

Dorota Genowefa Pijanowska

List of Publications by Year in descending order

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122
papers

1,288
citations

394421

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125
all docs

125
docs citations

125
times ranked

1368
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosensor based on coupled enzyme reactions for determination of arginase activity. Bioelectrochemistry, 2022, 146, 108137.	4.6	1
2	Nanohollow Titanium Oxide Structures on Ti/FTO Glass Formed by Step-Bias Anodic Oxidation for Photoelectrochemical Enhancement. Nanomaterials, 2022, 12, 1925.	4.1	2
3	Electrochemical stability of TiO ₂ nanotubes deposited with silver and gold nanoparticles in aqueous environment. Environmental Nanotechnology, Monitoring and Management, 2021, 15, 100401.	2.9	5
4	Effects of genetically modified human skin fibroblasts, stably overexpressing hepatocyte growth factor, on hepatic functions of cocultured C3A cells. Biotechnology and Bioengineering, 2021, 118, 72-81.	3.3	3
5	An integrated actuating and sensing system for light-addressable potentiometric sensor (LAPS) and light-actuated AC electroosmosis (LACE) operation. Biomicrofluidics, 2021, 15, 024109.	2.4	3
6	System for quantitative evaluation of DAB&H-stained breast cancer biopsy digital images (CHISEL). Scientific Reports, 2021, 11, 9291.	3.3	3
7	Cell-based clinical and experimental methods for assisting the function of impaired livers – Present and future of liver support systems. Biocybernetics and Biomedical Engineering, 2021, 41, 1322-1322.	5.9	2
8	Fabrication of Electrochemical Biosensor Based on Titanium Dioxide Nanotubes and Silver Nanoparticles for Heat Shock Protein 70 Detection. Materials, 2021, 14, 3767.	2.9	20
9	A real-time mirror-LAPS mini system for dynamic chemical imaging and cell acidification monitoring. Sensors and Actuators B: Chemical, 2021, 341, 130003.	7.8	11
10	Electrodes Based on a Titanium Dioxide Nanotube – Spherical Silver Nanoparticle Composite for Sensing of Proteins. ACS Biomaterials Science and Engineering, 2021, 7, 105-113.	5.2	4
11	Highly Stable Potentiometric (Bio)Sensor for Urea and Urease Activity Determination. Membranes, 2021, 11, 898.	3.0	5
12	Comparison of Gold Nanoparticles Deposition Methods and Their Influence on Electrochemical and Adsorption Properties of Titanium Dioxide Nanotubes. Materials, 2020, 13, 4269.	2.9	18
13	Potentiometric Solid-Contact Ion-Selective Electrode for Determination of Thiocyanate in Human Saliva. Sensors, 2020, 20, 2817.	3.8	14
14	Photoelectrochemical Detection of β -amyloid Peptides by a TiO ₂ Nanobrush Biosensor. IEEE Sensors Journal, 2020, 20, 6248-6255.	4.7	9
15	Genetically modified C3A cells with restored urea cycle for improved bioartificial liver. Biocybernetics and Biomedical Engineering, 2020, 40, 378-387.	5.9	4
16	Nuclei Detection with Local Threshold Processing in DAB&H Stained Breast Cancer Biopsy Images. Lecture Notes in Computer Science, 2020, , 164-175.	1.3	2
17	Clustered nuclei splitting based on recurrent distance transform in digital pathology images. Eurasip Journal on Image and Video Processing, 2020, 2020, .	2.6	6
18	Influence of geometry and annealing temperature in argon atmosphere of TiO ₂ nanotubes on their electrochemical properties. Acta of Bioengineering and Biomechanics, 2020, 22, .	0.4	11

