

Patrick Wagner

List of Publications by Year in descending order

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285
papers

5,585
citations

76326

40
h-index

133252

59
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289
all docs

289
docs citations

289
times ranked

5780
citing authors

#	ARTICLE	IF	CITATIONS
1	Low Cost, Sensitive Impedance Detection of <i>E. coli</i> Bacteria in Food Matrix Samples Using Surface-Imprinted Polymers as Whole-Cell Receptors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2022, 219, 2100405.	1.8	5
2	Integrating Thermal Sensors in a Microplate Format: Simultaneous Real-Time Quantification of Cell Number and Metabolic Activity. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 2440-2451.	8.0	3
3	Ionic strength tunes yeast viscoelasticity and promotes trace-level cell detection. <i>Physics in Medicine</i> , 2022, 14, 100049.	1.3	3
4	Field-Effect Capacitors Decorated with Ligand-Stabilized Gold Nanoparticles: Modeling and Experiments. <i>Biosensors</i> , 2022, 12, 334.	4.7	2
5	Depletion of wild-type target enhances the hybridization-based sensitivity of low-abundant mutation detection by reference capture probes. <i>Sensors and Actuators B: Chemical</i> , 2022, 368, 132175.	7.8	2
6	Synchronized, Spontaneous, and Oscillatory Detachment of Eukaryotic Cells: A New Tool for Cell Characterization and Identification. <i>Advanced Science</i> , 2022, 9, .	11.2	4
7	Electropolymerized Receptor Coatings for the Quantitative Detection of Histamine with a Catheter-Based, Diagnostic Sensor. <i>ACS Sensors</i> , 2021, 6, 100-110.	7.8	7
8	Ionic strength controls long-term cell-surface interactions – A QCM-D study of <i>S. cerevisiae</i> adhesion, retention and detachment. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 583-595.	9.4	12
9	Introducing a Thermal-Based Method for Measuring Dynamic Thin Film Thickness in Real Time as a Tool for Sensing Applications. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-10.	4.7	5
10	Measuring Thermal Conductivity in a Microfluidic Device With the Transient Thermal Offset (TTO) Method. <i>IEEE Sensors Journal</i> , 2021, 21, 7298-7307.	4.7	4
11	Pulsed Thermal Method for Monitoring Cell Proliferation in Real-Time. <i>Sensors</i> , 2021, 21, 2440.	3.8	5
12	Selective <i>Campylobacter</i> detection and quantification in poultry: A sensor tool for detecting the cause of a common zoonosis at its source. <i>Sensors and Actuators B: Chemical</i> , 2021, 332, 129484.	7.8	17
13	The hot-wire concept: Towards a one-element thermal biosensor platform. <i>Biosensors and Bioelectronics</i> , 2021, 179, 113043.	10.1	7
14	Light-Addressable Actuator-Sensor Platform for Monitoring and Manipulation of pH Gradients in Microfluidics: A Case Study with the Enzyme Penicillinase. <i>Biosensors</i> , 2021, 11, 171.	4.7	18
15	Detection of yeast strains by combining surface-imprinted polymers with impedance-based readout. <i>Sensors and Actuators B: Chemical</i> , 2021, 340, 129917.	7.8	13
16	Assessing the impact of exposome on the course of chronic obstructive pulmonary disease and cystic fibrosis. <i>Environmental Epidemiology</i> , 2021, 5, e165.	3.0	4
17	Formation of controllable pH gradients inside microchannels by using light-addressable electrodes. <i>Sensors and Actuators B: Chemical</i> , 2021, 346, 130422.	7.8	4
18	Passive permeability assay of doxorubicin through model cell membranes under cancerous and normal membrane potential conditions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020, 146, 133-142.	4.3	11

