication and Characterization of Misaligned Polysilicon-Chromium-Gold Chips Towards Intracellular Bi-Functional Platforms	Aishwarya Sudarsan , Marta Duch , Ezhil Amirthalingam , Sara Duran , Rodrigo Gómez-Martínez , Oriol Torrecilla , Arantxa González-Campos , Maria Lluïsa Pérez-García , Jose Antonio Plaza
8319	Integration of Amorphous Silicon Balanced Photodiodes and Thin Film Heaters for Biosensing Application	Domenico Caputo , Emanuele Parisi , Augusto Nascetti , Mara Mirasoli , Marco Nardecchia , Nicola Lovecchio , Giulia Petrucci , Aldo Roda , Giampiero de Cesare

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8324	Intracellular Silicon Chips: Our Experience from the “stone age” to the nanosystem Age	Marta Duch , Rodrigo Gómez-Martínez , Alberto M. Hernández-Pinto , Patricia Vázquez , Kirill Zinoviev , Enrique J. de la Rosa , Jaume Esteve , Teresa Suárez , Jose Antonio Plaza
8326	Io-Link-Sensors in the Internet of Things	Zoltán Kása , Zoltán Kántor , Markus Rentschler
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8328	Boron Doped Diamond/Metal Nanoparticle Catalysts Hybrid Electrode Array for the Detection of Pesticides in Tap Water	Dounia Kamouni Belghiti, Emmanuel Scorsone, Philippe Bergonzo
8329	Mode Interaction in a Micromechanical Clamped-Clamped Beam Resonator	Tianyi Zhang , Xueyong Wei , Juan Ren , Zhuangde Jiang , Ronghua Huan
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8333	CMOS Integrated UV-Photodiodes	Daniel Gäbler, Christoph Henkel, Sebastian Thiele
8335	Embedded Control of a PMSM Servo Drive Without Current Measurements	Dino Hüllmann, Harald Kohlhoff, Patrick Neumann
8336	Novel MOEMS Lorentz Force Magnetic Field Transducer	Wilfried Hortschitz , Harald Steiner , Michael Stifter , Christopher Siedler , Andreas Kainz , Franz Kohl , Johannes Schalko , Franz Keplinger
8337	Dielectric electroactive Polymer Membrane Actuator with Ring-Type Electrode As Driving Component of a Tactile Actuator	Rui Zhu, Ulrich Mescheder
8339	Fibre Grating Based Sensor Design for Humidity Measurement in Chemically Harsh Environment	Lourdes S M Alwis , Tong Sun , Kenneth T V Grattan
8341	Artificial Neural Network Assisted Compact Inductive Distance Sensor	Zoltán Kántor, Zoltán Pólik

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8345	Room Temperature CO Sensing with Metal Oxide nanoparticles Using Work Function Readout	Nauman Bin Tanvir, Elmar Laubender, Olena Yurchenko, Gerald Urban
8347	Amperometric Polyphenol Biosensor Based on Tyrosinase Immobilization on Coal-Layered Double Hydroxide Thin Film	Asma Soussou , Ibtissem Gammoudi , Fabien Moroté , Marion Mathelie-Guinlet , Adel Kalboussi , Zouhair M. Baccar , Touria Cohen-Bouhacina , Christine Grauby-Heywang
8349	MEMS Infrared Emitter and Detector for Capnography Applications	Mohamed Chowdhury
8350	Implementation of a Magnetostrictive Optical Current Transducer Prototype for Power Transmission Lines Monitoring	Fábio Nazaré, Marcelo Werneck
8351	A MEMS Based Electrochemical Seismometer with Low Cost and Wide Working Bandwidth	Zhenyuan Sun, Deyong Chen, Jian Chen, Tao Deng, Guanglei Li, Junbo Wang, Chao Xu
8353	Parallelizable Microfluidic Resistive on-Line Detector of Micrometric Aggregates of Biopharmaceutical Antibodies	Marco Carminati , Marco Giacometti , Marco Sampietro , Sergio Chiodini , Tibor Doles , Giorgio Ferrari
8354	Finite Element Analysis of Polymer-Encapsulated ZnO Nanowire-Based Sensor Array Intended for Pressure Sensing in Biometric Applications	Rolanas Dauksevicius , Rimvydas Gaidys , Masoud Seifikar , Eoin O'reilly
8355	A Wearable MEMS Gas Chromatograph for Multi-Vapor Determinations	Edward Zellers , Junqi Wang , Nicolas Nunovero , Sanketh Buggaveeti , Katsuo Kurabayashi , Willie Steinecker
8357	Vibration Modes of Piezoelectric Diaphragms for Ultrasonic Microsensors and Influence of Top Electrodes	Kaoru Yamashita, Tomoki Nishioka, Taiki Nishiumi, Minoru Noda
8358	Nanocrystalline Diamond Membrane Provides Electronic Monitoring of Proteins and Cells in Microfluidic Perfusion Systems	Bohuslav Rezek , Marian Varga , Catharina Pedrosa , Virginia Chu , Joao Conde , Alexander Kromka
8359	Label-Free Electrostatic Detection of DNA Amplification by PCR Using Capacitive Field-Effect Devices	Arshak Poghossian , Thomas Bronder , Sabrina Scheja , Chunsheng Wu , Michael Keusgen , Michael Schöning
8360	A Microchip Integrated Wireless Sensor for the Monitoring of High Concentration Photovoltaic Solar Modules	Francesco Della Corte , Giuseppe Cocorullo , Pasquale Corsonello , Corrado Felini , Massimo Merenda , Stefania Perdi , Gianni Borelli , Maurizio Carpanelli , Daniele Verdilio

