

Jan Tkac

List of Publications by Year in descending order

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155
papers

6,893
citations

50244

46
h-index

69214

77
g-index

167
all docs

167
docs citations

167
times ranked

8275
citing authors

#	ARTICLE	IF	CITATIONS
1	Amplified suspension magnetic bead-based assay for sensitive detection of anti-glycan antibodies as potential cancer biomarkers. <i>Analytica Chimica Acta</i> , 2022, 1195, 339444.	2.6	3
2	Glycan signatures for the identification of cisplatin-resistant testicular cancer cell lines: Specific glycoprofiling of human chorionic gonadotropin (hCG). <i>Cancer Medicine</i> , 2022, , .	1.3	3
3	CCNE1 amplification is synthetic lethal with PKMYT1 kinase inhibition. <i>Nature</i> , 2022, 604, 749-756.	13.7	60
4	Exosomes from prostate cancer cell lines: Isolation optimisation and characterisation. <i>Biomedicine and Pharmacotherapy</i> , 2022, 151, 113093.	2.5	11
5	Electrochemical surface activation of commercial tungsten carbide for enhanced electrocatalytic hydrogen evolution and methanol oxidation reactions. <i>Journal of Electroanalytical Chemistry</i> , 2022, 919, 116525.	1.9	1
6	Sulfobetaine-based polydisulfides with tunable upper critical solution temperature (UCST) in water alcohols mixture, depolymerization kinetics and surface wettability. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 196-208.	5.0	4
7	Influence of direct electric field on PMCG-alginate-based microcapsule. <i>Emergent Materials</i> , 2021, 4, 769-779.	3.2	5
8	Screen-printed conductive carbon layers for dye-sensitized solar cells and electrochemical detection of dopamine. <i>Chemical Papers</i> , 2021, 75, 3817-3829.	1.0	10
9	Detection of N,N-diacetyllactosamine (LacdiNAc) containing free prostate-specific antigen for early stage prostate cancer diagnostics and for identification of castration-resistant prostate cancer patients. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 39, 116156.	1.4	10
10	Novel Prostate Cancer Biomarkers: Aetiology, Clinical Performance and Sensing Applications. <i>Chemosensors</i> , 2021, 9, 205.	1.8	10
11	Exchange Counterion in Polycationic Hydrogels: Tunability of Hydrophobicity, Water State, and Floating Capability for a Floating pH Device. <i>Gels</i> , 2021, 7, 109.	2.1	6
12	Challenges for impedimetric affinity sensors targeting protein detection. <i>Current Opinion in Electrochemistry</i> , 2021, 28, 100717.	2.5	18
13	Nicotinamide-based supergelator self-assembling via asymmetric hydrogen bonding NH \cdots OC and H \cdots Br \cdots pattern for reusable, moldable and self-healable nontoxic fuel gels. <i>Journal of Colloid and Interface Science</i> , 2021, 603, 182-190.	5.0	3
14	Breast cancer glycan biomarkers: their link to tumour cell metabolism and their perspectives in clinical practice. <i>Expert Review of Proteomics</i> , 2021, 18, 881-910.	1.3	5
15	Tandem Osmotic Engine Based on Hydrogel Particles with Antipolyelectrolyte and Polyelectrolyte Effect Fuelled by Both Salinity Gradient Modes. <i>Gels</i> , 2021, 7, 232.	2.1	0
16	SENSITIVE AMPEROMETRIC NANOBIOSENSOR FOR DETECTION OF SARCOSINE - POTENTIAL PROSTATE CANCER MARKER - IN URINE SAMPLES. , 2021, , .		0
17	screen-printed molybdenum disulfide electrodes for electrochemical sensing of dopamine. , 2021, , .		0
18	Identification of Whole-Serum Glycobiomarkers for Colorectal Carcinoma Using Reverse-Phase Lectin Microarray. <i>Frontiers in Oncology</i> , 2021, 11, 735338.	1.3	10

