Jaroslav KatrlÃ-k

List of Publications by Year
in descending order

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57 papers	1,890 citations	331670 21 h-index	254184 43 g-index
63 all docs	63 docs citations	63 times ranked	2454 citing authors

#	Article	IF	Citations
1	SPR biosensor chip based on mannan isolated from Candida dubliniensis yeasts applied in immunization effectiveness testing. Sensors and Actuators B: Chemical, 2022, 350, 130883.	7.8	3
2	Lectin-Based Protein Microarray for the Glycan Analysis of Colorectal Cancer Biomarkers: The Insulin-Like Growth Factor System. Methods in Molecular Biology, 2022, 2460, 207-222.	0.9	2
3	Features, modulation and analysis of glycosylation patterns of therapeutic recombinant immunoglobulin A. Biotechnology and Genetic Engineering Reviews, 2022, 38, 247-269.	6.2	4
4	Electrical SPR biosensor with thermal annealed graphene oxide: Concept of highly sensitive biomolecule detection. Biosensors and Bioelectronics: X, 2022, 11, 100152.	1.7	1
5	Electrochemical Aptasensors for Parkinsonâ€™s Disease Biomarkers Detection. Current Medicinal Chemistry, 2022, 29, 5795-5814.	2.4	2
6	Lectin-based assay for the determination of the inhibition activity of small molecule inhibitors of neuraminidases. Journal of Biotechnology, 2021, 325, 65-72.	3.8	3
7	Sensitive glycoprofiling of insulin-like growth factor receptors isolated from colon tissue of patients with colorectal carcinoma using lectin-based protein microarray. International Journal of Biological Macromolecules, 2020, 144, 932-937.	7.5	7
8	Fibrinogen Fucosylation as a Prognostic Marker of End-Stage Renal Disease in Patients on Peritoneal Dialysis. Biomolecules, 2020, 10, 1165.	4.0	8
9	Analytical techniques for multiplex analysis of protein biomarkers. Expert Review of Proteomics, 2020, 17, 257-273.	3.0	60
10	Influence of media composition on recombinant monoclonal IgA1 glycosylation analysed by lectin-based protein microarray and MALDI-MS. Journal of Biotechnology, 2020, 314-315, 34-40.	3.8	14
11	Glycoanalysis of the placental membrane glycoproteins throughout placental development. Mechanisms of Ageing and Development, 2019, 183, 111151.	4.6	8
12	Changes Due to Ageing in the Glycan Structure of Alpha-2-Macroglobulin and Its Reactivity with Ligands. Protein Journal, 2019, 38, 23-29.	1.6	6
13	Diagnostic Potential of Transferrin Glycoformsâ€”A Lectinâ€Based Protein Microarray Approach. Proteomics - Clinical Applications, 2019, 13, 1800185.	1.6	6
14	Lectin-based biosensing for medicine and biotechnology. Journal of Biotechnology, 2019, 305, S2.	3.8	0
15	Methods and Current Trends in Determination of Neuraminidase Activity and Evaluation of Neuraminidase Inhibitors. Critical Reviews in Analytical Chemistry, 2019, 49, 350-367.	3.5	14
16	Hypotension as a symptom of autonomic neuropathy in patients with advanced malignancies. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2019, 163, 331-334.	0.6	2
17	Structural changes of fibrinogen as a consequence of cirrhosis. Thrombosis Research, 2018, 166, 43-49.	1.7	11
18	Sweet Strategies in Prostate Cancer Biomarker Research: Focus on a Prostate Specific Antigen. BioNanoScience, 2018, 8, 690-700.	3.5	12