#	ARTICLE	IF	CITATIONS
19	Influence of geometry and annealing temperature in argon atmosphere of TiO ₂ nanotubes on their electrochemical properties. <i>Acta of Bioengineering and Biomechanics</i> , 2020, 22, 165-177.	0.4	4
20	Influence of the Silver Nanoparticles (AgNPs) Formation Conditions onto Titanium Dioxide (TiO ₂) Nanotubes Based Electrodes on Their Impedimetric Response. <i>Nanomaterials</i> , 2019, 9, 1072.	4.1	27
21	The computational methods in the development of a novel multianalyte calibration technique for potentiometric integrated sensors systems. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 2251-2260.	2.5	6
22	A miniaturized solid-contact potentiometric multisensor platform for determination of ionic profiles in human saliva. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 3299-3308.	2.5	20
23	The Influence of the Parameters of a Gold Nanoparticle Deposition Method on Titanium Dioxide Nanotubes, Their Electrochemical Response, and Protein Adsorption. <i>Biosensors</i> , 2019, 9, 138.	4.7	12
24	Comparative Study on Voltammetric and Spectrofluorimetric Methods for Fluorescein Detection. <i>International Journal of Electrochemical Science</i> , 2019, 14, 3764-3776.	1.3	5
25	Enzymatic method of urea determination in LTCC microfluidic system based on absorption photometry. <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 375-384.	7.8	17
26	Screen printed graphene electrodes for voltammetric dopamine determination. , 2019, , .		1
27	The Analysis of the Shape of the Genetically Modified Human Skin Fibroblasts in Culture. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 98-109.	0.6	0
28	The analysis of the movement of the genetically modified human skin fibroblasts in culture. , 2018, , .		1
29	Multianalyte Calibration Methods for Potentiometric Integrated Sensors System for Determination of Ions Concentration in a Body Fluids. , 2018, , .		4
30	Evaluation of Fluorescein as a Label in Electrochemical and Optical Measurements. , 2018, , .		1
31	Mathematical Modeling of LTCC Based Microfluidic Type Chemical Microreactor. , 2018, , .		0
32	Selective Electrochemical Detection of Pirarubicin by Means of DNA-modified Graphite Biosensor. <i>Electroanalysis</i> , 2017, 29, 1810-1819.	2.9	7
33	Spiral Concentric Two Electrode Sensor Fabricated by Direct Writing for Skin Impedance Measurements. <i>IEEE Sensors Journal</i> , 2017, 17, 5306-5314.	4.7	6
34	Survey: interpolation methods for whole slide image processing. <i>Journal of Microscopy</i> , 2017, 265, 148-158.	1.8	6
35	Liver tissue fragments obtained from males are the most promising source of human hepatocytes for cell-based therapies " Flow cytometric analysis of albumin expression. <i>PLoS ONE</i> , 2017, 12, e0182846.	2.5	5
36	Dried human skin fibroblasts as a new substratum for functional culture of hepatic cells. <i>Acta Biochimica Polonica</i> , 2017, 64, 357-363.	0.5	3

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37	Comparison of Electrochemical Determination of Purines and Pyrimidines by means of Carbon, Graphite and Gold Paste Electrodes. <i>International Journal of Electrochemical Science</i> , 2017, 12, 2329-2343.	1.3	16
38	Impedance Spectroscopy as a Method for the Measurement of Calibrated Glucose Solutions with Concentration Occurring in Human Blood. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 211-216.	0.6	4
39	An implementation of an electronic tongue system based on a multi-sensor potentiometric readout circuit with embedded calibration and temperature compensation. <i>Microelectronics Journal</i> , 2016, 57, 1-12.	2.0	8
40	MIAP – Web-based platform for the computer analysis of microscopic images to support the pathological diagnosis. <i>Biocybernetics and Biomedical Engineering</i> , 2016, 36, 597-609.	5.9	17
41	Color standardization for the immunohistochemically stained tissue section images. , 2016, , .		2
42	P-I-N amorphous silicon for thin-film light-addressable potentiometric sensors. <i>Sensors and Actuators B: Chemical</i> , 2016, 236, 1005-1010.	7.8	17
43	Immunosensors for human cardiac troponins and CRP, in particular amperometric cTnI immunosensor. <i>Biocybernetics and Biomedical Engineering</i> , 2016, 36, 29-41.	5.9	3
44	DNA-based Electrochemical Biosensor for Imipramine Detection. <i>Procedia Engineering</i> , 2015, 120, 574-577.	1.2	7
45	Technology and application of the LTCC-based microfluidic module for urea determination. <i>Microelectronics International</i> , 2015, 32, 126-132.	0.6	5
46	Skin Impedance Measurements by Means of Novel Gold Sensors Fabricated by Direct Writing. <i>Procedia Engineering</i> , 2015, 120, 882-886.	1.2	5
47	An implementation of an electronic tongue system based on a multi-sensor potentiometric readout circuit with embedded calibration and temperature compensation. , 2015, , .		0
48	Nitrogen ratio and RTA optimization on sputtered TiN/SiO ₂ /Si electrolyte-insulator–semiconductor structure for pH sensing characteristics. <i>Vacuum</i> , 2015, 118, 113-117.	3.5	3
49	Analysis of the Cytotoxicity of Carbon-Based Nanoparticles, Diamond and Graphite, in Human Glioblastoma and Hepatoma Cell Lines. <i>PLoS ONE</i> , 2015, 10, e0122579.	2.5	53
50	Ion-selective electrode made with LTCC (low temperature co-fired ceramics) technology. <i>Microelectronics International</i> , 2014, 31, 201-206.	0.6	0
51	DNA Intercalation-based Amperometric Biosensor for Chlorpromazine Detection. <i>Procedia Engineering</i> , 2014, 87, 747-750.	1.2	4
52	The influence of the microscope lamp filament colour temperature on the process of digital images of histological slides acquisition standardization. <i>Diagnostic Pathology</i> , 2014, 9, S13.	2.0	6
53	Surface modification of low and high temperature co-fired ceramics for enzymatic microreactor fabrication. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 873-880.	7.8	19
54	Evaluation of the effects of antibiotics on cytotoxicity of EGFP and DsRed2 fluorescent proteins used for stable cell labeling.. <i>Acta Biochimica Polonica</i> , 2014, 61, .	0.5	4