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8361	A New Class of Biosensors Based on Tobacco Mosaic Virus and Coat Proteins As Enzyme nanocarrier	Matthias Bäcker , Claudia Koch , Sabine Eiben , Fania Geiger , Fabian Eber , Hartmut Gliemann , Arshak Poghossian , Christina Wege , Michael Schöning
8363	Photoresist Micro-Chamber for the Diffracted X-Ray Tracking Method Recording Single-Molecule Conformational Changes	Kio Tahara , Yoshikazu Hirai , Hirofumi Shimizu , Toshiyuki Tsuchiya , Osamu Tabata
8365	Pixel-Level APS Sensor Integration and Sensitivity Scaling for Vision Based Speed Measurement	Németh Máté , Zarándy ákos , Földesy Péter
8366	Steel Integrated IR Thermopile Array for Characterizing Grinding Processes	Marcel Reimers , Benjamin Kolkwitz , Dennis Beck , Mridusmita Sarma , Carsten Heinzl , Walter Lang , Gerrit Dumstorff
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8371	UV-crosslinked Polymeric Materials for Encapsulation of ZnO Nanowires in Piezoelectric Fingerprint Sensors	Agathe Bouvet-Marchand , Alain Graillot , Cédric Loubat , Janos Volk , Rolanas Daukevicius , Bjoern Christian , Vadim Lebedev
8372	Using Net Analyte Signal to Estimate the Limit of Detection in Temperature Modulated MOX Sensors	Javier Burgues, Juan Manuel Jimenez-Soto, Santiago Marco
8373	Ion Selective Potentiometric Sensor Based on Single Crystalline KTiOPO4 for Determination of K+ Ions	Konstantin German , Alexander Kopytin , Konstantin Zhizhin , Alexander Zhukov , Eugeny Ilyin
8375	Enzymatic Biosensors Based on Electrodeposited Alginate Hydrogels	Augusto Marquez-Maqueda , Nuria Vignes , Ferran Pujol , Maria Diaz-Gonzalez , Jordi Mas , Cecilia Jimenez-Jorquera , Carlos Dominguez , Xavier Muñoz-Berbel
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8379	NiO/ZnO Nanowire-Heterostructures by Vapor Phase Growth for Gas Sensing	Navpreet Kaur, Elisabetta Comini, Dario Zappa, Nicola Poli, Giorgio Sberveglieri
8381	Evaluation Algorithms for Linear Position Sensors Assisted by Artificial Neural Network	Zoltán Kántor, Attila Szabó
8382	A Spiking Artificial Olfactory Receptor Neuron (AORN) Based on Temperature Modulated Gas Sensor	Alexandro Catini , Eugenio Martinelli , Giovanni Galizia , Corrado Di Natale

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8384	Embedded Platform for Generic High-Order Sigma-Delta Accelerometers Testing	Nuno Brito , Vasco Lima , Filipe Alves , Jorge Cabral , João Gaspar , João Monteiro , Luís Rocha
8385	Advanced 3D Spheroid Culture for Evaluation of Photodynamic Therapy in Microfluidic System	Zbigniew Brzózka, Agnieszka Zuchowska, Elzbieta Jastrzebska, Michal Chudy, Artur Dybko
8386	Characterisation of Coefficient of Thermal Expansion of LPCVD Polycrystalline SiC Using Two Section V-Beam Actuators	Aleksandar Jovic, Sotiris Thomas, Bruno Morana, Gregory Pandraud, Lina Sarro
8388	Simple Synthetic Jet Actuators for Cooling Applications Using Soft or Rigid Magnets	Gerda Buchberger, Bernhard Jakoby, Juergen Schoeftner, Andreas Schuetzenberger, Bianca Wiesmayr, Werner Baumgartner, Stefan Puttinger, Andreas Brandl, Wolfgang Hilber
8389	Towards Feasibility of an Inkjet-Printed Capacitive Sensor for Position Tracking of a MOEMS-Mirror in a Michelson Interferometer Setup	Lisa-Marie Faller, Hubert Zangl
8391	Torsional microresonator in the Nonlinear Regime: Experimental, Numerical and Analytical Characterization	Claudia Comi, Alberto Corigliano, Milena Doti, Alessandro Garatti, Giacomo Langfelder, Valentina Zega
8393	Visual Traffic Sensor with Local Image Processing	Kristóf Csorba, László Blázovics, Lilla Barancsuk
8394	In-situ Biogas Sensing System for Enabling Spatially Resolved online Determination of the Gas Composition of the Fermenter	Benedikt Bierer, Alvaro Ortiz Peréz, Jürgen Wöllenstein, Stefan Palzer
8396	Developing a Personal Exposure Kit (PEK) for Individual Exposure Assessment of Metropolitan Residents	Zhi Ning , Fenhuan Yang , Viki Tong , Flora Lau , Kiwi Zhang , Dane Westerdahl , Simon Ng , Xiang Yang
8397	Design of Surface Plasmon Resonance Sensor in Plastic Optical Fibers Based on Nano-Antenna Arrays	Nunzio Cennamo , Ramona Galatus , Francesco Mattiello , Reem Sweid , Luigi Zeni
8398	Portable Laboratories in Suitcases Utilizing Microfluidic Chips for Identification of Bacteria and Virus Pathogens As a New Tool of EU Countries Biological Threats Defense Strategy	Rafa? Walczak
8399	Inkjet 3D Printing " Studies on Applicability for Lab-on-a-Chip Technique	Rafa? Walczak

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8402	Low Temperature Gas Sensing Properties of Graphene Oxide/SnO ₂ Nanowires Composite for H ₂	Munasinghe A.H.M.Munasinghe, Elisabetta Comini, Dario Zappa, Nicola Poli, Giorgio Sberveglieri
8403	Studies on the Characterization of Novel Piezoelectric Sensor Elements, Integrated in Glass Fibre-Reinforced Polyurethane Composites	Sirko Geller, Thomas Tyczynski, Maik Gude
8404	Influence of Electrical Modes on Sensitivity of MISFET Ionizing Radiation Dose Sensors	Boris Podlepetsky, Yliya Sukhoroslova
8406	Smart Chemical System for Reliable Fire Detection	Jordi Fonollosa, Ana Solórzano, Juan Manuel Jiménez-Soto, Sergi Oller-Moreno, Santiago Marco
8407	Optimization of an Evanescent Field Sensor Based on D-Shaped Plastic Optical Fiber for Chemical and Biochemical Sensing	Filipa Sequeira , Lúcia Bilro , Alisa Rudnitskaya , Maria Pesavento , Luigi Zeni , Nunzio Cennamo
8408	Improved Repeatability in Planar Water-Gated Field Effect Transistor (WG-FET) with 16-nm-Thick Single Crystalline Si Film	Bedri Gurkan Sonmez, Ozan Ertop, Senol Mutlu
8409	A Simple Conditioner for Resonant Intraocular Pressure Sensor	Fabien Soulier , Frédéric Mailly , Vincent Kerzérho , Anthony Deluthault , Serge Bernard , Philippe Cauvet
8410	Double Channel UV Fluorescence Sensor for Detection of Petrol and Gasoline Contamination in Water	Vilmos Rakovics , Csaba Dücs? , Sándor Kulinyi , János Szuchács
8411	Measuring Calcium Content of Human Milk on a Microfluidic Chip	Anna Haller , Sabine Zauner , Mohammad Amin Managhebaty , Dietmar Puchberger , Nadja Haiden , Alexandra Kreissl , Anne Kasper-Giebl , Franz Keplinger , Michael Vellekoop
8413	A New Optical UWB Modulation Technique for 250Mbps Wireless Link in Implantable Biotelemetry Systems	Andrea De Marcellis , Elia Palange , Marco Faccio , Luca Nubile , Guido Di Patrizio Stanchieri , Stefano Petrucci , Timothy Constandinou
8414	Tri-Axial Force Sensor Unit for Smart Prosthetics	Guido Sordo, Alvise Bagolini, Daniele Perenzoni, Leandro Lorenzelli
8415	Gauging Indoor Air Quality with Inexpensive Gas Sensing Technologies	Alvaro Ortiz Perez, Benedikt Bierer, Ponkanok Eaksen, Jürgen Wöllenstein, Stefan Palzer
8416	Molecularly Imprinted Polymer Based Sensor to Detect isoborneol in Aqueous Samples	Guilherme de Souza Braga , Peter Lieberzeit , Fernando Josepetti Fonseca