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19	Searching for a common origin of heat-transfer effects in bio- and chemosensors: A study on thiols as a model system. <i>Sensors and Actuators B: Chemical</i> , 2020, 310, 127627.	7.8	6
20	Development of a package-sterilization process for aseptic filling machines: A numerical approach and validation for surface treatment with hydrogen peroxide. <i>Sensors and Actuators A: Physical</i> , 2020, 303, 111691.	4.1	9
21	An imaging study and spectroscopic curing analysis on polymers for synthetic whole-cell receptors for bacterial detection. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SD0802.	1.5	2
22	LAPS-based monitoring of metabolic responses of bacterial cultures in a paper fermentation broth. <i>Sensors and Actuators B: Chemical</i> , 2020, 320, 128232.	7.8	9
23	QCM-D Study of Time-Resolved Cell Adhesion and Detachment: Effect of Surface Free Energy on Eukaryotes and Prokaryotes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18258-18272.	8.0	43
24	Understanding the Dehydration Stress in Lipid Vesicles by a Combined Quartz Crystal Microbalance and Dielectric Spectroscopy Study. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900986.	1.8	4
25	Towards a catheter-based impedimetric sensor for the assessment of intestinal histamine levels in IBS patients. <i>Biosensors and Bioelectronics</i> , 2020, 158, 112152.	10.1	13
26	Measuring Thermal Conductivity in a Microfluidic Device with the Transient Thermal Offset (TTO) Method. , 2020, , .		0
27	A LAPS-Based Differential Sensor for Parallelized Metabolism Monitoring of Various Bacteria. <i>Sensors</i> , 2019, 19, 4692.	3.8	11
28	Development of an in-line evaporation unit for the production of gas mixtures containing hydrogen peroxide – numerical modeling and experimental results. <i>International Journal of Heat and Mass Transfer</i> , 2019, 143, 118519.	4.8	4
29	Quantitative differential monitoring of the metabolic activity of <i>Corynebacterium glutamicum</i> cultures utilizing a light-addressable potentiometric sensor system. <i>Biosensors and Bioelectronics</i> , 2019, 139, 111332.	10.1	11
30	Sensitive and specific detection of <i>E. coli</i> using biomimetic receptors in combination with a modified heat-transfer method. <i>Biosensors and Bioelectronics</i> , 2019, 136, 97-105.	10.1	43
31	Laser-Grafted Molecularly Imprinted Polymers for the Detection of Histamine from Organocatalyzed Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 2019, 52, 2304-2313.	4.8	27
32	A compact device for simultaneous dielectric spectroscopy and microgravimetric analysis under controlled humidity. <i>Review of Scientific Instruments</i> , 2019, 90, 125106.	1.3	1
33	Cell detection by surface imprinted polymers SIPs: A study to unravel the recognition mechanisms. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 907-917.	7.8	41
34	Scalable fabrication and application of nanoscale IDE-arrays as multi-electrode platform for label-free biosensing. <i>Sensors and Actuators B: Chemical</i> , 2018, 265, 115-125.	7.8	14
35	Impedimetric Sensing of DNA with Silicon Nanowire Transistors as Alternative Transducer Principle. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700740.	1.8	14
36	Graphite oxide electrical sensors are able to distinguish single nucleotide polymorphisms in physiological buffers. <i>FlatChem</i> , 2018, 7, 1-9.	5.6	5

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37	SIP-Based Thermal Detection Platform for the Direct Detection of Bacteria Obtained from a Contaminated Surface. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700777.	1.8	3
38	ScFv-modified graphene-coated IDE-arrays for "label-free"™ screening of cardiovascular disease biomarkers in physiological saline. <i>Biosensors and Bioelectronics</i> , 2018, 102, 574-581.	10.1	20
39	A Novel Modular Device for Biological Impedance Measurements: The Differential Impedimetric Sensor Cell (DISC). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1701029.	1.8	3
40	Thermocatalytic Behavior of Manganese (IV) Oxide as Nanoporous Material on the Dissociation of a Gas Mixture Containing Hydrogen Peroxide. <i>Nanomaterials</i> , 2018, 8, 262.	4.1	29
41	Cell detection by surface imprinted polymers (SIPs) " A study of the sensor surface by optical and dielectric relaxation spectroscopy. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018, 25, 816-821.	2.9	7
42	Experimental and Numerical Analyzes of a Sensor Based on Interdigitated Electrodes for Studying Microbiological Alterations. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700920.	1.8	1
43	Optimization of Cell-Based Multi-Chamber LAPS Measurements Utilizing FPGA-Controlled Laser-Diode Modules. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800058.	1.8	6
44	Electrochemical Evaluation of Light-Addressable Electrodes Based on TiO ₂ for the Integration in Lab-on-a-Chip Systems. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800150.	1.8	5
45	High Electronic Conductance through Double-Helix DNA Molecules with Fullerene Anchoring Groups. <i>Journal of Physical Chemistry A</i> , 2017, 121, 1182-1188.	2.5	30
46	Optimization and characterization of a flow cell for heat-transfer-based biosensing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1600758.	1.8	8
47	Development of an impedimetric sensor for the label-free detection of the amino acid sarcosine with molecularly imprinted polymer receptors. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 461-470.	7.8	65
48	Biomimetic Bacterial Identification Platform Based on Thermal Wave Transport Analysis (TWTA) through Surface-Imprinted Polymers. <i>ACS Infectious Diseases</i> , 2017, 3, 388-397.	3.8	33
49	Label-Free Detection of Small Organic Molecules by Molecularly Imprinted Polymer Functionalized Thermocouples: Toward In Vivo Applications. <i>ACS Sensors</i> , 2017, 2, 583-589.	7.8	31
50	Differential imaging of the metabolism of bacteria and eukaryotic cells based on light-addressable potentiometric sensors. <i>Electrochimica Acta</i> , 2017, 246, 234-241.	5.2	24
51	Anisotropic In-Situ-Coated AuNPs on Screen-Printed Carbon Surface for Enhanced Prostate-Specific Antigen Impedimetric Aptasensor. <i>Journal of Electronic Materials</i> , 2017, 46, 3542-3552.	2.2	16
52	Engineering of Functional Interfaces. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1770154.	1.8	0
53	From colossal magnetoresistance to solar cells: An overview on 66 years of research into perovskites. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1700394.	1.8	15
54	Real-time monitoring of interactions between Ebola fusion peptide and solid-supported phospholipid membranes: Effect of peptide concentration and layer geometry. <i>Physics in Medicine</i> , 2017, 4, 1-7.	1.3	9

