

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	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
2	Direct electron transfer between copper-containing proteins and electrodes. <i>Biosensors and Bioelectronics</i> , 2005, 20, 2517-2554.	5.3	568
3	Electrochemistry of Nonconjugated Proteins and Glycoproteins. Toward Sensors for Biomedicine and Glycomics. <i>Chemical Reviews</i> , 2015, 115, 2045-2108.	23.0	273
4	Electrochemical biosensors and nanobiosensors. <i>Essays in Biochemistry</i> , 2016, 60, 69-80.	2.1	265
5	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
6	Highly stable Ti ₃ C ₂ T _x (MXene)/Pt nanoparticles-modified glassy carbon electrode for H ₂ O ₂ and small molecules sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2018, 263, 360-368.	4.0	202
7	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
8	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
9	Lectinomics. <i>Biotechnology Advances</i> , 2009, 27, 1-15.	6.0	123
10	HELB Is a Feedback Inhibitor of DNA End Resection. <i>Molecular Cell</i> , 2016, 61, 405-418.	4.5	119
11	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
12	Glycan and lectin microarrays for glycomics and medicinal applications. <i>Medicinal Research Reviews</i> , 2010, 30, 394-418.	5.0	94
13	Nanomaterial-based biosensors for detection of prostate specific antigen. <i>Mikrochimica Acta</i> , 2017, 184, 3049-3067.	2.5	94
14	An optimised electrode pre-treatment for SAM formation on polycrystalline gold. <i>Journal of Electroanalytical Chemistry</i> , 2008, 621, 117-120.	1.9	90
15	Is graphene worth using in biofuel cells?. <i>Electrochimica Acta</i> , 2014, 136, 340-354.	2.6	89
16	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
17	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
18	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

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19	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
20	Application of Enzyme Biosensors in Analysis of Food and Beverages. <i>Food Analytical Methods</i> , 2012, 5, 40-53.	1.3	82
21	Membrane-bound dehydrogenases from <i>Gluconobacter</i> sp.: Interfacial electrochemistry and direct bioelectrocatalysis. <i>Bioelectrochemistry</i> , 2009, 76, 53-62.	2.4	80
22	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
23	Ultrasensitive detection of influenza viruses with a glycan-based impedimetric biosensor. <i>Biosensors and Bioelectronics</i> , 2016, 79, 644-649.	5.3	76
24	Highly Sensitive and Stable Electrochemical Sulfite Biosensor Incorporating a Bacterial Sulfite Dehydrogenase. <i>Analytical Chemistry</i> , 2010, 82, 7374-7379.	3.2	71
25	Switchable Materials Containing Polyzwitterion Moieties. <i>Polymers</i> , 2015, 7, 2344-2370.	2.0	67
26	Electrochemical lectin based biosensors as a label-free tool in glycomics. <i>Mikrochimica Acta</i> , 2013, 180, 1-13.	2.5	65
27	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
28	CCNE1 amplification is synthetic lethal with PKMYT1 kinase inhibition. <i>Nature</i> , 2022, 604, 749-756.	13.7	60
29	Ultrasensitive Ti3C2TX 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
30	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
31	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
32	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
33	Peptide Aptamers in Label-Free Protein Detection: 1. Characterization of the Immobilized Scaffold. <i>Analytical Chemistry</i> , 2007, 79, 1089-1096.	3.2	54
34	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
35	Prostate-specific antigen glycoprofiling as diagnostic and prognostic biomarker of prostate cancer. <i>Interface Focus</i> , 2019, 9, 20180077.	1.5	53
36	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