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8417	32-Channel Integrated Electrical Impedance Sensors on a Multi-Functional Neural Microelectrode Array Platform	Vijay Viswam, Raziye Bounik, Amir Shadmani, Jelena Dragas, Yihui Chen, Andreas Hierlemann
8419	Molecularly Imprinted Polymer-Carbon Nanotube Based Cotinine Sensor	Yawar Abbas , Johan Bomer , Marjolein Brusse-Keizer , Kris Movig , Paul van der Valk , Marcel Pieterse , Loes Segerink , Wouter Olthuis , Albert van Den Berg
8420	Nano- and Microfluidic Channels As Electrokinetic Sensors and Energy Harvesting Devices - Importance of Surface Charge on Solid-Liquid Interfaces	Pal Arki, Christine Hecker, Frederic Güth, Yvonne Joseph
8421	Electrochemical Sensors Based on Printed Circuit Board Technologies	Frederic Güth , Pal Arki , Thomas Löher , Andreas Ostmann , Yvonne Joseph
8422	2'-OMe-RNA Analogues for Peroxidase-Mimicking DNAzymes	Joanna Kosman, Bernard Juskowiak
8423	MIP and MIP Composites in Diagnostics: HDL and Virus Sensing	Peter Lieberzeit , Suticha Chunta , Kronkaew Navakul , Chak Sangma
8424	Autonomous System for in-situ Assay of Antibiotic Activity on Bacterial biofilms Using Viscosity and Density Sensing Quartz Tuning Forks	Tomasz Piasecki , Grzegorz Gu?a , Pawe? Markwitz , Karol Waszczuk , Anna Gosiewska , Zuzanna Drulis-Kawa , Teodor Gotszalk
8426	Attachment of Primary Mouse astroglial Cells on Neural Implant Surfaces	Zsófia Bérces , Bence Csernyus , Hanna Liliom , Katalin Schlett , Domonkos Pinke , Péter L?w , ágoston Horváth , Zoltán Fekete , Anita Pongracz
8428	Pt Deposition Techniques for Catalytic Activation of Nano-Structured Materials	Ferenc Biró, György Radnóci, Máté Takács, Zsófia Baji, Csaba Dücs?, István Bársony
8429	A Flexible Multifunctional Tactile Sensor Using Interlocked ZnO Nanorod Arrays for Artificial Electronic Skin	Min Sheng Suen, Yi Cheng Lin, Rongshun Chen
8430	Highly Sensitive Electrochemical Biomems for TNF-? Detection in Human Saliva: Heart Failure	Alessia Longo , Abdoulatif Baraket , Monica Vatteron , Nadia Zine , Joan Baussells , Fabio Di Francesco , Dimitrios I. Fotiadi , Arianna Mencassi , Abdelhamid Errachid
8431	Investigation of the Performance of Thermally Generated Au/Ag nanoislands for Sers and LSPR Applications	Istvan Csarnovics , Attila Bonyár , Miklos Veres , László Himics , Judit Kámán , Attila Csík , Sándor Kökényesi
8432	Growth of Ultrathin ZnO Nanowires by Pulsed Laser Deposition	Alexander Shkurmanov, Chris Sturm, Holger Hochmuth, Marius Grundmann

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8434	A Compact CMOS Compatible Micro-Pirani Vacuum Sensor with Wide Operating Range and Low Power Consumption	Massimo Piotto , Simone Del Cesta , Paolo Bruschi
8435	Gas Sensor for Volatile Organic Compounds Detection Using Silicon Photonic Ring Resonator	G Zhang, X. L. Feng, B. Liedberg, A. Q. Liu
8437	CMOS Integrated Nanocrystalline SnO ₂ Gas Sensors for CO Detection	Eva Lackner , Johanna Krainer , Robert Wimmer-Teubenbacher , Christian Gspan , Karl Rohrer , Ewald Wachmann , Anton Köck
8438	A High Efficient Thermoelectric Module with Phase Change Material for IoT Power Supply	Kanaae Nakagawa, Takashi Suzuki
8440	Bandwidth Optimisation and Frequency Tuning of plasmonic functionalised metasurfaces for Optical Sensing of Chemical and Biological Substances	Mohammed Janneh, Andrea De Marcellis, Elia Palange
8441	Analysis and Characterization of Thermal-Piezoresistive MEMS Resonators	Claudia Coelho , João Gaspar , Luis Rocha
8442	Multisensory Smart Glove for Tactile Feedback in Prosthetic Hand	Anton Polishchuk, William Taube Navaraj, Hadi Heidari, Ravinder Dahiya
8443	Ionogel-Based Nitrite and Nitrate Sensor for Water Control at the Point-of-Need	Janire Saez , Gorka Arana , Luis Angel Fernandez-Cuadrado , Fernando Benito-Lopez
8444	Gradient Capacitance for Solid Particle Position Detection in Electrolyte	Miguel Solsona, Wouter Olthuis, Albert Van Den Berg
8445	Integration of New Sol-Gel Films Into Optical Chemical Sensors	Emmanuel Scolan , Rita Smajda , Gilles Weder , Guy Voirin , Raphaël Pugin , Yanick Michou , Marie-Claire Mérienne , Marianne Lyonnet , Andreas Winzer
8446	P-Type BSI Image Sensor with Active Deep Trench Interface Passivation for Radiation-Hardened Imaging Systems	Bastien Mamdy , Guo-Neng Lu , François Roy
8447	Performance Comparison of Sigma-Delta Modulator Architectures for MEMS Accelerometers Using a Fully-Digital Approach	Vasco Lima , Nuno Brito , Filipe Alves , Jorge Cabral , João Gaspar , Luis Rocha