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55	Evaluation of the effects of antibiotics on cytotoxicity of EGFP and DsRed2 fluorescent proteins used for stable cell labeling. <i>Acta Biochimica Polonica</i> , 2014, 61, 809-13.	0.5	2
56	LAPS with nanoscaled and highly polarized HfO ₂ by CF ₄ plasma for NH ₄ ⁺ detection. <i>Sensors and Actuators B: Chemical</i> , 2013, 180, 71-76.	7.8	24
57	Low cost and flexible electrodes with NH ₃ plasma treatments in extended gate field effect transistors for urea detection. <i>Sensors and Actuators B: Chemical</i> , 2013, 187, 274-279.	7.8	28
58	Low intensity fluorescence light measurements using Silicon Photomultiplier with dedicated front-end ASIC. , 2013, , .		0
59	Microfluidic Platform for Enzyme-Linked and Magnetic Particle-Based Immunoassay. <i>Micromachines</i> , 2013, 4, 257-271.	2.9	17
60	An Innovative Method for Complete Microsensors Fabrication. <i>Procedia Engineering</i> , 2012, 47, 1430-1433.	1.2	4
61	On-line flow injection analysis using gold particle modified carbon electrode amperometric detection for real-time determination of glucose in immobilized enzyme hydrolysate of waste bamboo chopsticks. <i>Journal of Electroanalytical Chemistry</i> , 2012, 666, 32-41.	3.8	18
62	Development of Polymeric Resin Ion-Exchanger Based Chloride Ion-Selective Electrode for Monitoring Chloride Ion in Environmental Water. <i>Journal of the Chinese Chemical Society</i> , 2012, 59, 122-131.	1.4	10
63	Immobilization of enzyme and antibody on ALD-HfO ₂ -EIS structure by NH ₃ plasma treatment. <i>Nanoscale Research Letters</i> , 2012, 7, 179.	5.7	18
64	LTCC Microfluidic Systems for Biochemical Diagnosis. <i>Biocybernetics and Biomedical Engineering</i> , 2011, 31, 31-41.	5.9	9
65	Microfluidics Based System for Amperometric Determination of CRP. <i>Procedia Engineering</i> , 2011, 25, 1221-1224.	1.2	1
66	Electroconductive Polymers in (Bio)chemical Sensors. <i>Biocybernetics and Biomedical Engineering</i> , 2011, 31, 43-57.	5.9	8
67	Optimization of Urea-EnFET Based on Ta ₂ O ₅ Layer with Post Annealing. <i>Sensors</i> , 2011, 11, 4562-4571.	3.8	34
68	Biosensor with Nano-Gold Particle Modified Pencil Lead Carbon Electrode for Long-Term Glucose Monitoring of Waste Tree Branch Hydrolysis. <i>Journal of the Chinese Chemical Society</i> , 2011, 58, 739-748.	1.4	13
69	Low temperature co-fired ceramic (LTCC)-based biosensor for continuous glucose monitoring. <i>Sensors and Actuators B: Chemical</i> , 2011, 155, 923-929.	7.8	18
70	Characterization of K ⁺ and Na ⁺ -Sensitive Membrane Fabricated by CF ₄ Plasma Treatment on Hafnium Oxide Thin Films on ISFET. <i>Journal of the Electrochemical Society</i> , 2011, 158, J91.	2.9	19
71	Transcutaneous Blood Capnometry Sensor Head Based on a Back-Side Contacted ISFET. , 2011, , 607-614.		1
72	Electronic tongue system for remote multi-ion sensing using blind source separation and wireless sensor network. , 2010, , .		2