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37	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
38	Glycan and lectin biosensors. <i>Essays in Biochemistry</i> , 2016, 60, 37-47.	2.1	51
39	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
40	Direct Electrochemistry of Proteins and Enzymes. <i>Perspectives in Bioanalysis</i> , 2005, , 517-598.	0.3	50
41	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
42	Novel glucose non-interference biosensor for lactose detection based on galactose oxidaseâ€peroxidase with and without co-immobilised β -galactosidase. <i>Analyst, The</i> , 2000, 125, 1285-1289.	1.7	49
43	Microbial cell-based biosensor for sensing glucose, sucrose or lactose. <i>Biotechnology and Applied Biochemistry</i> , 1998, 27, 153-8.	1.4	49
44	Glycoprofiling of cancer biomarkers: Label-free electrochemical lectin-based biosensors. <i>Open Chemistry</i> , 2015, 13, 636-655.	1.0	48
45	Tailoring Electrocatalytic Properties of Pt Nanoparticles Grown on $\text{Ti}_{3}\text{C}_{2}\text{X}_{\text{M}}\text{Xene}$ Surface. <i>Journal of the Electrochemical Society</i> , 2019, 166, H54-H62.	1.3	48
46	Monitoring of ethanol during fermentation using a microbial biosensor with enhanced selectivity. <i>Bioelectrochemistry</i> , 2002, 56, 127-129.	2.4	47
47	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
48	Nanotechnology in Glycomics: Applications in Diagnostics, Therapy, Imaging, and Separation Processes. <i>Medicinal Research Reviews</i> , 2017, 37, 514-626.	5.0	45
49	Immobilization in biotechnology and biorecognition: from macro- to nanoscale systems. <i>Chemical Papers</i> , 2012, 66, .	1.0	43
50	Ultrasensitive impedimetric lectin based biosensor for glycoproteins containing sialic acid. <i>Mikrochimica Acta</i> , 2013, 180, 151-159.	2.5	43
51	Sensitive detection and glycoprofiling of a prostate specific antigen using impedimetric assays. <i>Analyst, The</i> , 2016, 141, 1044-1051.	1.7	41
52	<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
53	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
54	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

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55	Electrochemical Nanobiosensors for Detection of Breast Cancer Biomarkers. <i>Sensors</i> , 2020, 20, 4022.	2.1	37
56	2D MXenes as Perspective Immobilization Platforms for Design of Electrochemical Nanobiosensors. <i>Electroanalysis</i> , 2019, 31, 1833-1844.	1.5	36
57	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
58	Nanoscale-controlled architecture for the development of ultrasensitive lectin biosensors applicable in glycomics. <i>Analytical Methods</i> , 2014, 6, 4922.	1.3	33
59	Label-free chronopotentiometric glycoprofiling of prostate specific antigen using sialic acid recognizing lectins. <i>Bioelectrochemistry</i> , 2017, 117, 89-94.	2.4	33
60	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
61	Carboxybetaine Modified Interface for Electrochemical Glycoprofiling of Antibodies Isolated from Human Serum. <i>Langmuir</i> , 2015, 31, 7148-7157.	1.6	31
62	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
63	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
64	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
65	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
66	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
67	Title is missing!. <i>Biotechnology Letters</i> , 1999, 13, 931-936.	0.5	27
68	Triglyceride Assay by Amperometric Microbial Biosensor: Sample Hydrolysis and Kinetic Approach. <i>Analytical Letters</i> , 2000, 33, 2441-2452.	1.0	27
69	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
70	Are glycan biosensors an alternative to glycan microarrays?. <i>Analytical Methods</i> , 2014, 6, 6610-6620.	1.3	26
71	Graphene oxide-based electrochemical label-free detection of glycoproteins down to aM level using a lectin biosensor. <i>Analyst</i> , The, 2016, 141, 4278-4282.	1.7	26
72	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

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73	Glycomics of prostate cancer: updates. <i>Expert Review of Proteomics</i> , 2019, 16, 65-76.	1.3	25
74	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
75	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
76	Exosomes as a Source of Cancer Biomarkers: Advances in Electrochemical Biosensing of Exosomes. <i>ChemElectroChem</i> , 2020, 7, 1956-1973.	1.7	23
77	Whole-cell <i>Gluconobacter oxydans</i> biosensor for 2-phenylethanol biooxidation monitoring. <i>Analytica Chimica Acta</i> , 2015, 854, 140-144.	2.6	22
78	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
79	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
80	Analysis of ethanol in fermentation samples by a robust nanocomposite-based microbial biosensor. <i>Biotechnology Letters</i> , 2012, 34, 1033-1039.	1.1	20
81	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
82	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
83	Glycan Nanobiosensors. <i>Nanomaterials</i> , 2020, 10, 1406.	1.9	20
84	Effective bioelectrocatalysis of bilirubin oxidase on electrochemically reduced graphene oxide. <i>Electrochemistry Communications</i> , 2014, 49, 70-74.	2.3	19
85	Graphene as signal amplifier for preparation of ultrasensitive electrochemical biosensors. <i>Chemical Papers</i> , 2015, 69, 112-133.	1.0	19
86	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
87	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
88	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
89	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
90	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