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8449	Molecular Self-Assembly for Signal Enhancement in Nucleic Acids Biosensors	Giampaolo Zuccheri , Andrea Miti , Giada Forlani , Francesca Bussolari
8450	Influence of Excitation Waveform on the Frequency Stability of an Electrostatic MEMS Oscillator	Jerome Juillard , Alexis Brenes , Filipe Vinci Dos Santos{}
8452	Novel Antenna Structure for Early Breast Cancer Detection	Amal Afyf , Larbi Bellarbi , Nourdin Yaakoubi , Mohamed Latrach , Etienne Gaviot , Lionel Camberlein , Mohamed Adel Sennouni
8453	Towards Micromechanical Sensors with (La,Sr)MnO3 Epitaxial Films	Federico Remaggi , Luca Pellegrino , Nicola Manca , Cristina Bernini , Daniele Marrè
8455	Non-Electrical Sensing and Storing - an Alternative to Electrical Energy Harvesting	Martin Hoffmann , Karin Wedrich , Philip Schmitt , Hannes Mehner , Reinhard Jurich
8456	LSPR Nanosensors with Highly Ordered Gold nanoparticles Fabricated on nanodimpled Aluminium Templates	Attila Bonyár , Tomáš Lednický , Jaromír Hubálek
8459	Low-Cost Embedded Spirometer Based on Commercial Micro Machined Platinum Thin Film	Laghrouche Mourad, Saadaoui Rafik, Mellal Idir, Nachef Mhena, Ameer Soltane
8460	Dynamic Multi-Sensor Operation and Read-Out for Highly Selective Gas Sensor Systems	Manuel Bastuck , Wolfhard Reimringer , Thorsten Conrad , Andreas Schütze
8462	Toxic Effect Monitoring by Analysing Swimming Motions of Microbial Cells Confined in Microfluidic Chip with Micro-Trench Flow Injection	Kazunari Ozasa , June Won , Simon Song , Mizuo Maeda
8463	Development and Characterization of a Miniature Multimodal Actuator for Effective Tactile Feedback	Tao Li , Huaiqi Huang , Jörn Justiz , Volker M. Koch
8464	Miniature Flexible Pressure Sensors to Provide Tactile Feedback for Hand Prostheses	Tao Li , Huaiqi Huang , Jörn Justiz , Volker M. Koch
8468	Inkjet 3D Printed Electrophoretic Lab-on-a-Chip for DNA Separation	Krzysztof Adamski, Wojciech Kubicki, Rafał Walczak
8469	Plant Physiological Activity Sensing by Bioelectric Potential Measurement	Yuki Hasegawa, Fumiya Murohashi, Hidekazu Uchida
8470	Capacitive Sweat Sensor Constructed by Gui Diatomaceous Earth	Wei-Yin Zeng, Chun-Hui Chen, Chia-Ming Yang, Hsin-Yin Peng, Chao-Sung Lai

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8473	Integration of Piezoelectric Nanowires Matrix Onto a Microelectronics Chip	Elise Saoutieff, Marjolaine Allain, Yoanna-Reine Nowicki-Bringuier, Antoine Viana, Emmanuelle Pauliac-Vaujour
8475	A New Approach to Evaluate Vinegars Quality: Application of Small Sensor System (S3) Device Coupled with Enfleurage	Giulia Betto , Veronica Sberveglieri , Estefania Núñez Carmona , Elisabetta Comini , Paolo Giudici
8476	Quality Evaluation of Parmigiano Reggiano Cheese by a Novel Nanowire Device S3 and Evaluation of the VOCs Profile	Manohar Prasad Bhandari, Estefanía Núñez Carmona, Vardan Galstyan, Veronica Sberveglieri
8478	Printed Strain Gauges Embedded in Organic Coatings	Herbert Enser
8479	Fracture Analysis of a-SiC:H Membranes After Thermal Annealing	Tobias Frischmuth, Alexander Klein, Michael Schneider, Ulrich Schmid
8480	A CMOS Mixed Mode Non-Linear Processing Unit for Adaptive Sensor Conditioning in Portable Smart Systems	Alejandro Martínez-Nieto , María Teresa Sanz , Belén Calvo , Nicolás Medrano
8482	Non-Reactive Working Fluids for Reliably Sensing Nanoparticles in Automotive Exhaust Gases	Martin Kraft , Tristan Reinisch , Alexander Bergmann
8483	Influence of Period on Surrounding Refractive Index Sensitivity of Arc-Induced Long Period Gratings	Rajeev Ranjan, Flavio Esposito, Stefania Campopiano, Agostino Iadicicco
8484	Sensitivity Optimization of Microwave Biosensors	Thomas Voglhuber-Brunnmaier , Lisa-Marie Wagner , Christian Diskus , Bernhard Jakoby , Martin Brandl
8485	Bacteria Detection with High-Frequency Gravimetric Biosensors Based on AlN Thin Film Resonators	Bárbara Díaz-Durán, José Miguel Escolano, Jimena Olivares, Marta Clement, Teona Mirea, Jesús Sangrador, Enrique Iborra
8487	Gold nanoshells for Sensing Applications in Near Infra-Red Region Using 'U' Bend Optical Fibers	Joseph Tharion, Shraddha Chauhan, Soumyo Mukherji
8488	Precise Determination of d33 and d31 from Piezoelectric Deflection Measurements and 2D FEM Simulations Applied to ScxAl1-xN Thin Films	Patrick Mayrhofer, Elisabeth Wistrela, Michael Schneider, Achim Bittner, Ulrich Schmid
8489	A Microwave Ring Resonator Based Glucose Sensor	Berk Camli , Emre Kusakci , Berkan Lafci , Seyhan Salman , Hamdi Torun , Arda Yalcinkaya
8490	A Novel Sensing Method for HPO4 ²⁻ and HCO3 ⁻ by Electrochemical Oxidation with Amorphous Mixed Oxide Catalyst	Ai Honda, Masatsugu Morimitsu