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73	Hysteresis effect on traps of Si ₃ N ₄ sensing membranes for pH difference sensitivity. Microelectronics Reliability, 2010, 50, 738-741.	1.7	16
74	Body effect minimization using single layer structure for pH-ISFET applications. Sensors and Actuators B: Chemical, 2010, 143, 494-499.	7.8	30
75	Fluorine Incorporation and Thermal Treatment on Single and Stacked Si ₃ N ₄ Membranes for ISFET/REFET Application. Journal of the Electrochemical Society, 2010, 157, J8.	2.9	5
76	Electropolymerization of Methylene Green on Gold and Platinum Electrodes for Quantitative Ascorbic Acid Determination. Sensor Letters, 2010, 8, 713-719.	0.4	1
77	ISFET electronic tongue system for environmental multi-ion sensing with independent component analysis signal processing. Proceedings of SPIE, 2009, , .	0.8	2
78	Optimization of a PVC Membrane for Reference Field Effect Transistors. Sensors, 2009, 9, 2076-2087.	3.8	5
79	LTCC microreactor for urea determination in biological fluids. Sensors and Actuators B: Chemical, 2009, 141, 301-308.	7.8	42
80	Biosensor for Dielectric Spectroscopy of Mitochondria and for Monitoring Ion Activities. Materials Research Society Symposia Proceedings, 2009, 1236, 1.	0.1	0
81	Functionalisation of chemically sensitive surfaces for biosensors and microreactors fabrication. Irbm, 2008, 29, 128-132.	5.6	0
82	Drift and Hysteresis Effects Improved by RTA Treatment on Hafnium Oxide in pH-Sensitive Applications. Journal of the Electrochemical Society, 2008, 155, J326.	2.9	38
83	An Electronic Tongue System Design Using Ion Sensitive Field Effect Transistors and Their Interfacing Circuit Techniques. , 2008, , .		2
84	LTCC fluidic potentiometric detector. , 2008, , .		1
85	Analog processor design for potentiometric sensor array and its applications in smart living space. , 2007, , .		0
86	V<inf>TH</inf> -Extractors Based Readout Circuit of ISFET with Temperature Compensation. , 2007, , .		0
87	Development of a Flow-Thru System Containing a p-Well Type Ion Sensitive Field Effect Transistor Array for Determination of Electrolytes and Urea in Dialysate. , 2007, , .		0
88	LTCC Enzymatic Microreactor. Journal of Microelectronics and Electronic Packaging, 2007, 4, 51-56.	0.7	19
89	Surface Modification for Microreactor Fabrication. Sensors, 2006, 6, 370-379.	3.8	11
90	pH-based Detection of Phenylalanine by Potentiometric and Colorimetric Methods. Sensors, 2006, 6, 428-434.	3.8	2