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19	Remarkable differences in the voltammetric response towards hydrogen peroxide, oxygen and Ru(NH ₃) ₆ ³⁺ of electrode interfaces modified with HF or LiF-HCl etched Ti ₃ C ₂ T _x MXene. <i>Mikrochimica Acta</i> , 2020, 187, 52.	2.5	20
20	Ti ₃ C ₂ T _x MXene-Based Light-Responsive Hydrogel Composite for Bendable Bilayer Photoactuator. <i>Nanomaterials</i> , 2020, 10, 1419.	1.9	18
21	Electrochemical Nanobiosensors for Detection of Breast Cancer Biomarkers. <i>Sensors</i> , 2020, 20, 4022.	2.1	37
22	Electrochemical Investigation of Interfacial Properties of Ti ₃ C ₂ T _x MXene Modified by Aryldiazonium Betaine Derivatives. <i>Frontiers in Chemistry</i> , 2020, 8, 553.	1.8	20
23	Glycan Nanobiosensors. <i>Nanomaterials</i> , 2020, 10, 1406.	1.9	20
24	Validating fPSA Glycoprofile as a Prostate Cancer Biomarker to Avoid Unnecessary Biopsies and Re-Biopsies. <i>Cancers</i> , 2020, 12, 2988.	1.7	16
25	Electrochemical Impedance Spectroscopy on 2D Nanomaterial MXene Modified Interfaces: Application as a Characterization and Transducing Tool. <i>Chemosensors</i> , 2020, 8, 127.	1.8	29
26	Analysis of serum glycome by lectin microarrays for prostate cancer patients - a search for aberrant glycoforms. <i>Glycoconjugate Journal</i> , 2020, 37, 703-711.	1.4	9
27	Ultrasensitive Ti ₃ C ₂ T _x MXene/Chitosan Nanocomposite-Based Amperometric Biosensor for Detection of Potential Prostate Cancer Marker in Urine Samples. <i>Processes</i> , 2020, 8, 580.	1.3	58
28	Exosomes as a Source of Cancer Biomarkers: Advances in Electrochemical Biosensing of Exosomes. <i>ChemElectroChem</i> , 2020, 7, 1956-1973.	1.7	23
29	Exosomes as a Source of Cancer Biomarkers: Advances in Electrochemical Biosensing of Exosomes. <i>ChemElectroChem</i> , 2020, 7, 1955-1955.	1.7	0
30	Graphene oxide sensors of high sensitivity fabricated using cold atmospheric-pressure hydrogen plasma for use in the detection of small organic molecules. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	7
31	Identification of Molecular Fluorophore as a Component of Carbon Dots able to Induce Gelation in a Fluorescent Multivalent-Metal-Ion-Free Alginate Hydrogel. <i>Scientific Reports</i> , 2019, 9, 15080.	1.6	7
32	Antibodies against aberrant glycans as cancer biomarkers. <i>Expert Review of Molecular Diagnostics</i> , 2019, 19, 1057-1068.	1.5	10
33	Glycan Analysis as Biomarkers for Testicular Cancer. <i>Diagnostics</i> , 2019, 9, 156.	1.3	2
34	Synthesis and characterization of Au nanoshells with a magnetic core and betaine derivatives. <i>MethodsX</i> , 2019, 6, 1999-2012.	0.7	10
35	Tailoring Electrocatalytic Properties of Pt Nanoparticles Grown on Ti ₃ C ₂ T _x MXene Surface. <i>Journal of the Electrochemical Society</i> , 2019, 166, H54-H62.	1.3	48
36	Advanced impedimetric biosensor configuration and assay protocol for glycoprofiling of a prostate oncomarker using Au nanoshells with a magnetic core. <i>Biosensors and Bioelectronics</i> , 2019, 131, 24-29.	5.3	29