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8495	Detection of Ethylene Using Gas Chromatographic System	Nayyer Abbas Zaidi, Muhammad Waseem Tahir, Poornachandra P. Vinayaka, Michael Vellekoop, Walter Lang
8496	Fabrication and Characterization of PECVD Si3N4 Diaphragm-Based Capacitive-Type Acoustic Sensor for IoT Application	Jaewoo Lee , Juhyun Jeon , Wooseok Yang , S.-G. Lee
8497	Strain Measuring 3D Printed Structure with Embedded Fibre Bragg Grating	Richard Zeleny, Jan Vcelak, Lukas Velebil, Petr Kuklik
8498	Effective Flow Control in Autonomous Polymer Microfluidic Systems Based on Surface Modification and Bioinspired micropatterning	Eszter Holczer, Peter Furjes
8502	Diesel Detection in Surface Water in the Low ppb Range	Mats Eriksson, Fredrik Winquist
8503	Real-Time Monitoring of Cell Activities by Diamond Solution-Gated Field Effect Transistors	Tibor Izak , Vaclav Prochazka , Toshiya Sakata , Bohuslav Rezek , Alexander Kromka
8506	Photoacoustic CO2-Sensor for Automotive Applications	Jochen Huber , Christian Weber , André Eberhardt , Jürgen Wöllenstein
8507	Gas Composition Sensor for Natural Gas and Biogas	Arjen Boersma, Huib Blokland, Jorgen Sweelssen
8508	Monitoring of the Dilution of Motor Oil with Diesel Using an Advanced Resonant Sensor System	Alexander Niedermayer, Thomas Voglhuber-Brunnmaier, Martin Heinisch, Friedrich Feichtinger, Bernhard Jakoby
8509	Wet-Etch Induced Changes in Impedance of Carbon Nanotube-Silicone Rubber Electrode Materials for Active Implants	Katharina Tegtmeier, Fabian Borrmann, Theodor Doll
8510	Nondispersive Infrared Photometer Based on a Rotating Interference Filter for Investigation of Climacteric Fruit Ripening	Andre Eberhardt , Katrin Schmitt , Sven Rademacher , Jochen Huber , Marie-Luise Bauersfeld , Jürgen Wöllenstein
8511	Piezoelectric AlN Films for FPW Sensors with Improved Device Performance	Markus Reusch , Katarzyna Holc , Lutz Kirste , Björn Christian , Philip Katus , Leonhard Reindl , Oliver Ambacher , Vadim Lebedev
8512	Fiber Bragg Grating Distributed Chemical Sensors	Arjen Boersma, Ray Cremers, Rob Jansen
8513	Simulation and Experimental Validation of Particle Trapping in Microfluidic Magnetic Separation (MMS) System	Eszter L. Tóth , Adrienne Füredi , Kristóf Iván , Péter Fürjes

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8514	Graphene-Zinc Oxide Based Nanomaterials for Gas Sensing Devices	Vardan Galstyan , Elisabetta Comini , Iskandar Kholmanov , Andrea Ponzoni , Veronica Sberveglieri , Nicola Poli , Guido Faglia , Giorgio Sberveglieri
8515	A 100nW Power Overhead Load Interface for Electrostatic Vibrational Energy Harvester with a High Biasing Voltage	Mohammed Bedier, Dimitri Galayko
8517	Embedded OMTDR Sensor for Small Soft Fault Location on Aging Aircraft Wiring Systems	Wafa Ben Hassen , Miguel Gallego Roman , Baptiste Charnier , Nicolas Ravot , Antoine Dupret , Armando Zanchetta , Freddy Morel
8518	Surface Modification of Integrated Optical MZI Sensor Arrays Using Inkjet Printing Technology	Eva Melnik , Florian Strasser , Paul Muellner , Rudolf Heer , Giorgio C. Mutinati , Guenther Koppitsch , Peter Lieberzeit , Michael Laemmerhofer , Rainer Hainberger
8519	Colloidal TiO2 Modified CVD graphene Based Hybrid for Electroanalytical Sensing	Chiara Ingrosso , Giuseppe Valerio Bianco , Valentina Pifferi , Francesca Petronella , Roberto Comparelli , Marinella Striccoli , Maria Lucia Curri , Luigi Falciola , Giovanni Bruno
8520	Microfluidic Particle Sorting System for Environmental pollution Monitoring Applications	Eszter L. Tóth , Eszter Holczer , Péter Földesy , Kristóf Iván , Péter Fürjes
8522	Understanding the Behaviour of Stimuli-Response Ionogels for Microfluidics Applications	Nerea Gil , Tugce Akyazi , Ana Zuzuarregui , Enrique Castaño , Fernando Benito , Maria Carmen Morant
8523	Optical Chemical Oxygen and Ph Sensors for the Application in Microfluidic Devices	Torsten Mayr, Josef Ehgartner, Shiwen Sun, Bernhard Müller, Martin Strobl
8524	Inkjet Printed Single Use Humidity Threshold Monitoring Sensor Solution Employing a Mixed Nanoparticle and Salt Region	Sebastian Sauer, Wolf-Joachim Fischer
8527	Familiar Optical Sensors for Cadmium(II) and Zinc(II) Ions Detection	Larisa Lvova , Corrado Di Natale , Roberto Paolesse , Luca Giorgi , Vieri Fusi , Alessandra Garau , Vito Lippolis
8528	Detection and Sizing of Single Droplets Flowing in a Microfluidic Device by Impedance Measurement	Nour Eddin Yakdi, Damien Bricault, François Huet, Kieu Ngo
8529	Force Feedback Control System Dedicated for Robin Heart Surgical Robot	Zbigniew Nawrat , Kamil Rohr , Lukasz Mucha , Gábor Szebényi , Pál Soós , János Radó , Péter Földesy , Csaba Dücs? , Péter Fürjes
8531	Optical Spectroscopy for Biofuel Composition Sensing	Luke Middelburg , Ger de Graaf , Mohammadamir Ghaderi , Andre Bossche , Jeroen Bastemeijer , Jaco Visser , Reinoud Wolffenbuttel

