

Dorota Genowefa Pijanowska

List of Publications by Year in descending order

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122
papers

1,288
citations

394421

19
h-index

477307

29
g-index

125
all docs

125
docs citations

125
times ranked

1368
citing authors

#	ARTICLE	IF	CITATIONS
1	pH-ISFET based urea biosensor. <i>Sensors and Actuators B: Chemical</i> , 1997, 44, 370-376.	7.8	106
2	New ISFET interface circuit design with temperature compensation. <i>Microelectronics Journal</i> , 2006, 37, 1105-1114.	2.0	58
3	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
4	LTCC microreactor for urea determination in biological fluids. <i>Sensors and Actuators B: Chemical</i> , 2009, 141, 301-308.	7.8	42
5	The pH-detection of triglycerides. <i>Sensors and Actuators B: Chemical</i> , 2001, 78, 263-266.	7.8	40
6	Drift and Hysteresis Effects Improved by RTA Treatment on Hafnium Oxide in pH-Sensitive Applications. <i>Journal of the Electrochemical Society</i> , 2008, 155, J326.	2.9	38
7	Optimization of Urea-EnFET Based on Ta ₂ O ₅ Layer with Post Annealing. <i>Sensors</i> , 2011, 11, 4562-4571.	3.8	34
8	Body effect minimization using single layer structure for pH-ISFET applications. <i>Sensors and Actuators B: Chemical</i> , 2010, 143, 494-499.	7.8	30
9	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
10	Highly sensitive glucose sensor based on work function changes measured by an EMOSFET. <i>Analyst</i> , 2003, 128, 1062.	3.5	27
11	ISFET performance enhancement by using the improved circuit techniques. <i>Sensors and Actuators B: Chemical</i> , 2006, 113, 555-562.	7.8	27
12	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
13	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
14	A flow-through amperometric sensor based on dialysis tubing and free enzyme reactors. <i>Biosensors and Bioelectronics</i> , 2001, 16, 391-397.	10.1	22
15	Durable NH ₄ ⁺ -sensitive CHEMFET. <i>Sensors and Actuators B: Chemical</i> , 1997, 44, 527-531.	7.8	20
16	Optimisation methods of enzyme integration with transducers for analysis of irreversible inhibitors. <i>Sensors and Actuators B: Chemical</i> , 1999, 58, 420-426.	7.8	20
17	A flow-through amperometric sensor for micro-analytical systems. <i>Sensors and Actuators B: Chemical</i> , 2003, 91, 98-102.	7.8	20
18	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

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19	Fabrication of Electrochemical Biosensor Based on Titanium Dioxide Nanotubes and Silver Nanoparticles for Heat Shock Protein 70 Detection. <i>Materials</i> , 2021, 14, 3767.	2.9	20
20	A signal processing ASIC for ISFET-based chemical sensors. <i>Microelectronics Journal</i> , 2004, 35, 667-675.	2.0	19
21	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
22	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
23	LTCC Enzymatic Microreactor. <i>Journal of Microelectronics and Electronic Packaging</i> , 2007, 4, 51-56.	0.7	19
24	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
25	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
26	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
27	Comparison of Gold Nanoparticles Deposition Methods and Their Influence on Electrochemical and Adsorption Properties of Titanium Dioxide Nanotubes. <i>Materials</i> , 2020, 13, 4269.	2.9	18
28	Immobilisation of bioreceptors for microreactors. <i>Sensors and Actuators B: Chemical</i> , 2003, 91, 152-157.	7.8	17
29	ISFET interface circuit embedded with noise rejection capability. <i>Electronics Letters</i> , 2004, 40, 1115.	1.0	17
30	Microfluidic Platform for Enzyme-Linked and Magnetic Particle-Based Immunoassay. <i>Micromachines</i> , 2013, 4, 257-271.	2.9	17
31	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
32	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
33	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
34	Hysteresis effect on traps of Si ₃ N ₄ sensing membranes for pH difference sensitivity. <i>Microelectronics Reliability</i> , 2010, 50, 738-741.	1.7	16
35	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
36	Potentiometric Solid-Contact Ion-Selective Electrode for Determination of Thiocyanate in Human Saliva. <i>Sensors</i> , 2020, 20, 2817.	3.8	14

