

Yaroslav I Korpan

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,182
citations

394286

19
h-index

377752

34
g-index

39
all docs

39
docs citations

39
times ranked

1184
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of highly selective and stable potentiometric sensors for formaldehyde determination. <i>Biosensors and Bioelectronics</i> , 2000, 15, 77-83.	5.3	157
2	Application of urease conductometric biosensor for heavy-metal ion determination. <i>Sensors and Actuators B: Chemical</i> , 1995, 24, 145-148.	4.0	106
3	Potato glycoalkaloids: true safety or false sense of security?. <i>Trends in Biotechnology</i> , 2004, 22, 147-151.	4.9	95
4	Creatinine and urea biosensors based on a novel ammonium ion-selective copper-polyaniline nano-composite. <i>Biosensors and Bioelectronics</i> , 2016, 77, 505-511.	5.3	94
5	Application of enzyme field-effect transistors for determination of glucose concentrations in blood serum. <i>Biosensors and Bioelectronics</i> , 1999, 14, 283-287.	5.3	76
6	Biosensors based on enzyme field-effect transistors for determination of some substrates and inhibitors. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 377, 496-506.	1.9	75
7	Conductometric formaldehyde sensitive biosensor with specifically adapted analytical characteristics. <i>Analytica Chimica Acta</i> , 2001, 445, 47-55.	2.6	70
8	A Cell Biosensor Specific for Formaldehyde Based on pH-Sensitive Transistors Coupled to Methylophilic Yeast Cells with Genetically Adjusted Metabolism. <i>Analytical Biochemistry</i> , 1993, 215, 216-222.	1.1	55
9	Formaldehyde assay by capacitance versus voltage and impedance measurements using bi-layer bio-recognition membrane. <i>Biosensors and Bioelectronics</i> , 2006, 22, 575-581.	5.3	44
10	Formaldehyde-sensitive sensor based on recombinant formaldehyde dehydrogenase using capacitance versus voltage measurements. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2790-2795.	5.3	39
11	L-lactate selective impedimetric bienzymatic biosensor based on lactate dehydrogenase and pyruvate oxidase. <i>Electrochimica Acta</i> , 2017, 231, 209-215.	2.6	36
12	Metabolically engineered methylotrophic yeast cells and enzymes as sensor biorecognition elements. <i>FEMS Yeast Research</i> , 2002, 2, 307-314.	1.1	35
13	A Novel Enzyme Biosensor Specific for Formaldehyde Based on pH-Sensitive Field Effect Transistors. <i>Journal of Chemical Technology and Biotechnology</i> , 1997, 68, 209-213.	1.6	29
14	A novel enzyme biosensor for steroidal glycoalkaloids detection based on pH-sensitive field effect transistors. <i>Bioelectrochemistry</i> , 2002, 55, 9-11.	2.4	28
15	Biosensors. A quarter of a century of R&D experience. <i>Biopolymers and Cell</i> , 2013, 29, 188-206.	0.1	27
16	Application of enzyme field effect transistors for fast detection of total glycoalkaloids content in potatoes. <i>Sensors and Actuators B: Chemical</i> , 2004, 103, 416-422.	4.0	24
17	Formaldehyde-sensitive conductometric sensors based on commercial and recombinant formaldehyde dehydrogenase. <i>Mikrochimica Acta</i> , 2010, 170, 337-344.	2.5	24
18	Methylotrophic yeast microbiosensor based on ion-sensitive field effect transistors for methanol and ethanol determination. <i>Analytica Chimica Acta</i> , 1993, 271, 203-208.	2.6	23

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19	Direct detection of ammonium ion by means of oxygen electrocatalysis at a copper-polyaniline composite on a screen-printed electrode. <i>Mikrochimica Acta</i> , 2016, 183, 1981-1987.	2.5	20
20	Sensitivity and Specificity Improvement of an Ion Sensitive Field Effect Transistors-Based Biosensor for Potato Glycoalkaloids Detection. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 707-712.	2.4	17
21	Amperometric L-arginine biosensor based on a novel recombinant arginine deiminase. <i>Mikrochimica Acta</i> , 2017, 184, 2679-2686.	2.5	17
22	Conductometric Chemosensors Based on Calixarenes for Determination of Amines and Amino Acids. <i>Sensor Letters</i> , 2009, 7, 989-994.	0.4	14
23	Electrical characterization of functionalized platinum electrodes and ISFET sensors for metal ion detection. <i>Materials Science and Engineering C</i> , 2006, 26, 149-153.	3.8	12
24	Site-binding model as a basis for numerical evaluation of analytical parameters of capacitance-biosensors for formaldehyde and methylamine detection. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 824-830.	4.0	12
25	Biosensors based on conductometric detection. <i>Biopolymers and Cell</i> , 1998, 14, 268-276.	0.1	9
26	Optimization of bioselective membrane of amperometric enzyme sensor on basis of glucose oxidase using NH ₂ -modified multi-wall carbone nanotubes. <i>Biopolymers and Cell</i> , 2010, 26, 56-61.	0.1	8
27	Potentiometric sensing of histamine using immobilized enzymes on layered double hydroxides. <i>Journal of Food Science and Technology</i> , 2020, 58, 2936-2942.	1.4	7
28	Conductometric Biosensor Based on Flavocytochrome <i>b₂</i> for L-Lactate Determination. <i>Sensor Letters</i> , 2011, 9, 2388-2391.	0.4	6
29	Formaldehyde Oxidizing Enzymes and Genetically Modified Yeast <i>Hansenula polymorpha</i> Cells in Monitoring and Removal of Formaldehyde. , 2011, , .		4
30	Enzymatic conductometric sensor for formaldehyde detection in model samples. <i>Biopolymers and Cell</i> , 2005, 21, 425-432.	0.1	4
31	Glucose Biosensor Based on Screen-Printed Electrodes and Glucose Oxidase Layer Modified by MWCNT-NH ₂ . <i>Sensor Letters</i> , 2011, 9, 2356-2359.	0.4	3
32	Formaldehyde conductometric biosensor based on the recombinant formaldehyde dehydrogenase from <i>Hansenula polymorpha</i> yeast. <i>Biopolymers and Cell</i> , 2008, 24, 135-141.	0.1	3
33	Potato glycoalkaloids: dissemination, physical and chemical properties, toxicity and methods of detection. <i>Biopolymers and Cell</i> , 2002, 18, 478-484.	0.1	2
34	Potato glycoalkaloids detection based on conductometric sensor coupled to butyryl cholinesterase. <i>Biopolymers and Cell</i> , 2004, 20, 331-336.	0.1	1
35	Application of enzyme biosensor base on pH-sensitive field transistors for determination of glucose concentration in potato juice. <i>Biopolymers and Cell</i> , 2003, 19, 553-557.	0.1	1
36	Potentiometric biosensor for detection of potato glycoalkaloids: control of its analytical characteristics, comparison with thin-layer chromatography. <i>Biopolymers and Cell</i> , 2005, 21, 275-282.	0.1	1

#	ARTICLE	IF	CITATIONS
37	Selective Determination of Heavy Metal Ions with Sensors Coupled to Immobilised Enzymes. , 1998, , 281-288.		1
38	New Approaches for Formaldehyde Assay Based on Use of Enzymatic Kit or pH-Sensitive Field Effect Transistor Biosensor. , 1995, , 689-700.		0