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8533	Detection of trans-2-hexenal Using QCM Sensor in Black Tea	Prolay Sharma , Nilava Debabhuti , Barnali Ghatak , Sk. Babar Ali , Lakshi Prasad Bhuyan , Pradip Tamuly , Nabarun Bhattacharyya , Rajib Bandyopadhyay
8534	New MEMS Pressure Sensor Element and Concept for Coronary Catheter	Anu Kärkkäinen , Jaakko Saarilahti , Heikki Kuisma , Jukka Kyynarainen
8535	Titanium Dioxide Nanostructures Chemical Sensor	Angela Bertuna, Elisabetta Comini, Nicola Poli, Dario Zappa, Giorgio Sberveglieri
8536	Divanadium Pentoxide/4H-Silicon Carbide: a Schottky Contact for Highly Linear Temperature Sensors	Sandro Rao , Giovanni Pangallo , Luigi Di Benedetto , Alfredo Rubino , Gian Domenico Licciardo , Francesco Giuseppe Della Corte
8537	Signal-to-Noise Ratio in Adsorption-Based Microfluidic bio/Chemical Sensors	Zoran Djuric , Ivana Jokic , Gradimir Milovanovic
8538	Gesture Recognition with Sensor Data Fusion of Two Complementary Sensing Methods	Maximilian Landgraf, In Seong Yoo, Julian Sessner, David Mattejat, Sebastian Reitelshöfer, Jörg Franke
8540	A Portable Control and Measurement System for Thermal Sensors Interfacing	Anastasios Moschos, Grigoris Kaltsas
8543	Piezoelectric Sensitivity of a Layered Film of Chitosan and Cellulose Nanocrystals	Aleksi Hänninen, Satu Rajala, Timo Salpavaara, Minna Kellomäki, Sampo Tuukkanen
8544	A PCB Based Engine Air Intake Sensor " Application to a Typical Low Power Engine	Dimitrios"nikolaos Pagonis, Anastasios Moschos, Grigoris Kaltsas
8545	Plano-Convex Variable Focal Length Micro-Lens with a Polymer Nanocomposite Actuator	Boscij Pawlik, Andreas Rieck, Florenta Costache
8546	Detection of Gaseous Ethanol by the Use of Ambient Temperature Platinum Catalyst	Jan-Kees Boerman
8547	Influence of Nb-Doping on Hydrogen Sensing Performance of Wo3 Nanowires	Dario Zappa , Angela Bertuna , Elisabetta Comini , Nicola Poli , Giorgio Sberveglieri
8548	Application of Local Backside Contacts for Structuring of Silicon with Anodization: Simulation and Experiments	Alexey Ivanov, Andras Kovacs, Ulrich Mescheder
8550	Nanoscale Patterning and Processing Technologies for Advanced Sensors	Yordan Georgiev , János Volk , Róbert Erdélyi , István Lukács , Chris Sturm , Marcus Grundmann

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8551	High Accuracy Nanoparticle Sensor for Combustion Engine Exhaust Gases	Martin Kraft , Jaroslaw Kaczynski , Tristan Reinisch , Manuel Unger , Alexander Bergmann
8552	Switch-Matrix-Based Monolithic CMOS Platform Featuring a Large Array of Carbon Nanotube Sensor Elements and a 96-Channel Readout Circuitry	Alexandra Dudina , Florent Seichepine , Yuhui Chen , Alexander Stettler , Andreas Hierlemann , Urs Frey
8553	Polymethacrylate Matrix with Immobilized Acid-Base Indicators As Ph Sensor	Alexey Sukhanov, Natliya Gavrilenko, Nadezhda Saranchina
8554	A Comparative Study of Increasing Sensitivity Based on MoS ₂ Gas Sensor	Shifur Rahman Shakil, Md. Khalilur Rhaman
8555	Monocopper Complex Based on N-Tripodal Ligand Immobilized in a Nafion [®] Film for Biomimetic Detection of Catechols: Application to Dopamine	Florence Geneste , Mina Boulkroune , Aissa Chibani
8556	Development of a New Integrated Easy to Use Micro-Electrochemical Platform for Food Analysis and Staphylococcal Enterotoxin B Detection	Zeineb Ben Abdallah , Ibtissem Gammoudi , Manel Ben Ismail , Marion Mathelie-Guinlet , Fabien Morote , Sébastien Cassagnere , Ali Othmane , Halim Sghaier , Touria Cohen-Bouhacina
8557	Biostability Assessment of Flexible Parylene C-Based Implantable Sensor in Wireless Chronic Neural Recording	Aziliz Lecomte , Amélie Degache , Emeline Descamps , Lionel Dahan , Christian Bergaud
8558	Discrimination of Living Biological Cells by Infrared Absorbance Measurements in a microfluidics Chip	Reza Ebrahimifard, Sander van Den Driesche, Marta Di Salvo, Michael J. Vellekoop
8559	Direct Comparison of the Sensitivity of QCM and Thin AlN Film Based SMR Biosensors	Bárbara Díaz-Durán, José Miguel Escolano, Jimena Olivares, Marta Clement, Teona Mirea, Enrique Iborra
8561	A Novel C-Ant Miner Classification Model for Feature Selection and Fault Tolerance of Chemical Sensor Data	Gabriele Magna, Sowmya Velappa Jayaraman, Matteo Maola, Alexandro Catini, Rosamaria Capuano, Eugenio Martinelli, Corrado Di Natale
8562	Implementation of CMOS-Compatible metamaterial Absorber for Gas Sensing Application	Ehsan Karimi Shahmarvandi, Mohammadmir Ghaderi, Pelin Ayerden, Ger De Graaf, Reinoud Wolffenbuttel
8563	Assessment of Explosion Risks in the Presence of Hydrocarbon Blends	Alexander Baranov , Andrey Somov , Alexey Karelin , Evgeny Karpov , Sergey Mironov