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37	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
38	Na ⁺ -selective ChemFETs based on a novel ionophore: bis(phenylbenzo)-13-azocrown-5. <i>Sensors and Actuators B: Chemical</i> , 1999, 58, 384-388.	7.8	12
39	An influence of polyHEMA gate layer on properties of ChemFETs. <i>Sensors</i> , 2003, 3, 146-159.	3.8	12
40	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
41	Preparation of thin SnO ₂ layers by inorganic sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , 1994, 2, 551-554.	2.4	11
42	Surface Modification for Microreactor Fabrication. <i>Sensors</i> , 2006, 6, 370-379.	3.8	11
43	A real-time mirror-LAPS mini system for dynamic chemical imaging and cell acidification monitoring. <i>Sensors and Actuators B: Chemical</i> , 2021, 341, 130003.	7.8	11
44	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, .	0.4	11
45	A flow-through potentiometric sensor for an integrated microdialysis system. <i>Sensors and Actuators B: Chemical</i> , 2004, 103, 350-355.	7.8	10
46	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
47	LTCC Microfluidic Systems for Biochemical Diagnosis. <i>Biocybernetics and Biomedical Engineering</i> , 2011, 31, 31-41.	5.9	9
48	Photoelectrochemical Detection of α -amyloid Peptides by a TiO ₂ Nanobrush Biosensor. <i>IEEE Sensors Journal</i> , 2020, 20, 6248-6255.	4.7	9
49	Electroconductive Polymers in (Bio)chemical Sensors. <i>Biocybernetics and Biomedical Engineering</i> , 2011, 31, 43-57.	5.9	8
50	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
51	DNA-based Electrochemical Biosensor for Imipramine Detection. <i>Procedia Engineering</i> , 2015, 120, 574-577.	1.2	7
52	Selective Electrochemical Detection of Pirarubicin by Means of DNA-modified Graphite Biosensor. <i>Electroanalysis</i> , 2017, 29, 1810-1819.	2.9	7
53	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
54	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

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55	Survey: interpolation methods for whole slide image processing. <i>Journal of Microscopy</i> , 2017, 265, 148-158.	1.8	6
56	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
57	Clustered nuclei splitting based on recurrent distance transform in digital pathology images. <i>Eurasip Journal on Image and Video Processing</i> , 2020, 2020, .	2.6	6
58	Optimization of a PVC Membrane for Reference Field Effect Transistors. <i>Sensors</i> , 2009, 9, 2076-2087.	3.8	5
59	Fluorine Incorporation and Thermal Treatment on Single and Stacked Si[sub 3]N[sub 4] Membranes for ISFET/REFET Application. <i>Journal of the Electrochemical Society</i> , 2010, 157, J8.	2.9	5
60	Technology and application of the LTCC-based microfluidic module for urea determination. <i>Microelectronics International</i> , 2015, 32, 126-132.	0.6	5
61	Skin Impedance Measurements by Means of Novel Gold Sensors Fabricated by Direct Writing. <i>Procedia Engineering</i> , 2015, 120, 882-886.	1.2	5
62	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
63	Comparative Study on Voltammetric and Spectrofluorimetric Methods for Fluorescein Detection. <i>International Journal of Electrochemical Science</i> , 2019, 14, 3764-3776.	1.3	5
64	Electrochemical stability of TiO2 nanotubes deposited with silver and gold nanoparticles in aqueous environment. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2021, 15, 100401.	2.9	5
65	Highly Stable Potentiometric (Bio)Sensor for Urea and Urease Activity Determination. <i>Membranes</i> , 2021, 11, 898.	3.0	5
66	<title>Technological aspects of potentiometric BSC-type microsensor fabrication</title>. , 2001, 4516, 32.		4
67	An Innovative Method for Complete Microsensors Fabrication. <i>Procedia Engineering</i> , 2012, 47, 1430-1433.	1.2	4
68	DNA Intercalation-based Amperometric Biosensor for Chlorpromazine Detection. <i>Procedia Engineering</i> , 2014, 87, 747-750.	1.2	4
69	Multianalyte Calibration Methods for Potentiometric Integrated Sensors System for Determination of Ions Concentration in a Body Fluids. , 2018, , .		4
70	Genetically modified C3A cells with restored urea cycle for improved bioartificial liver. <i>Biocybernetics and Biomedical Engineering</i> , 2020, 40, 378-387.	5.9	4
71	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
72	Electrodes Based on a Titanium Dioxide Nanotube – Spherical Silver Nanoparticle Composite for Sensing of Proteins. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 105-113.	5.2	4

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73	Evaluation of the effects of antibiotics on cytotoxicity of EGFP and DsRed2 fluorescent proteins used for stable cell labeling.. Acta Biochimica Polonica, 2014, 61, .	0.5	4
74	Influence of geometry and annealing temperature in argon atmosphere of TiO ₂ nanotubes on their electrochemical properties. Acta of Bioengineering and Biomechanics, 2020, 22, 165-177. Long-term stability of ion-sensitive field effect transistors	0.4	4
75	Si ³⁺ , Al ²⁺ , and Ta ²⁺ O ₅ membranes drift<title>. , 1995, .		3
76	<title>Simple method of enzyme immobilization for pH-ISFET-based urea biosensors</title>. , 1997, 3054, 219.		3
77	A New Body-Effect Elimination Technique for ISFET Measurement. , 0, , .		3
78	Short survey: adaptive threshold methods used to segment immunonegative cells from simulated images of follicular lymphoma stained with 3,3'-Diaminobenzidine&Haematoxylin. , 0, , .		3
79	Nitrogen ratio and RTA optimization on sputtered TiN/SiO ₂ /Si electrolyte-insulator“semiconductor structure for pH sensing characteristics. Vacuum, 2015, 118, 113-117.	3.5	3
80	Immunosensors for human cardiac troponins and CRP, in particular amperometric cTnI immunosensor. Biocybernetics and Biomedical Engineering, 2016, 36, 29-41.	5.9	3
81	Dried human skin fibroblasts as a new substratum for functional culture of hepatic cells. Acta Biochimica Polonica, 2017, 64, 357-363.	0.5	3
82	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
83	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
84	System for quantitative evaluation of DAB&H-stained breast cancer biopsy digital images (CHISEL). Scientific Reports, 2021, 11, 9291.	3.3	3
85	<title>Development of NH ⁴⁺ -sensitive polymer membranes for long-term performance microsensors</title>. , 1997, , .		2
86	Urea biosensors and their application in hemodialysis “ 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
87	pH-based Detection of Phenylalanine by Potentiometric and Colorimetric Methods. Sensors, 2006, 6, 428-434.	3.8	2
88	An Electronic Tongue System Design Using Ion Sensitive Field Effect Transistors and Their Interfacing Circuit Techniques. , 2008, , .		2
89	ISFET electronic tongue system for environmental multi-ion sensing with independent component analysis signal processing. Proceedings of SPIE, 2009, , .	0.8	2
90	Electronic tongue system for remote multi-ion sensing using blind source separation and wireless sensor network. , 2010, , .		2