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55	Heat Transfer as a New Sensing Technique for the Label-Free Detection of Biomolecules. Springer Series on Chemical Sensors and Biosensors, 2017, , 383-407.	0.5	1
56	Single-Shot Detection of Neurotransmitters in Whole-Blood Samples by Means of the Heat-Transfer Method in Combination with Synthetic Receptors. Sensors, 2017, 17, 2701.	3.8	16
57	On-Line Monitoring of the Metabolic Activity of Bacteria and Eukaryotic Cells Utilizing Light-Addressable Potentiometric Sensors. Proceedings (mdpi), 2017, 1, 716.	0.2	1
58	FEM-based modeling of a calorimetric gas sensor for hydrogen peroxide monitoring. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600912.	1.8	6
59	Formation and electrical characterization of black lipid membranes in porous filter materials. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700104.	1.8	4
60	Determination of the extracellular acidification of <i>Escherichia coli</i> K12 with a multi-chamber-based LAPS system. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1479-1485.	1.8	20
61	DNA detection with top-down fabricated silicon nanowire transistor arrays in linear operation regime. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1510-1519.	1.8	13
62	Fabrication of optomicrofluidics for real-time bioassays based on hollow sphere colloidal photonic crystals with wettability patterns. Journal of Materials Chemistry C, 2016, 4, 7853-7858.	5.5	27
63	Label-Free Detection of <i>Escherichia coli</i> Based on Thermal Transport through Surface Imprinted Polymers. ACS Sensors, 2016, 1, 1140-1147.	7.8	64
64	A Review on Synthetic Receptors for Bioparticle Detection Created by Surface-Imprinting Techniques—From Principles to Applications. ACS Sensors, 2016, 1, 1171-1187.	7.8	99
65	Engineering of Functional Interfaces 2016. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1393-1394.	1.8	0
66	Improved Molecular Imprinting Based on Colloidal Particles Made from Miniemulsion: A Case Study on Testosterone and Its Structural Analogues. Macromolecules, 2016, 49, 2559-2567.	4.8	23
67	Heat-transfer based characterization of DNA on synthetic sapphire chips. Sensors and Actuators B: Chemical, 2016, 230, 260-271.	7.8	10
68	Light-addressable Potentiometric Sensor (LAPS) Combined with Multi-chamber Structures to Investigate the Metabolic Activity of Cells. Procedia Engineering, 2015, 120, 384-387.	1.2	9
69	Engineering of Functional Interfaces. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1183-1183.	1.8	0
70	Graphite oxide multilayers for device fabrication: Enzyme-based electrical sensing of glucose. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1335-1341.	1.8	7
71	Impedimetric immunosensor for the detection of histamine based on reduced graphene oxide. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1327-1334.	1.8	21
72	Study of Interdigitated Electrode Arrays Using Experiments and Finite Element Models for the Evaluation of Sterilization Processes. Sensors, 2015, 15, 26115-26127.	3.8	33