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8564	Mode Veering and Internal Resonance in Mechanically Coupled nanocantilevers Under Electrostatic Actuation	Najib Kacem, Vincent Walter, Gilles Bourbon, Patrice Le Moal, Joseph Lardies
8565	Improved Version of the Tactile/Force Sensor Based on Optoelectronic Technology	Andrea Cirillo, Pasquale Cirillo, Giuseppe De Maria, Ciro Natale, Salvatore Pirozzi
8566	A Self-Compensating System for Fixed Pattern Noise Reduction of Focal Plane Arrays of Infrared Bolometer Detectors	Pavel Neuzil, Jan Pekarek, Vojtech Svatos, Roman Prokop, Imrich Gablech, Jaromir Hubalek, Lukas Fucik
8568	Monitoring the Tyre Deformation on a Vehicle on the Run	János Radó , Gábor Battistig , Sándor Kulinyi , Richard Végvári , István Bársony
8569	Solidly Mounted Resonators with Integrated Carbon Nanotube Forests for Chemical Sensing	Teona Mirea, Jimena Olivares, Marta Clement, Bárbara Díaz-Durán, Jesús Sangrador, Enrique Iborra
8570	Aircraft Structural Health Monitoring with Energy Harvesting Powered Wireless Sensor Network	Andrey Somov, Tingwen Ruan, Zheng Jun Chew, Meiling Zhu
8571	Fabrication and Characterization of Piezoelectric Paper Based Device for Touch and Force Sensing Applications	Sepehr Emamian, Binu Baby Narakathu, Amer Abdulmahdi Chlaihawi, Bradley J. Bazuin, Massood Zandi Atashbar
8572	A Compact, Dual Channel Flow-Based Differential Pressure Sensor with mPa Resolution and Sub-10 mW Power Consumption	Massimo Piotto , Simone Del Cesta , Paolo Bruschi
8573	Temperature-Aware Time Synchronization with an Accuracy-Efficiency Trade-Off in Wireless Sensor Networks	Sataporn Pornpromlikit, Wasan Lasoi
8574	MWCNT-PDMS Nanocomposite Based Flexible Multifunctional Sensor for Health Monitoring	Rajarajan Ramalingame, Naveen Udhayakumarana, Itamar Neckel, Renato Torres, Christian Mueller, Olfa Kanoun
8576	Design of a Thermoelectric Energy Harvesting Module for a Wireless Air Induction Pressure Measurement in Vehicles	Bilsay Sümer, Enis Kadir San
8577	Novel Screen Printed Flexible Magnetolectric Thin Film Sensor	Amer Abdulmahdi Chlaihawi, Sepehr Emamian, Binu Baby Narakathu, Mohammed Mohammed Ali, Dinesh Maddipatla, Bradley Bazuin, Massood Atashbar
8578	Towards Improved Classification of Black Tea Quality Using Cross-Perception Fusion Model of Electronic Nose and Electronic Tongue	Runu Banerjee , Mahuya Bhattacharyya , Rajib Bandyopadhyay , Nabarun Bhattacharyya
8579	Synthesis of C-Axis Tilted AlN Layers for Sensing Applications	Cinzia Caliendo, Muhammadh Hamidullah, Francesco Mattioli

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8581	Fabrication of Ultrathin Large-Area Dielectric Membrane Stacks for Use As Interference Filters	Mohammadmir Ghaderi, Ger de Graaf, Reinoud F. Wolffenbuttel
8582	Chemoresistive Gas Sensors for Sub-Ppm Acetone Detection	Ambra Fioravanti , Sara Morandi , Maria Cristina Carotta
8583	A Study on a Lattice Resistance Mesh Model of Display Cathode Electrode for Capacitive Touch Screen Panel Sensors	Chang-Ju Lee, Jong Kang Park, Jung-Hoon Chun
8584	Circuits for the Charge Push-Through Electronics: Power Efficient Signal Processing Inside the Artificial Cochlear Implant	Jaromir Zak, Jaromir Hubalek, Jan Prasek, Jan Pekarek, Vojtech Svatos, Zdenek Hadas, Daniel Dusek
8585	Dosimetric Probe Based on Small-Thickness GaN Transducer	Pierrick Guiral , Guo Neng Lu , Patrick Pittet , Jean Marc Galvan , Alain Rivoire , Julien Ribouton , Patrice Jalade
8586	Optical Properties and Instrumental Performance of Thin Noble Metal (Cu, Au, Ag) Films Near the Surface Plasmon Resonance	Antonio Marcus Lima , Leiva Oliveira , Helmut Neff
8587	PEDOT:PSS: a Conductive and Flexible Polymer for Sensor Integration in Organ-on-Chip Platforms	William Quiros, Nikolas Gaio, Gregory Pandraud, Lina Sarro
8588	Preparation and Biosensing Performance of Porous-Alumina-Assisted Gold Nanostructures on Substrates	Alexander Mozalev , Hamdi Baccar , Adnane Abdelghani
8589	Non-Invasive Method for Blood Glucose Measurement Using Multi-Sensor	Ankush Druggal, Jyoti Yadav; Asha Rani, Vijander Singh, Bhaskar Murari, Akash Mehraulia
8591	The Bladder Pill: Towards Continuous Bladder Pressure Monitoring via Wireless Power and Communication	Marko Bakula , Ayodhia Soebadi , Dirk De Ridder , Robert Puers
8592	The Effect of Reflow Process on the Physical Properties of Die Attach Adhesives	Mohammad Ali Fard Sanej, Laura Frisk
8594	Comparison on Powering Passive Sensor RFID via Variation of Modulation Indexes	Peter Kuhn , Philip Schmidt
8595	A Smart Microelectromechanical Switch Triggered by Gas	Adam Bouchaala, Nizar Jaber, Osama Shekhah, Valeriya Chernikova, Mohamed Eddaoudi, Mohammad Younis

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8596	Piezo-Force and Vibration Analyses of ZnO nanorod Arrays for Sensor Applications	Björn Christian , János Volk , István Endre Lukács , N. Q. Khanh , Chris Sturm , Marius Grundmann , Holger Hochmuth , Oliver Ambacher , Lebedev Vadim
8598	PTAT-Based Heat-Flux Sensor for the Measurement of Power Losses Through a Calorimetric Apparatus	Demetrio Iero, Francesco Giuseppe Della Corte, Massimo Merenda, Corrado Felini
8599	Dynamic Circuit Model for Spintronic Devices	Meshal Alawein, Hossein Fariborzi
8600	NH ₃ Loading on a SCR NO _x -Reduction Catalyst Measured Using the RF Resonator Cavity Method: Additional Factors Affecting the Sensitivity	David Kubinski , Andreas Bogner
8602	Thermal-Electrical Impedance Spectroscopy for Fluid Characterisation	Martin Jaegle , Hans-Fridtjof Pernau , Marcus Pfützner , Mike Benkendorf , Alexandre Jacquot , Jürgen Wöllenstein
8604	Pulsed Excitation of Thermal Flow Sensors for Reduced Power Consumption and Expanded Measurement Range	Nico Hartgenbusch
8605	Experimental and Numerical Assessment of the Multi-Physics Dynamic Response for a MEMS Accelerometer at Various Gaps	Raffaele Ardito , Biagio De Masi , Fabrizio Cerini , Marco Ferrari , Vittorio Ferrari , Alfio Russo , Mikel Azpeitia Urquia , René Sedmik
8606	Reliability of Anisotropic Conductive Adhesive Flip Chip Attached Humidity Sensors in Prolonged Hygrothermal Exposure	Laura Frisk, Sanna Lahokallio, Milad Mostofizadeh, Anniina Parviainen, Janne Kiilunen
8608	Nanoparticles Electrical Analysis and Detection with a Solid-State nanopore in a Microfluidic Device	Jean Roman , Olivier Francais , Nathalie Jarroux , Gilles Patriarche , Juan Pelta , Bruno Le Pioufle , Laurent Bacri
8610	The Effect of Elevated Water Sample Temperature on the Performance of a Custom-Developed Colorimetric Arsenic Sensor	Péter Nagy, Attila Bonyár, Hunor Sántha, Gábor Harsányi
8611	Low-Voltage, High-Tuning Range MEMS Variable Capacitor Using Closed-Loop Control	Eurico Esteves Moreira , Jorge Cabral , João Gaspar , Luis Alexandre Rocha
8612	Complex Permittivity Measurement by Fano-Resonance	Zoltán Szalay, Lajos Nagy
8613	Comparative Analysis of Sens Substrates of Different Morphology	István Rigó , Miklós Veres , László Himics , Sára Tóth , Aladár Czitrovsky , Attila Nagy , Péter Fürjes
8614	Investigation on Different Damping Mechanisms on the Q Factor of MEMS Resonators	Tomas Neuzil , Michael Schneider , Ulrich Schmid