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37	Polyzwitterionic Hydrogels in Engines Based on the Antipolyelectrolyte Effect and Driven by the Salinity Gradient. <i>Environmental Science & Technology</i> , 2019, 53, 9260-9268.	4.6	19
38	2D MXenes as Perspective Immobilization Platforms for Design of Electrochemical Nanobiosensors. <i>Electroanalysis</i> , 2019, 31, 1833-1844.	1.5	36
39	Prostate-specific antigen glycoprofiling as diagnostic and prognostic biomarker of prostate cancer. <i>Interface Focus</i> , 2019, 9, 20180077.	1.5	53
40	A Graphene-Based Glycan Biosensor for Electrochemical Label-Free Detection of a Tumor-Associated Antibody. <i>Sensors</i> , 2019, 19, 5409.	2.1	17
41	Electrochemical Impedance Spectroscopy Based Biosensors: Mechanistic Principles, Analytical Examples and Challenges towards Commercialization for Assays of Protein Cancer Biomarkers. <i>ChemElectroChem</i> , 2019, 6, 989-1003.	1.7	114
42	Sulfobetaines Meet Carboxybetaines: Modulation of Thermo- and Ion-Responsivity, Water Structure, Mechanical Properties, and Cell Adhesion. <i>Langmuir</i> , 2019, 35, 1391-1403.	1.6	32
43	Glycomics of prostate cancer: updates. <i>Expert Review of Proteomics</i> , 2019, 16, 65-76.	1.3	25
44	Glycan-modified interfaces in biosensing: an electrochemical approach. <i>Current Opinion in Electrochemistry</i> , 2019, 14, 60-65.	2.5	12
45	Highly stable Ti3C2Tx (MXene)/Pt nanoparticles-modified glassy carbon electrode for H2O2 and small molecules sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2018, 263, 360-368.	4.0	202
46	Glycomics meets artificial intelligence – Potential of glycan analysis for identification of seropositive and seronegative rheumatoid arthritis patients revealed. <i>Clinica Chimica Acta</i> , 2018, 481, 49-55.	0.5	26
47	Sweet Strategies in Prostate Cancer Biomarker Research: Focus on a Prostate Specific Antigen. <i>BioNanoScience</i> , 2018, 8, 690-700.	1.5	12
48	Microdetectives: Fundamentals, Fabrication, and Applications of Electrochemical Microbial Biosensors. , 2018, , 337-349.		0
49	Enzymatic Electrodes: Characteristics, Fabrication Methods, and Applications. , 2018, , 190-199.		1
50	Advanced antifouling zwitterionic layer based impedimetric HER2 biosensing in human serum: Glycoprofiling as a novel approach for breast cancer diagnostics. <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 626-633.	4.0	28
51	Modulation of wettability, gradient and adhesion on self-assembled monolayer by counterion exchange and pH. <i>Journal of Colloid and Interface Science</i> , 2018, 512, 511-521.	5.0	18
52	Immobilization of bilirubin oxidase on graphene oxide flakes with different negative charge density for oxygen reduction. The effect of GO charge density on enzyme coverage, electron transfer rate and current density. <i>Biosensors and Bioelectronics</i> , 2017, 89, 384-389.	5.3	31
53	Optimization of the Small Glycan Presentation for Binding a Tumor-Associated Antibody: Application to the Construction of an Ultrasensitive Glycan Biosensor. <i>Langmuir</i> , 2017, 33, 2709-2716.	1.6	9
54	Photoimmobilization of zwitterionic polymers on surfaces to reduce cell adhesion. <i>Journal of Colloid and Interface Science</i> , 2017, 500, 294-303.	5.0	11