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19	Structural and functional changes of fibrinogen due to aging. International Journal of Biological Macromolecules, 2018, 108, 1028-1034.	7.5	16
20	Screening for the best detergent for the isolation of placental membrane proteins. International Journal of Biological Macromolecules, 2017, 102, 431-437.	7.5	3
21	Analysis of changes in the glycan composition of serum, cytosol and membrane glycoprotein biomarkers of colorectal cancer using a lectin-based protein microarray. Analytical Methods, 2017, 9, 2660-2666.	2.7	11
22	The expression of P-gp in leukemia cells is associated with cross-resistance to protein N-glycosylation inhibitor tunicamycin. General Physiology and Biophysics, 2016, 35, 497-510.	0.9	12
23	Study of interactions between blood plasma proteins and poly(butyl cyanoacrylate) drug nanocarriers by surface plasmon resonance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 510, 309-316.	4.7	6
24	A lectin-based cell microarray approach to analyze the mammalian granulosa cell surface glycosylation profile. Glycoconjugate Journal, 2016, 33, 717-724.	2.7	12
25	Determining the binding affinities of prostateâ€specific antigen to lectins: SPR and microarray approaches. Proteomics, 2016, 16, 3096-3104.	2.2	11
26	Glycan and lectin biosensors. Essays in Biochemistry, 2016, 60, 37-47.	4.7	51
27	Optical biosensors. Essays in Biochemistry, 2016, 60, 91-100.	4.7	568
28	Lectin-based lateral flow assay: proof-of-concept. Analyst, The, 2016, 141, 6444-6448.	3.5	25
29	Lectinâ€based protein microarray analysis of differences in serum alphaâ€2â€macroglobulin glycosylation between patients with colorectal cancer and persons without cancer. Biotechnology and Applied Biochemistry, 2016, 63, 457-464.	3.1	18
30	DNA aptamer-based sandwich microfluidic assays for dual quantification and multi-glycan profiling of cancer biomarkers. Biosensors and Bioelectronics, 2016, 79, 313-319.	10.1	61
31	Surface plasmon resonance application in prostate cancer biomarker research. Chemical Papers, 2015, 69, .	2.2	18
32	An ultrasensitive impedimetric glycan biosensor with controlled glycan density for detection of lectins and influenza hemagglutinins. Chemical Communications, 2015, 51, 7474-7477.	4.1	55
33	Whole-cell Gluconobacter oxydans biosensor for 2-phenylethanol biooxidation monitoring. Analytica Chimica Acta, 2015, 854, 140-144.	5.4	22
34	Glycoprofiling as a novel tool in serological assays of systemic sclerosis: A comparative study with three bioanalytical methods. Analytica Chimica Acta, 2015, 853, 555-562.	5.4	22
35	Microbial monooxygenase amperometric biosensor for monitoring of Baeyerâ€“Villiger biotransformation. Biosensors and Bioelectronics, 2013, 50, 235-238.	10.1	11
36	Electrochemical lectin based biosensors as a label-free tool in glycomics. Mikrochimica Acta, 2013, 180, 1-13.	5.0	65

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37	Biosensors and biochips for study of glycan structures changes in colorectal cancer. Current Opinion in Biotechnology, 2013, 24, S65.	6.6	0
38	Label-free detection of glycoproteins by the lectin biosensor down to attomolar level using gold nanoparticles. Talanta, 2013, 108, 11-18.	5.5	86
39	Lightâ€Switchable Polymer from Cationic to Zwitterionic Form: Synthesis, Characterization, and Interactions with DNA and Bacterial Cells. Macromolecular Rapid Communications, 2013, 34, 635-639.	3.9	32
40	Immobilization in biotechnology and biorecognition: from macro- to nanoscale systems. Chemical Papers, 2012, 66, .	2.2	43
41	Comparison of three distinct ELLA protocols for determination of apparent affinity constants between Con A and glycoproteins. Colloids and Surfaces B: Biointerfaces, 2012, 94, 163-169.	5.0	18
42	Binding of d-mannose-containing glycoproteins to d-mannose-specific lectins studied by surface plasmon resonance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 382, 198-202.	4.7	14
43	Glycan and lectin microarrays for glycomics and medicinal applications. Medicinal Research Reviews, 2010, 30, 394-418.	10.5	94
44	Ethanol Gluconobacter biosensor designed for flow injection analysis. Sensors and Actuators B: Chemical, 2009, 138, 581-586.	7.8	32
45	Off-line FIA monitoring of d-sorbitol consumption during l-sorbose production using a sorbitol biosensor. Analytica Chimica Acta, 2009, 644, 68-71.	5.4	15
46	A filtration probe-free on-line monitoring of glycerol during fermentation by a biosensor device. Enzyme and Microbial Technology, 2008, 42, 434-439.	3.2	9
47	Nanotechnology gets into winemaking. Nano Today, 2007, 2, 48.	11.9	1
48	A novel microbial biosensor based on cells of Gluconobacter oxydans for the selective determination of 1,3-propanediol in the presence of glycerol and its application to bioprocess monitoring. Analytical and Bioanalytical Chemistry, 2007, 388, 287-295.	3.7	51
49	Amperometric biosensors based on two different enzyme systems and their use for glycerol determination in samples from biotechnological fermentation process. Analytica Chimica Acta, 2006, 566, 11-18.	5.4	34
50	Development of enzyme flow calorimeter system for monitoring of microbial glycerol conversion. Applied Microbiology and Biotechnology, 2006, 72, 1170-1175.	3.6	9
51	Nitric oxide determination by amperometric carbon fiber microelectrode. Bioelectrochemistry, 2002, 56, 73-76.	4.6	31
52	Biosensors for L-malate and L-lactate based on solid binding matrix. Analytica Chimica Acta, 1999, 379, 193-200.	5.4	59
53	Composite alcohol biosensors based on solid binding matrix. Biosensors and Bioelectronics, 1998, 13, 181-191.	10.1	29
54	Amperometric biosensors based on solid binding matrices applied in food quality monitoring. Biosensors and Bioelectronics, 1998, 13, 911-923.	10.1	83

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55	Composite Transducers for Amperometric Biosensors. The Glucose Sensor. Analytical Chemistry, 1997, 69, 2086-2090.	6.5	58
56	Mediator type of glucose microbial biosensor based on Aspergillus niger. Analytica Chimica Acta, 1997, 356, 217-224.	5.4	22
57	Whole cell amperometric biosensor based on Aspergillus niger for determination of glucose with enhanced upper linearity limit. Analytica Chimica Acta, 1996, 331, 225-232.	5.4	18