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8615	Multiphysics Analysis and Experimental Validation of Air Coupled Piezoelectric Micromachined Ultrasonic Transducer with Residual Stresses	Gianluca Massimino , Luca D'Alessandro , Francesco Procopio , Raffaele Ardito , Marco Ferrera , Alberto Corigliano
8616	Highly Sensitive Hydrogen Gas Sensors Based on Gold Nanoparticle Decorated Zinc Oxide nanosheets	Aled Lewis , Josef Náhlík , Daniel Jones , Thierry Maffei
8617	A Passive UHF-RFID Tag with Computational and Sensing Capabilities for the Internet of Things	Massimo Merenda, Ivan Farris, Corrado Felini, Sara Pizzi, Antonio Iera, Francesco Della Corte, Antonella Molinaro, Riccardo Carotenuto
8618	Integrated Piezoelectric Nanowire Arrays for High Resolution Tactile Mapping	János Volk , János Radó , István Endre Lukács , Nguyen Quoc Khánh , Róbert Erdélyi , Gábor Battistig , Chris Sturm , Marius Grundmann , Alain Graillot
8619	Primary Side Circuit Design of a Multi-Coil Inductive System for Powering Wireless Sensors	Ghada Bouattour , Bilel Kallel , Olfa Kanoun , Nabil Derbel
8620	A Time-Gated Contactless Interrogation System for Frequency and Quality Factor Tracking in QCR to Investigate on Liquid Solution microdroplets	Marco Ferrari, Marco Baù, Mehedi Masud, Vittorio Ferrari
8621	Low-Cost Discrete Off-the-Shelf Components 1MHz Analogue Lock-in Amplifier for Fast Detection of Organic Compounds Through Pulsed Lasers	Andrea De Marcellis , Elia Palange , Nicola Liberatore , Sandro Mengali
8622	Mask-Less Direct-Writing Deposition of Lead-Free Piezoelectric Films for Microsystems	Marco Ferrari , Simone Dalola , Vittorio Ferrari , Giulio Cordaro , Cinzia Cristiani , Giovanni Dotelli
8623	SiC-FET Sensors for Selective and Quantitative Detection of VOCs Down to ppb Level	Mike Andersson, Anita Lloyd Spetz, Donatella Puglisi
8625	Strain Energy Harvester Powered Wireless Sensor Node for Aircraft Structural Health Monitoring	Zheng Jun Chew, Tingwen Ruan, Meiling Zhu
8626	VLF Sensors for Lightnings Research	Vladimir Mochalov , Rustam Karimov , Boris Shevtsov , Gennadiy Drugin , Nina Cherneva , Anastasia Mochalova , Dmitriy Sannikov , János Lichtenberger
8627	Water Jet Actuation for Ultra-Low Cost Endoscopy: Characterization of Miniature Nozzles Fabricated by Rapid Prototyping	Federico Campisano , Francesco Gramuglia , Imro Dawson , Keith Obstein , Sarthak Misra , Elena De Momi , Pietro Valdastri

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8628	A Prism-Based Polymeric Surface Plasmon Resonance Biochip for Angular and Spectral Modes	Leiva Oliveira , Cleumar Moreira , Antonio Lima , Helmut Neff
8629	Nanopore Formation to Thin Solid Membrane in Electrolyte Solution Using Dielectric Breakdown	Kentaro Kawai , Yuichi Shibuno , Takumi Hayashi , Zhipeng Ma , Naoki Yamashita , Seongsu Park , Kenta Arima , Mizuho Morita , Osamu Tabata
8630	Modelling, Simulation and Experimental Analysis of Metal-Polymer Multifilament Fibre Based Microstrip Resonator for High Frequency Characterisation	Manuel Schimmack , Wolfgang Taute , Michael Hoeft
8632	Development of New Colorimetric and Fluorescent Receptor: in Vivo Monitoring and Approaches	Young-A Son, Ji-Yong Hwang, Satheshkuma Angupillai
8637	Infrared Detector with Directly Grown Carbon Nanotubes As the Absorption Layer	Vojtech Svatos, Pavel Neuzil, Imrich Gablech, Jan Pekarek, Jaromir Hubalek
8638	Single-Walled Carbon Nanotubes functionalized with Platinum nanoparticles Synthesized by UV Irradiation for Chlorine Detection	Sun-Woo Choi, Jaeseong Kim, Sun Ho Kim, Young Tae Byun
8640	Spread Spectrum Based RFID Position Estimation for Sensor Applications	Martin Brandl
8641	Photoelastic Torque Sensor Development for Measurement of Starting Torque of a DC micromotor	Attila Bojtos, Norbert Szakály
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8646	Paper-based Humidity Sensor Coated with ZnO Nanoparticles: The Influence of ZnO	Georgios Niarchos, Georges Dubourg, George Afroudakis, Vasiliki Tsouti, Eleni Makarona, Jovan Matovic, Vesna Crnojevic-Bengin, Christos Tsamis
8647	Performance optimization of ZnO nanostructure-based flexible energy harvesters	George Skoufias, Vasiliki Tsouti, Eleni Makarona, Georgios Niarchos, Martha Botzakaki, Stavroula Georga, Christoforos Krontiras, Vesna Crnojevic-Bengin, Christos Tsamis

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8648	Towards the fabrication of a microfluidic based integrated circulating tumor cell sensor	Gabor Jarvas, Brigitta Meszaros, Bea Borza, Laszlo Hajba, Marton Szigeti, Andras Guttman