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55	Immobilization of concanavalin A lectin on a reduced graphene oxide-thionine surface by glutaraldehyde crosslinking for the construction of an impedimetric biosensor. <i>Journal of Electroanalytical Chemistry</i> , 2017, 794, 156-163.	1.9	14
56	Full-length antibodies versus single-chain antibody fragments for a selective impedimetric lectin-based glycoprofiling of prostate specific antigen. <i>Electrochimica Acta</i> , 2017, 246, 399-405.	2.6	18
57	pH-Switchable Interaction of a Carboxybetaine Ester-Based SAM with DNA and Gold Nanoparticles. <i>Langmuir</i> , 2017, 33, 6657-6666.	1.6	9
58	Label-free chronopotentiometric glycoprofiling of prostate specific antigen using sialic acid recognizing lectins. <i>Bioelectrochemistry</i> , 2017, 117, 89-94.	2.4	33
59	Self-assembled gold nanoparticles for impedimetric and amperometric detection of a prostate cancer biomarker. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 637-643.	4.0	52
60	Electrochemical performance of Ti ₃ C ₂ T _x MXene in aqueous media: towards ultrasensitive H ₂ O ₂ sensing. <i>Electrochimica Acta</i> , 2017, 235, 471-479.	2.6	215
61	Progress in emerging techniques for characterization of immobilized viable whole-cell biocatalysts. <i>Chemical Papers</i> , 2017, 71, 2309-2324.	1.0	2
62	Nanomaterial-based biosensors for detection of prostate specific antigen. <i>Mikrochimica Acta</i> , 2017, 184, 3049-3067.	2.5	94
63	Nanotechnology in Glycomics: Applications in Diagnostics, Therapy, Imaging, and Separation Processes. <i>Medicinal Research Reviews</i> , 2017, 37, 514-626.	5.0	45
64	Sweet characterisation of prostate specific antigen using electrochemical lectin-based immunosensor assay and MALDI TOF/TOF analysis: Focus on sialic acid. <i>Proteomics</i> , 2016, 16, 3085-3095.	1.3	31
65	Anisotropy in CNT composite fabricated by combining directional freezing and gamma irradiation of acrylic acid. <i>Materials and Design</i> , 2016, 97, 300-306.	3.3	6
66	Simple, Reversible, and Fast Modulation in Superwettability, Gradient, and Adsorption by Counterion Exchange on Self-Assembled Monolayer. <i>Langmuir</i> , 2016, 32, 5491-5499.	1.6	38
67	Aberrant sialylation of a prostate-specific antigen: Electrochemical label-free glycoprofiling in prostate cancer serum samples. <i>Analytica Chimica Acta</i> , 2016, 934, 72-79.	2.6	55
68	Glycan and lectin biosensors. <i>Essays in Biochemistry</i> , 2016, 60, 37-47.	2.1	51
69	Electrochemical biosensors and nanobiosensors. <i>Essays in Biochemistry</i> , 2016, 60, 69-80.	2.1	265
70	Carboxybetaine Ester Feature as a Platform for Switchable Surface Properties. , 2016, , .		0
71	Mixed Zwitterion-Based Self-Assembled Monolayer Interface for Impedimetric Glycomic Analyses of Human IgG Samples in an Array Format. <i>Langmuir</i> , 2016, 32, 7070-7078.	1.6	22
72	Graphene oxide-based electrochemical label-free detection of glycoproteins down to aM level using a lectin biosensor. <i>Analyst, The</i> , 2016, 141, 4278-4282.	1.7	26

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73	HELB Is a Feedback Inhibitor of DNA End Resection. <i>Molecular Cell</i> , 2016, 61, 405-418.	4.5	119
74	Ultrasensitive detection of influenza viruses with a glycan-based impedimetric biosensor. <i>Biosensors and Bioelectronics</i> , 2016, 79, 644-649.	5.3	76
75	Sensitive detection and glycoprofiling of a prostate specific antigen using impedimetric assays. <i>Analyst</i> , 2016, 141, 1044-1051.	1.7	41
76	Graphene-based lectin biosensor for ultrasensitive detection of glycan structures applicable in early diagnostics. , 2015, , .		2
77	Biosensors – Topical issue. <i>Chemical Papers</i> , 2015, 69, 1-3.	1.0	5
78	Glycoprofiling: A key to early prostate cancer diagnostics. , 2015, , .		0
79	Switchable Materials Containing Polyzwitterion Moieties. <i>Polymers</i> , 2015, 7, 2344-2370.	2.0	67
80	Carboxybetaine Modified Interface for Electrochemical Glycoprofiling of Antibodies Isolated from Human Serum. <i>Langmuir</i> , 2015, 31, 7148-7157.	1.6	31
81	<i>Gluconobacter sp.</i> cells for manufacturing of effective electrochemical biosensors and biofuel cells. <i>Chemical Papers</i> , 2015, 69, .	1.0	13
82	Graphene as signal amplifier for preparation of ultrasensitive electrochemical biosensors. <i>Chemical Papers</i> , 2015, 69, 112-133.	1.0	19
83	Electrochemistry of Nonconjugated Proteins and Glycoproteins. Toward Sensors for Biomedicine and Glycomics. <i>Chemical Reviews</i> , 2015, 115, 2045-2108.	23.0	273
84	Glycoprofiling of cancer biomarkers: Label-free electrochemical lectin-based biosensors. <i>Open Chemistry</i> , 2015, 13, 636-655.	1.0	48
85	Biooxidation of 2-phenylethanol to phenylacetic acid by whole-cell <i>Gluconobacter oxydans</i> biocatalyst immobilized in polyelectrolyte complex capsules. <i>Biocatalysis and Biotransformation</i> , 2015, 33, 111-120.	1.1	8
86	Can glycoprofiling be helpful in detecting prostate cancer?. <i>Chemical Papers</i> , 2015, 69, 90-111.	1.0	14
87	An ultrasensitive impedimetric glycan biosensor with controlled glycan density for detection of lectins and influenza hemagglutinins. <i>Chemical Communications</i> , 2015, 51, 7474-7477.	2.2	55
88	Interfacing of microbial cells with nanoparticles: Simple and cost-effective preparation of a highly sensitive microbial ethanol biosensor. <i>Chemical Papers</i> , 2015, 69, .	1.0	6
89	Whole-cell <i>Gluconobacter oxydans</i> biosensor for 2-phenylethanol biooxidation monitoring. <i>Analytica Chimica Acta</i> , 2015, 854, 140-144.	2.6	22
90	Glycoprofiling as a novel tool in serological assays of systemic sclerosis: A comparative study with three bioanalytical methods. <i>Analytica Chimica Acta</i> , 2015, 853, 555-562.	2.6	22