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73	Real-time analysis of dual-display phage immobilization and autoantibody screening using quartz crystal microbalance with dissipation monitoring. <i>International Journal of Nanomedicine</i> , 2015, 10, 5237.	6.7	2
74	Phase Transitions of Binary Lipid Mixtures: A Combined Study by Adiabatic Scanning Calorimetry and Quartz Crystal Microbalance with Dissipation Monitoring. <i>Advances in Condensed Matter Physics</i> , 2015, 2015, 1-14.	1.1	27
75	Monitoring of the Enzymatically Catalyzed Degradation of Biodegradable Polymers by Means of Capacitive Field-Effect Sensors. <i>Analytical Chemistry</i> , 2015, 87, 6607-6613.	6.5	7
76	Photonic studies on polymer-coated sapphire-spheres: A model system for biological ligands. <i>Sensors and Actuators A: Physical</i> , 2015, 222, 212-219.	4.1	2
77	Heat-Transfer-Method-Based Cell Culture Quality Assay through Cell Detection by Surface Imprinted Polymers. <i>Langmuir</i> , 2015, 31, 2043-2050.	3.5	29
78	Improving the sensitivity of the heat-transfer method (HTM) for cancer cell detection with optimized sensor chips. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 1320-1326.	1.8	13
79	Morphological TEM studies and magnetoresistance analysis of sputtered Al-substituted ZnO films: The role of oxygen. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 1191-1201.	1.8	1
80	Detection of triacetone triperoxide using temperature cycled metal-oxide semiconductor gas sensors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 1289-1298.	1.8	9
81	Mechanism of Nonpolar Model Substances to Inhibit Primary Gushing Induced by Hydrophobin HFBI. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 4673-4682.	5.2	2
82	Effect of Cholesterol on the Phase Behavior of Solid-Supported Lipid Vesicle Layers. <i>Journal of Physical Chemistry B</i> , 2015, 119, 4985-4992.	2.6	22
83	Label-free Protein Detection Based on the Heat-Transfer Method—A Case Study with the Peanut Allergen Ara h 1 and Aptamer-Based Synthetic Receptors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10316-10323.	8.0	32
84	An application of field-effect sensors for in-situ monitoring of degradation of biopolymers. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 954-959.	7.8	4
85	Multiple sensor-type system for monitoring the microbicidal effectiveness of aseptic sterilisation processes. <i>Food Control</i> , 2015, 47, 615-622.	5.5	4
86	Heat-transfer-based detection of SNPs in the PAH gene of PKU patients. <i>International Journal of Nanomedicine</i> , 2014, 9, 1629.	6.7	9
87	Elastic scattering from a sapphire microsphere placed on a silica optical fiber coupler: Possible applications to biosensing. <i>European Physical Journal: Special Topics</i> , 2014, 223, 1995-2002.	2.6	3
88	Array Formatting of the Heat-Transfer Method (HTM) for the Detection of Small Organic Molecules by Molecularly Imprinted Polymers. <i>Sensors</i> , 2014, 14, 11016-11030.	3.8	23
89	Enzymatically Catalyzed Degradation of Biodegradable Polymers Investigated by Means of a Semiconductor-based Field-effect Sensor. <i>Procedia Engineering</i> , 2014, 87, 1314-1317.	1.2	0
90	Reduced graphene oxide-based sensing platform for electric cell-substrate impedance sensing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1404-1409.	1.8	8