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91	Color standardization for the immunohistochemically stained tissue section images. , 2016, , .		2
92	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
93	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
94	Evaluation of the effects of antibiotics on cytotoxicity of EGFP and DsRed2 fluorescent proteins used for stable cell labeling. Acta Biochimica Polonica, 2014, 61, 809-13.	0.5	2
95	Nanohollow Titanium Oxide Structures on Ti/FTO Glass Formed by Step-Bias Anodic Oxidation for Photoelectrochemical Enhancement. Nanomaterials, 2022, 12, 1925.	4.1	2
96	EnFET for urea determination in biological fluids using ammonium ion detection. , 2003, , .		1
97	The characterization of stacked $\hat{1}\pm$ -Si/SiGe/ $\hat{1}\pm$ -Si sensing membrane. Microelectronic Engineering, 2005, 80, 46-49.	2.4	1
98	Chemical Sensing Properties of Electrolyte/SiGe/SiO ₂ /Si Structure. Japanese Journal of Applied Physics, 2006, 45, 6192-6195.	1.5	1
99	LTCC fluidic potentiometric detector. , 2008, , .		1
100	Microfluidics Based System for Amperometric Determination of CRP. Procedia Engineering, 2011, 25, 1221-1224.	1.2	1
101	The analysis of the movement of the genetically modified human skin fibroblasts in culture. , 2018, , .		1
102	Evaluation of Fluorescein as a Label in Electrochemical and Optical Measurements. , 2018, , .		1
103	Electropolymerization of Methylene Green on Gold and Platinum Electrodes for Quantitative Ascorbic Acid Determination. Sensor Letters, 2010, 8, 713-719.	0.4	1
104	Transcutaneous Blood Capnometry Sensor Head Based on a Back-Side Contacted ISFET. , 2011, , 607-614.		1
105	A System for Fluid Dosing in the Nanoliter Range. , 1998, , 91-95.		1
106	Screen printed graphene electrodes for voltammetric dopamine determination. , 2019, , .		1
107	Biosensor based on coupled enzyme reactions for determination of arginase activity. Bioelectrochemistry, 2022, 146, 108137.	4.6	1
108	<title>Optimization of properties of ion-sensitive amorphous silicon (a-Si:H) based transistors</title>. , 1997, , .		0

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109	Backside contacts for sensor structure packaging. , 1999, , .		0
110	<title>Immunoreactions in potentiometric sensors</title>. , 2002, , .		0
111	Design of a low-voltage instrumentation amplifier for enzyme-extended-gate field effect transistor based urea sensor application. , 0, , .		0
112	<title>Amperometric sensors as a basic structures for enzymatic, enzyme-cofactor mediated assays and drugs detection</title>. , 2006, , .		0
113	Analog processor design for potentiometric sensor array and its applications in smart living space. , 2007, , .		0
114	V<inf>TH</inf>-Extractors Based Readout Circuit of ISFET with Temperature Compensation. , 2007, , .		0
115	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
116	Functionalisation of chemically sensitive surfaces for biosensors and microreactors fabrication. Irbm, 2008, 29, 128-132.	5.6	0
117	Biosensor for Dielectric Spectroscopy of Mitochondria and for Monitoring Ion Activities. Materials Research Society Symposia Proceedings, 2009, 1236, 1.	0.1	0
118	Low intensity fluorescence light measurements using Silicon Photomultiplier with dedicated front-end ASIC. , 2013, , .		0
119	Ion-selective electrode made with LTCC (low temperature co-fired ceramics) technology. Microelectronics International, 2014, 31, 201-206.	0.6	0
120	An implementation of an electronic tongue system based on a multi-sensor potentiometric readout circuit with embedded calibration and temperature compensation. , 2015, , .		0
121	The Analysis of the Shape of the Genetically Modified Human Skin Fibroblasts in Culture. Advances in Intelligent Systems and Computing, 2018, , 98-109.	0.6	0
122	Mathematical Modeling of LTCC Based Microfluidic Type Chemical Microreactor. , 2018, , .		0