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91	Label-free impedimetric aptasensor with antifouling surface chemistry: A prostate specific antigen case study. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 306-312.	4.0	134
92	Application of nanomaterials in microbial-cell biosensor constructions. <i>Chemical Papers</i> , 2015, 69, .	1.0	15
93	Effective bioelectrocatalysis of bilirubin oxidase on electrochemically reduced graphene oxide. <i>Electrochemistry Communications</i> , 2014, 49, 70-74.	2.3	19
94	Nanomaterial-based microbial biosensor for detection of ethanol in real samples. <i>Journal of Biotechnology</i> , 2014, 185, S21.	1.9	4
95	Nanoscale-controlled architecture for the development of ultrasensitive lectin biosensors applicable in glycomics. <i>Analytical Methods</i> , 2014, 6, 4922.	1.3	33
96	Are glycan biosensors an alternative to glycan microarrays?. <i>Analytical Methods</i> , 2014, 6, 6610-6620.	1.3	26
97	The pH dependence of the cathodic peak potential of the active sites in bilirubin oxidase. <i>Bioelectrochemistry</i> , 2014, 96, 14-20.	2.4	24
98	Is graphene worth using in biofuel cells?. <i>Electrochimica Acta</i> , 2014, 136, 340-354.	2.6	89
99	Perspectives in Glycomics and Lectin Engineering. <i>Methods in Molecular Biology</i> , 2014, 1200, 421-445.	0.4	11
100	Comparison of the 2D and 3D Nanostructured Lectin-Based Biosensors for Detection of Sialic Acid on Glycoproteins. <i>International Journal of Electrochemical Science</i> , 2014, 9, 890-900.	0.5	24
101	Ultrasensitive Impedimetric Lectin Biosensors with Efficient Antifouling Properties Applied in Glycoprofiling of Human Serum Samples. <i>Analytical Chemistry</i> , 2013, 85, 7324-7332.	3.2	80
102	Ultrasensitive lectin biosensors applicable in glycomics and diagnostics. <i>Current Opinion in Biotechnology</i> , 2013, 24, S21.	3.3	0
103	Electrochemical lectin based biosensors as a label-free tool in glycomics. <i>Mikrochimica Acta</i> , 2013, 180, 1-13.	2.5	65
104	A Cell Cycle-Dependent Regulatory Circuit Composed of 53BP1-RIF1 and BRCA1-CtIP Controls DNA Repair Pathway Choice. <i>Molecular Cell</i> , 2013, 49, 872-883.	4.5	742
105	Label-free detection of glycoproteins by the lectin biosensor down to attomolar level using gold nanoparticles. <i>Talanta</i> , 2013, 108, 11-18.	2.9	86
106	Ultrasensitive impedimetric lectin based biosensor for glycoproteins containing sialic acid. <i>Mikrochimica Acta</i> , 2013, 180, 151-159.	2.5	43
107	Electrochemistry of bilirubin oxidase and its use in preparation of a low cost enzymatic biofuel cell based on a renewable composite binder chitosan. <i>Electrochimica Acta</i> , 2013, 87, 366-374.	2.6	37
108	Electrochemical Features of Bilirubin Oxidase Immobilized on Different Carbon Nanostructures. <i>Key Engineering Materials</i> , 2013, 543, 13-17.	0.4	4