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91	<title>Amperometric sensors as a basic structures for enzymatic, enzyme-cofactor mediated assays and drugs detection</title>. , 2006, , .		0
92	ISFET performance enhancement by using the improved circuit techniques. Sensors and Actuators B: Chemical, 2006, 113, 555-562.	7.8	27
93	New ISFET interface circuit design with temperature compensation. Microelectronics Journal, 2006, 37, 1105-1114.	2.0	58
94	Chemical Sensing Properties of Electrolyte/SiGe/SiO ₂ /Si Structure. Japanese Journal of Applied Physics, 2006, 45, 6192-6195.	1.5	1
95	The characterization of stacked $\hat{1}\pm$ -Si/SiGe/ $\hat{1}\pm$ -Si sensing membrane. Microelectronic Engineering, 2005, 80, 46-49.	2.4	1
96	A signal processing ASIC for ISFET-based chemical sensors. Microelectronics Journal, 2004, 35, 667-675.	2.0	19
97	A flow-through potentiometric sensor for an integrated microdialysis system. Sensors and Actuators B: Chemical, 2004, 103, 350-355.	7.8	10
98	ISFET interface circuit embedded with noise rejection capability. Electronics Letters, 2004, 40, 1115.	1.0	17
99	A flow-through amperometric sensor for micro-analytical systems. Sensors and Actuators B: Chemical, 2003, 91, 98-102.	7.8	20
100	Immobilisation of bioreceptors for microreactors. Sensors and Actuators B: Chemical, 2003, 91, 152-157.	7.8	17
101	Highly sensitive glucose sensor based on work function changes measured by an EMOSFET. Analyst, The, 2003, 128, 1062.	3.5	27
102	EnFET for urea determination in biological fluids using ammonium ion detection. , 2003, , .		1
103	An influence of polyHEMA gate layer on properties of ChemFETs. Sensors, 2003, 3, 146-159.	3.8	12
104	<title>Immunoreactions in potentiometric sensors</title>. , 2002, , .		0
105	<title>Technological aspects of potentiometric BSC-type microsensor fabrication</title>. , 2001, 4516, 32.		4
106	The pH-detection of triglycerides. Sensors and Actuators B: Chemical, 2001, 78, 263-266.	7.8	40
107	A flow-through amperometric sensor based on dialysis tubing and free enzyme reactors. Biosensors and Bioelectronics, 2001, 16, 391-397.	10.1	22
108	Urea biosensors and their application in hemodialysis â€” perspective of EnFET application. Frontiers of Medical and Biological Engineering: the International Journal of the Japan Society of Medical Electronics and Biological Engineering, 2000, 10, 139-145.	0.2	2

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109	Na ⁺ -selective ChemFETs based on a novel ionophore: bis(phenylbenzo)-13-azocrown-5. Sensors and Actuators B: Chemical, 1999, 58, 384-388.	7.8	12
110	Optimisation methods of enzyme integration with transducers for analysis of irreversible inhibitors. Sensors and Actuators B: Chemical, 1999, 58, 420-426.	7.8	20
111	Backside contacts for sensor structure packaging. , 1999, , .		0
112	A System for Fluid Dosing in the Nanoliter Range. , 1998, , 91-95.		1
113	<title>Development of NH ₄ ⁺ -sensitive polymer membranes for long-term performance microsensors</title>. , 1997, , .		2
114	<title>Optimization of properties of ion-sensitive amorphous silicon (a-Si:H) based transistors</title>. , 1997, , .		0
115	<title>Simple method of enzyme immobilization for pH-ISFET-based urea biosensors</title>. , 1997, 3054, 219.		3
116	Durable NH ₄ ⁺ -sensitive CHEMFET. Sensors and Actuators B: Chemical, 1997, 44, 527-531.	7.8	20
117	pH-ISFET based urea biosensor. Sensors and Actuators B: Chemical, 1997, 44, 370-376.	7.8	106
118	<title>Long-term stability of ion-sensitive field effect transistors: Si ₃ N ₄ , Al ₂ O ₃ , and Ta ₂ O ₅ membranes drift</title>. , 1995, , .		3
119	Preparation of thin SnO ₂ layers by inorganic sol-gel process. Journal of Sol-Gel Science and Technology, 1994, 2, 551-554.	2.4	11
120	Design of a low-voltage instrumentation amplifier for enzyme-extended-gate field effect transistor based urea sensor application. , 0, , .		0
121	A New Body-Effect Elimination Technique for ISFET Measurement. , 0, , .		3
122	Short survey: adaptive threshold methods used to segment immunonegative cells from simulated images of follicular lymphoma stained with 3,3'-Diaminobenzidine&Haematoxylin. , 0, , .		3