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91	Ti3C2Tx MXene-Based Light-Responsive Hydrogel Composite for Bendable Bilayer Photoactuator. <i>Nanomaterials</i> , 2020, 10, 1419.	1.9	18
92	Challenges for impedimetric affinity sensors targeting protein detection. <i>Current Opinion in Electrochemistry</i> , 2021, 28, 100717.	2.5	18
93	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
94	A Graphene-Based Glycan Biosensor for Electrochemical Label-Free Detection of a Tumor-Associated Antibody. <i>Sensors</i> , 2019, 19, 5409.	2.1	17
95	Validating fPSA Glycoprofile as a Prostate Cancer Biomarker to Avoid Unnecessary Biopsies and Re-Biopsies. <i>Cancers</i> , 2020, 12, 2988.	1.7	16
96	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
97	Application of nanomaterials in microbial-cell biosensor constructions. <i>Chemical Papers</i> , 2015, 69, .	1.0	15
98	Can glycoprofiling be helpful in detecting prostate cancer?. <i>Chemical Papers</i> , 2015, 69, 90-111.	1.0	14
99	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
100	Intracellular monitoring of superoxide dismutase expression in an Escherichia coli 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
101	Gluconobacter sp. cells for manufacturing of effective electrochemical biosensors and biofuel cells. <i>Chemical Papers</i> , 2015, 69, .	1.0	13
102	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
103	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
104	Sweet Strategies in Prostate Cancer Biomarker Research: Focus on a Prostate Specific Antigen. <i>BioNanoScience</i> , 2018, 8, 690-700.	1.5	12
105	Glycan-modified interfaces in biosensing: an electrochemical approach. <i>Current Opinion in Electrochemistry</i> , 2019, 14, 60-65.	2.5	12
106	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
107	Perspectives in Glycomics and Lectin Engineering. <i>Methods in Molecular Biology</i> , 2014, 1200, 421-445.	0.4	11
108	Exosomes from prostate cancer cell lines: Isolation optimisation and characterisation. <i>Biomedicine and Pharmacotherapy</i> , 2022, 151, 113093.	2.5	11

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109	Monitoring of the heat-shock response in Escherichia coli using an optical biosensor. Analytical Biochemistry, 2003, 322, 156-163.	1.1	10
110	Biosensors with Immobilised Microbial Cells Using Amperometric and Thermal Detection Principles. , 2005, , 549-566.		10
111	Antibodies against aberrant glycans as cancer biomarkers. Expert Review of Molecular Diagnostics, 2019, 19, 1057-1068.	1.5	10
112	Synthesis and characterization of Au nanoshells with a magnetic core and betaine derivatives. MethodsX, 2019, 6, 1999-2012.	0.7	10
113	Screen-printed conductive carbon layers for dye-sensitized solar cells and electrochemical detection of dopamine. Chemical Papers, 2021, 75, 3817-3829.	1.0	10
114	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. Bioorganic and Medicinal Chemistry, 2021, 39, 116156.	1.4	10
115	Novel Prostate Cancer Biomarkers: Aetiology, Clinical Performance and Sensing Applications. Chemosensors, 2021, 9, 205.	1.8	10
116	Identification of Whole-Serum Glycobiomarkers for Colorectal Carcinoma Using Reverse-Phase Lectin Microarray. Frontiers in Oncology, 2021, 11, 735338.	1.3	10
117	A filtration probe-free on-line monitoring of glycerol during fermentation by a biosensor device. Enzyme and Microbial Technology, 2008, 42, 434-439.	1.6	9
118	Optimization of the Small Glycan Presentation for Binding a Tumor-Associated Antibody: Application to the Construction of an Ultrasensitive Glycan Biosensor. Langmuir, 2017, 33, 2709-2716.	1.6	9
119	pH-Switchable Interaction of a Carboxybetaine Ester-Based SAM with DNA and Gold Nanoparticles. Langmuir, 2017, 33, 6657-6666.	1.6	9
120	Analysis of serum glycome by lectin microarrays for prostate cancer patients - a search for aberrant glycoforms. Glycoconjugate Journal, 2020, 37, 703-711.	1.4	9
121	Chapter 7. Label-free Field Effect ProteinSensing. , 0, , 193-224.		9
122	Coencapsulation of Oxygen Carriers and Glucose Oxidase in Polyelectrolyte Complex Capsules for the Enhancement of D-Gluconic Acid and l-Gluconolactone Production. Artificial Cells, Blood Substitutes, and Biotechnology, 2010, 38, 90-98.	0.9	8
123	Biooxidation of 2-phenylethanol to phenylacetic acid by whole-cellGluconobacter oxydansbiocatalyst immobilized in polyelectrolyte complex capsules. Biocatalysis and Biotransformation, 2015, 33, 111-120.	1.1	8
124	Identification of Molecular Fluorophore as a Component of Carbon Dots able to Induce Gelation in a Fluorescent Multivalent-Metal-Ion-Free Alginate Hydrogel. Scientific Reports, 2019, 9, 15080.	1.6	7
125	Graphene oxide sensors of high sensitivity fabricated using cold atmospheric-pressure hydrogen plasma for use in the detection of small organic molecules. Journal of Applied Physics, 2020, 128, .	1.1	7
126	Evaluation of disruption methods for the release of intracellular recombinant protein from Escherichia coli for analytical purposes. Biotechnology and Applied Biochemistry, 2004, 40, 83.	1.4	6