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109	Immobilization in biotechnology and biorecognition: from macro- to nanoscale systems. <i>Chemical Papers</i> , 2012, 66, .	1.0	43
110	Analysis of ethanol in fermentation samples by a robust nanocomposite-based microbial biosensor. <i>Biotechnology Letters</i> , 2012, 34, 1033-1039.	1.1	20
111	Comparison of three distinct ELLA protocols for determination of apparent affinity constants between Con A and glycoproteins. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 94, 163-169.	2.5	18
112	Application of Enzyme Biosensors in Analysis of Food and Beverages. <i>Food Analytical Methods</i> , 2012, 5, 40-53.	1.3	82
113	A hyaluronic acid dispersed carbon nanotube electrode used for a mediatorless NADH sensing and biosensing. <i>Talanta</i> , 2011, 84, 355-361.	2.9	53
114	High performance microbial 3-D bionanocomposite as a bioanode for a mediated biosensor device. <i>Electrochemistry Communications</i> , 2011, 13, 966-968.	2.3	18
115	A biopolymer-based carbon nanotube interface integrated with a redox shuttle and a D-sorbitol dehydrogenase for robust monitoring of D-sorbitol. <i>Mikrochimica Acta</i> , 2011, 175, 21-30.	2.5	12
116	Glycan and lectin microarrays for glycomics and medicinal applications. <i>Medicinal Research Reviews</i> , 2010, 30, 394-418.	5.0	94
117	Coencapsulation of Oxygen Carriers and Glucose Oxidase in Polyelectrolyte Complex Capsules for the Enhancement of D-Gluconic Acid and Γ -Gluconolactone Production. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2010, 38, 90-98.	0.9	8
118	Highly Sensitive and Stable Electrochemical Sulfite Biosensor Incorporating a Bacterial Sulfite Dehydrogenase. <i>Analytical Chemistry</i> , 2010, 82, 7374-7379.	3.2	71
119	Lectinomics. <i>Biotechnology Advances</i> , 2009, 27, 1-15.	6.0	123
120	Membrane-bound dehydrogenases from <i>Gluconobacter</i> sp.: Interfacial electrochemistry and direct bioelectrocatalysis. <i>Bioelectrochemistry</i> , 2009, 76, 53-62.	2.4	80
121	Off-line FIA monitoring of d-sorbitol consumption during l-sorbose production using a sorbitol biosensor. <i>Analytica Chimica Acta</i> , 2009, 644, 68-71.	2.6	15
122	Peptide Aptamers in Label-Free Protein Detection: 2. Chemical Optimization and Detection of Distinct Protein Isoforms. <i>Analytical Chemistry</i> , 2009, 81, 3314-3320.	3.2	45
123	A mediatorless electrochemical detection of NADH on a biopolymer dispersed carbon nanotube layer. , 2009, , .		0
124	An optimised electrode pre-treatment for SAM formation on polycrystalline gold. <i>Journal of Electroanalytical Chemistry</i> , 2008, 621, 117-120.	1.9	90
125	A filtration probe-free on-line monitoring of glycerol during fermentation by a biosensor device. <i>Enzyme and Microbial Technology</i> , 2008, 42, 434-439.	1.6	9
126	Peptide Aptamers in Label-Free Protein Detection: 1. Characterization of the Immobilized Scaffold. <i>Analytical Chemistry</i> , 2007, 79, 1089-1096.	3.2	54