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91	Engineering of Functional Interfaces. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1339-1339.	1.8	0
92	Melittin disruption of raft and non-raft-forming biomimetic membranes: A study by quartz crystal microbalance with dissipation monitoring. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 123, 938-944.	5.0	24
93	Photonic detection and characterization of DNA using sapphire microspheres. <i>Journal of Biomedical Optics</i> , 2014, 19, 097006.	2.6	7
94	Capacitively coupled electrolyte-conductivity sensor based on high-k material of barium strontium titanate. <i>Sensors and Actuators B: Chemical</i> , 2014, 198, 102-109.	7.8	25
95	Buchwald's Hartwig reactions in water using surfactants. <i>Tetrahedron</i> , 2014, 70, 3413-3421.	1.9	42
96	Multiparameter Sensor Chip with Barium Strontium Titanate as Multipurpose Material. <i>Electroanalysis</i> , 2014, 26, 980-987.	2.9	8
97	Phase transitions in lipid vesicles detected by a complementary set of methods: heat-transfer measurements, adiabatic scanning calorimetry, and dissipation-mode quartz crystal microbalance. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1377-1388.	1.8	41
98	Integration of heat-transfer resistance measurements onto a digital microfluidic platform towards the miniaturized and automated label-free detection of biomolecular interactions. , 2014, , .		0
99	Boron-Doped Diamond Functionalization by an Electrografting/Alkyne's Azide Click Chemistry Sequence. <i>ChemElectroChem</i> , 2014, 1, 1145-1154.	3.4	21
100	t-BuXPhos: a highly efficient ligand for Buchwald's Hartwig coupling in water. <i>Green Chemistry</i> , 2014, 16, 4170-4178.	9.0	62
101	Homopolymers as nanocarriers for the loading of block copolymer micelles with metal salts: a facile way to large-scale ordered arrays of transition-metal nanoparticles. <i>Journal of Materials Chemistry C</i> , 2014, 2, 701-707.	5.5	5
102	Heat transfer resistance as a tool to quantify hybridization efficiency of DNA on a nanocrystalline diamond surface. <i>Diamond and Related Materials</i> , 2014, 48, 32-36.	3.9	8
103	Rapid fabrication of micron-sized CVD-diamond structures by microfluidic contact printing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1448-1454.	1.8	4
104	Thermal detection of histamine with a graphene oxide based molecularly imprinted polymer platform prepared by reversible addition-fragmentation chain transfer polymerization. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 527-535.	7.8	59
105	The Heat-Transfer Method: A Versatile Low-Cost, Label-Free, Fast, and User-Friendly Readout Platform for Biosensor Applications. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13309-13318.	8.0	59
106	Heat-Transfer Resistance Measurement Method (HTM)-Based Cell Detection at Trace Levels Using a Progressive Enrichment Approach with Highly Selective Cell-Binding Surface Imprints. <i>Langmuir</i> , 2014, 30, 3631-3639.	3.5	26
107	Cross-linked degradable poly(β -thioester) networks via amine-catalyzed thiol-ene click polymerization. <i>Polymer</i> , 2014, 55, 3525-3532.	3.8	22
108	Heat-transfer-based detection of l-nicotine, histamine, and serotonin using molecularly imprinted polymers as biomimetic receptors. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6453-6460.	3.7	45

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109	Molecularly imprinted polymers as synthetic receptors for the QCM-D-based detection of l-nicotine in diluted saliva and urine samples. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6479-6487.	3.7	33
110	Molecular imprinted polymer films on RFID tags: a first step towards disposable packaging sensors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 938-944.	1.8	16
111	Selective Identification of Macrophages and Cancer Cells Based on Thermal Transport through Surface-Imprinted Polymer Layers. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7258-7267.	8.0	69
112	Ultrafast Self-Assembly Using Ultrasound: A Facile Route to the Rapid Fabrication of Well-Ordered Dense Arrays of Inorganic Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9709-9713.	13.8	7
113	Impedimetric Detection of Histamine in Bowel Fluids Using Synthetic Receptors with pH-Optimized Binding Characteristics. <i>Analytical Chemistry</i> , 2013, 85, 1475-1483.	6.5	54
114	Combined amperometric/field-effect sensor for the detection of dissolved hydrogen. <i>Sensors and Actuators B: Chemical</i> , 2013, 187, 168-173.	7.8	8
115	Degradation of thin poly(lactic acid) films: Characterization by capacitance-voltage, atomic force microscopy, scanning electron microscopy and contact-angle measurements. <i>Electrochimica Acta</i> , 2013, 113, 779-784.	5.2	11
116	Mobile Application for Impedance-Based Biomimetic Sensor Readout. <i>IEEE Sensors Journal</i> , 2013, 13, 2659-2665.	4.7	27
117	Trisubstitution of pyridine through sequential and regioselective palladium cross-coupling reactions affording analogs of known GPR54 antagonists. <i>RSC Advances</i> , 2013, 3, 10296.	3.6	9
118	A critical comparison of cell-based sensor systems for the detection of Cr(VI) in aquatic environment. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 58-65.	7.8	27
119	Characterization of biodegradable polymers with capacitive field-effect sensors. <i>Sensors and Actuators B: Chemical</i> , 2013, 187, 2-7.	7.8	12
120	Metabolic responses of <i>Escherichia coli</i> upon glucose pulses captured by a capacitive field-effect sensor. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 926-931.	1.8	12
121	Implementing heat transfer resistivity as a key element in a nanocrystalline diamond based single nucleotide polymorphism detection array. <i>Diamond and Related Materials</i> , 2013, 38, 45-51.	3.9	12
122	Impedance spectroscopy: A tool for real-time <i>in situ</i> monitoring of the degradation of biopolymers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 905-910.	1.8	4
123	Chip-based amperometric enzyme sensor system for monitoring of bioprocesses by flow-injection analysis. <i>Journal of Biotechnology</i> , 2013, 163, 371-376.	3.8	51
124	Controlled synthesis of ultrathin ZnO nanowires using micellar gold nanoparticles as catalyst templates. <i>Nanoscale</i> , 2013, 5, 7046.	5.6	15
125	Routine fabrication of reduced graphene oxide microarray devices via all solution processing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 968-974.	1.8	10
126	Preparation of epitaxial films of the transparent conductive oxide Al ₂ O ₃ by reactive high-pressure sputtering in Ar/O ₂ mixtures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1013-1018.	1.8	3