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127	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
128	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
129	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
130	Biosensors – Topical issue. <i>Chemical Papers</i> , 2015, 69, 1-3.	1.0	5
131	Influence of direct electric field on PMCG-alginate-based microcapsule. <i>Emergent Materials</i> , 2021, 4, 769-779.	3.2	5
132	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
133	Electrochemical Features of Bilirubin Oxidase Immobilized on Different Carbon Nanostructures. <i>Key Engineering Materials</i> , 2013, 543, 13-17.	0.4	4
134	Nanomaterial-based microbial biosensor for detection of ethanol in real samples. <i>Journal of Biotechnology</i> , 2014, 185, S21.	1.9	4
135	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
136	Ti ₃ C ₂ MXene-Based Nanobiosensors for Detection of Cancer Biomarkers. , 0, , .		3
137	Nicotinamide-based supergelator self-assembling via asymmetric hydrogen bonding NH ⁻ OC and H ⁻ Br ⁺ 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
138	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
139	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
140	Graphene-based lectin biosensor for ultrasensitive detection of glycan structures applicable in early diagnostics. , 2015, , .		2
141	Progress in emerging techniques for characterization of immobilized viable whole-cell biocatalysts. <i>Chemical Papers</i> , 2017, 71, 2309-2324.	1.0	2
142	Glycan Analysis as Biomarkers for Testicular Cancer. <i>Diagnostics</i> , 2019, 9, 156.	1.3	2
143	Nanotechnology gets into winemaking. <i>Nano Today</i> , 2007, 2, 48.	6.2	1
144	Enzymatic Electrodes: Characteristics, Fabrication Methods, and Applications. , 2018, , 190-199.		1

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145	Electrochemical surface activation of commercial tungsten carbide for enhanced electrocatalytic hydrogen evolution and methanol oxidation reactions. Journal of Electroanalytical Chemistry, 2022, 919, 116525.	1.9	1
146	A mediatorless electrochemical detection of NADH on a biopolymer dispersed carbon nanotube layer. , 2009, , .		0
147	Ultrasensitive lectin biosensors applicable in glycomics and diagnostics. Current Opinion in Biotechnology, 2013, 24, S21.	3.3	0
148	Glycoprofiling: A key to early prostate cancer diagnostics. , 2015, , .		0
149	Carboxybetaine Ester Feature as a Platform for Switchable Surface Properties. , 2016, , .		0
150	Microdetectives: Fundamentals, Fabrication, and Applications of Electrochemical Microbial Biosensors. , 2018, , 337-349.		0
151	Exosomes as a Source of Cancer Biomarkers: Advances in Electrochemical Biosensing of Exosomes. ChemElectroChem, 2020, 7, 1955-1955.	1.7	0
152	Novel Analysis of Glycan Structures: Nanoscale Approach. , 0, , .		0
153	Tandem Osmotic Engine Based on Hydrogel Particles with Antipolyelectrolyte and Polyelectrolyte Effect Fuelled by Both Salinity Gradient Modes. Gels, 2021, 7, 232.	2.1	0
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