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127	Electrical wiring of <i>Pseudomonas putida</i> and <i>Pseudomonas fluorescens</i> with osmium redox polymers. <i>Bioelectrochemistry</i> , 2007, 71, 38-45.	2.4	50
128	The use of single walled carbon nanotubes dispersed in a chitosan matrix for preparation of a galactose biosensor. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1820-1824.	5.3	128
129	Nanotechnology gets into winemaking. <i>Nano Today</i> , 2007, 2, 48.	6.2	1
130	A novel microbial biosensor based on cells of <i>Gluconobacter oxydans</i> for the selective determination of 1,3-propanediol in the presence of glycerol and its application to bioprocess monitoring. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 287-295.	1.9	51
131	Dispersion of single walled carbon nanotubes. Comparison of different dispersing strategies for preparation of modified electrodes toward hydrogen peroxide detection. <i>Electrochemistry Communications</i> , 2006, 8, 899-903.	2.3	87
132	<i>Gluconobacter</i> in biosensors: applications of whole cells and enzymes isolated from <i>gluconobacter</i> and <i>acetobacter</i> to biosensor construction. <i>Biotechnology Letters</i> , 2006, 28, 2003-2010.	1.1	39
133	Intracellular monitoring of superoxide dismutase expression in an <i>Escherichia coli</i> fed-batch cultivation using on-line disruption with at-line surface plasmon resonance detection. <i>Analytical Biochemistry</i> , 2005, 342, 152-159.	1.1	13
134	Direct Electrochemistry of Proteins and Enzymes. <i>Perspectives in Bioanalysis</i> , 2005, , 517-598.	0.3	50
135	Direct electron transfer between copper-containing proteins and electrodes. <i>Biosensors and Bioelectronics</i> , 2005, 20, 2517-2554.	5.3	568
136	Biosensors with Immobilised Microbial Cells Using Amperometric and Thermal Detection Principles. , 2005, , 549-566.		10
137	Evaluation of disruption methods for the release of intracellular recombinant protein from <i>Escherichia coli</i> for analytical purposes. <i>Biotechnology and Applied Biochemistry</i> , 2004, 40, 83.	1.4	6
138	Off-line monitoring of bacterial stress response during recombinant protein production using an optical biosensor. <i>Journal of Biotechnology</i> , 2004, 111, 191-201.	1.9	12
139	Monitoring of the heat-shock response in <i>Escherichia coli</i> using an optical biosensor. <i>Analytical Biochemistry</i> , 2003, 322, 156-163.	1.1	10
140	Improved selectivity of microbial biosensor using membrane coating. Application to the analysis of ethanol during fermentation. <i>Biosensors and Bioelectronics</i> , 2003, 18, 1125-1134.	5.3	84
141	Stabilization of ferrocene leakage by physical retention in a cellulose acetate membrane. The fructose biosensor. <i>Bioelectrochemistry</i> , 2002, 55, 149-151.	2.4	27
142	Amperometric urea biosensor based on urease and electropolymerized toluidine blue dye as a pH-sensitive redox probe. <i>Bioelectrochemistry</i> , 2002, 56, 113-115.	2.4	86
143	Indirect evidence of direct electron communication between the active site of galactose oxidase and a graphite electrode. <i>Bioelectrochemistry</i> , 2002, 56, 23-25.	2.4	18
144	Monitoring of ethanol during fermentation using a microbial biosensor with enhanced selectivity. <i>Bioelectrochemistry</i> , 2002, 56, 127-129.	2.4	47

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145	Monitoring of the bioconversion of glycerol to dihydroxyacetone with immobilized <i>Gluconobacter oxydans</i> cell using thermometric flow injection analysis. <i>Process Biochemistry</i> , 2001, 36, 1045-1052.	1.8	33
146	Monitoring of dihydroxyacetone production during oxidation of glycerol by immobilized <i>Gluconobacter oxydans</i> cells with an enzyme biosensor. <i>Enzyme and Microbial Technology</i> , 2001, 28, 383-388.	1.6	55
147	Fructose biosensor based on d-fructose dehydrogenase immobilised on a ferrocene-embedded cellulose acetate membrane. <i>Analytica Chimica Acta</i> , 2001, 439, 39-46.	2.6	61
148	Determination of total sugars in lignocellulose hydrolysate by a mediated <i>Gluconobacter oxydans</i> biosensor. <i>Analytica Chimica Acta</i> , 2000, 420, 1-7.	2.6	50
149	Triglyceride Assay by Amperometric Microbial Biosensor: Sample Hydrolysis and Kinetic Approach. <i>Analytical Letters</i> , 2000, 33, 2441-2452.	1.0	27
150	Novel glucose non-interference biosensor for lactose detection based on galactose oxidase- α -peroxidase with and without co-immobilised β -galactosidase. <i>Analyst</i> , The, 2000, 125, 1285-1289.	1.7	49
151	Title is missing!. <i>Biotechnology Letters</i> , 1999, 13, 931-936.	0.5	27
152	Microbial cell-based biosensor for sensing glucose, sucrose or lactose. <i>Biotechnology and Applied Biochemistry</i> , 1998, 27, 153-8.	1.4	49
153	Ti ₃ C ₂ MXene-Based Nanobiosensors for Detection of Cancer Biomarkers. , 0, , .		3
154	Chapter 7. Label-free Field Effect ProteinSensing. , 0, , 193-224.		9
155	Novel Analysis of Glycan Structures: Nanoscale Approach. , 0, , .		0