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127	Surface plasmon resonance-based DNA microarrays: Comparison of thiol and phosphorothioate modified oligonucleotides. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 918-925.	1.8	3
128	Using a cell-based gas biosensor for investigation of adverse effects of acetone vapors in vitro. <i>Biosensors and Bioelectronics</i> , 2013, 40, 393-400.	10.1	6
129	Multi-sensor chip for the investigation of different types of metal oxides for the detection of H ₂ O ₂ in the ppm range. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 898-904.	1.8	11
130	Optimizing the Thermal Read-Out Technique for MIP-Based Biomimetic Sensors: Towards Nanomolar Detection Limits. <i>Sensors</i> , 2013, 13, 9148-9159.	3.8	26
131	Combining Electrochemical Impedance Spectroscopy and Surface Plasmon Resonance into one Simultaneous Read-Out System for the Detection of Surface Interactions. <i>Sensors</i> , 2013, 13, 14650-14661.	3.8	7
132	Characterisation of aseptic sterilisation processes using an electronic nose. <i>International Journal of Nanotechnology</i> , 2013, 10, 470.	0.2	2
133	Engineering of Functional Interfaces. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 845-845.	1.8	0
134	Reduced graphene oxide micropatterns as an interface for adherent cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 975-982.	1.8	9
135	Electronic monitoring of chemical DNA denaturation on nanocrystalline diamond electrodes with different molarities and flow rates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 911-917.	1.8	3
136	Cell proliferation monitoring by multiplexed electrochemical impedance spectroscopy on microwell assays. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 882-888.	0.8	2
137	Embedded Unit for Point-of-Care Impedance Based Biosensor Readout. , 2012, , .		0
138	MIP-based Sensor Platforms for Detection of Analytes in Nano- and Micromolar Range. , 2012, , 91-124.		1
139	Monitoring of irritant gas using a whole-cell-based sensor system. <i>Sensors and Actuators B: Chemical</i> , 2012, 175, 208-217.	7.8	12
140	Direct visualization of boron dopant distribution and coordination in individual chemical vapor deposition nanocrystalline B-doped diamond grains. <i>Applied Physics Letters</i> , 2012, 101, 041907.	3.3	61
141	Evidence for phase separation of ethanol-water mixtures at the hydrogen terminated nanocrystalline diamond surface. <i>Journal of Chemical Physics</i> , 2012, 137, 044702.	3.0	11
142	Impact of Functional Groups onto the Electronic Structure of Metal Electrodes in Molecular Junctions. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21810-21815.	3.1	8
143	Analysis of an optical biosensor based on elastic light scattering from diamond, glass, and sapphire microspheres. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 1804-1810.	1.8	11
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282	Superconductivity and transport properties of epitaxial YBa ₂ (Cu _{1-x} Zn _x) ₃ O ₇ -thin films. <i>Superconductor Science and Technology</i> , 1992, 5, S133-S136.	3.5	2
283	In situ-preparation of Bi ₂ Sr ₂ CaCu ₂ O _y -thin films by DC-sputtering. <i>Physica C: Superconductivity and Its Applications</i> , 1992, 195, 258-262.	1.2	40
284	Thermally activated flux-flow in epitaxially grown YBa ₂ (Cu _{1-x} Zn _x) ₃ O _{7-δ} thin films. <i>Physica C: Superconductivity and Its Applications</i> , 1991, 185-189, 2175-2176.	1.2	6
285	Growth of high quality YBa ₂ Cu ₃ O ₇ films on various substrate materials and influence of Zn-doping on superconductivity. <i>Physica C: Superconductivity and Its Applications</i> , 1990, 171, 231-237.	1.2	41