Tomas Bertok

List of Publications by Year in descending order

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50 papers	2,075 citations	257450 24 h-index	233421 45 g-index
53 all docs	53 docs citations	53 times ranked	2578 citing authors

#	Article	IF	Citations
1	Glycan signatures for the identification of cisplatinâ€resistant testicular cancer cell lines: Specific glycoprofiling of human chorionic gonadotropin (hCG). Cancer Medicine, 2022, , .	2.8	3
2	Exosomes from prostate cancer cell lines: Isolation optimisation and characterisation. Biomedicine and Pharmacotherapy, 2022, 151, 113093.	5.6	11
3	Screen-printed conductive carbon layers for dye-sensitized solar cells and electrochemical detection of dopamine. Chemical Papers, 2021, 75, 3817-3829.	2.2	10
4	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.	3.0	10
5	Novel Prostate Cancer Biomarkers: Aetiology, Clinical Performance and Sensing Applications. Chemosensors, 2021, 9, 205.	3.6	10
6	Challenges for impedimetric affinity sensors targeting proteinÂdetection. Current Opinion in Electrochemistry, 2021, 28, 100717.	4.8	18
7	Breast cancer glycan biomarkers: their link to tumour cell metabolism and their perspectives in clinical practice. Expert Review of Proteomics, 2021, 18, 881-910.	3.0	5
8	SENSITIVE AMPEROMETRIC NANOBIOSENSOR FOR DETECTION OF SARCOSINE - POTENTIAL PROSTATE CANCER MARKER - IN URINE SAMPLES. , 2021, , .		0
9	Identification of Whole-Serum Glycobiomarkers for Colorectal Carcinoma Using Reverse-Phase Lectin Microarray. Frontiers in Oncology, 2021, 11, 735338.	2.8	10
10	Electrochemical Investigation of Interfacial Properties of Ti3C2Tx MXene Modified by Aryldiazonium Betaine Derivatives. Frontiers in Chemistry, 2020, 8, 553.	3.6	20
11	Validating fPSA Glycoprofile as a Prostate Cancer Biomarker to Avoid Unnecessary Biopsies and Re-Biopsies. Cancers, 2020, 12, 2988.	3.7	16
12	Analysis of serum glycome by lectin microarrays for prostate cancer patients - a search for aberrant glycoforms. Glycoconjugate Journal, 2020, 37, 703-711.	2.7	9
13	Ultrasensitive Ti3C2TX MXene/Chitosan Nanocomposite-Based Amperometric Biosensor for Detection of Potential Prostate Cancer Marker in Urine Samples. Processes, 2020, 8, 580.	2.8	58
14	Exosomes as a Source of Cancer Biomarkers: Advances in Electrochemical Biosensing of Exosomes. ChemElectroChem, 2020, 7, 1956-1973.	3.4	23
15	Exosomes as a Source of Cancer Biomarkers: Advances in Electrochemical Biosensing of Exosomes. ChemElectroChem, 2020, 7, 1955-1955.	3.4	0
16	Synthesis and characterization of Au nanoshells with a magnetic core and betaine derivatives. MethodsX, 2019, 6, 1999-2012.	1.6	10
17	Tailoring Electrocatalytic Properties of Pt Nanoparticles Grown on Ti₃C₂T_XMXene Surface. Journal of the Electrochemical Society, 2019, 166, H54-H62.	2.9	48
18	Advanced impedimetric biosensor configuration and assay protocol for glycoprofiling of a prostate oncomarker using Au nanoshells with a magnetic core. Biosensors and Bioelectronics, 2019, 131, 24-29.	10.1	29

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19	2D MXenes as Perspective Immobilization Platforms for Design of Electrochemical Nanobiosensors. Electroanalysis, 2019, 31, 1833-1844.	2.9	36
20	Prostate-specific antigen glycoprofiling as diagnostic and prognostic biomarker of prostate cancer. Interface Focus, 2019, 9, 20180077.	3.0	53
21	Electrochemical Impedance Spectroscopy Based Biosensors: Mechanistic Principles, Analytical Examples and Challenges towards Commercialization for Assays of Protein Cancer Biomarkers. ChemElectroChem, 2019, 6, 989-1003.	3.4	114
22	Glycomics of prostate cancer: updates. Expert Review of Proteomics, 2019, 16, 65-76.	3.0	25
23	Highly stable Ti3C2Tx (MXene)/Pt nanoparticles-modified glassy carbon electrode for H2O2 and small molecules sensing applications. Sensors and Actuators B: Chemical, 2018, 263, 360-368.	7.8	202
24	Glycomics meets artificial intelligence â€“ Potential of glycan analysis for identification of seropositive and seronegative rheumatoid arthritis patients revealed. Clinica Chimica Acta, 2018, 481, 49-55.	1.1	26
25	Interfaces study of all-polysaccharide composite films. Chemical Papers, 2018, 72, 711-718.	2.2	2
26	Advanced antifouling zwitterionic layer based impedimetric HER2 biosensing in human serum: Glycoprofiling as a novel approach for breast cancer diagnostics. Sensors and Actuators B: Chemical, 2018, 272, 626-633.	7.8	28
27	Modulation of wettability, gradient and adhesion on self-assembled monolayer by counterion exchange and pH. Journal of Colloid and Interface Science, 2018, 512, 511-521.	9.4	18
28	pH-Switchable Interaction of a Carboxybetaine Ester-Based SAM with DNA and Gold Nanoparticles. Langmuir, 2017, 33, 6657-6666.	3.5	9
29	Label-free chronopotentiometric glycoprofiling of prostate specific antigen using sialic acid recognizing lectins. Bioelectrochemistry, 2017, 117, 89-94.	4.6	33
30	Self-assembled gold nanoparticles for impedimetric and amperometric detection of a prostate cancer biomarker. Sensors and Actuators B: Chemical, 2017, 251, 637-643.	7.8	52
31	Electrochemical performance of Ti3C2Tx MXene in aqueous media: towards ultrasensitive H2O2 sensing. Electrochimica Acta, 2017, 235, 471-479.	5.2	215
32	Nanomaterial-based biosensors for detection of prostate specific antigen. Mikrochimica Acta, 2017, 184, 3049-3067.	5.0	94
33	Nanotechnology in Glycomics: Applications in Diagnostics, Therapy, Imaging, and Separation Processes. Medicinal Research Reviews, 2017, 37, 514-626.	10.5	45
34	Composite films prepared from agricultural by-products. Carbohydrate Polymers, 2017, 156, 77-85.	10.2	16
35	Sweet characterisation of prostate specific antigen using electrochemical lectinâ€based immunosensor assay and MALDI TOF/TOF analysis: Focus on sialic acid. Proteomics, 2016, 16, 3085-3095.	2.2	31
36	Simple, Reversible, and Fast Modulation in Superwettability, Gradient, and Adsorption by Counterion Exchange on Self-Assembled Monolayer. Langmuir, 2016, 32, 5491-5499.	3.5	38

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37	Carboxybetaine Ester Feature as a Platform for Switchable Surface Properties. , 2016, , .		0
38	Mixed Zwitterion-Based Self-Assembled Monolayer Interface for Impedimetric Glycomic Analyses of Human IgG Samples in an Array Format. Langmuir, 2016, 32, 7070-7078.	3.5	22
39	Ultrasensitive detection of influenza viruses with a glycan-based impedimetric biosensor. Biosensors and Bioelectronics, 2016, 79, 644-649.	10.1	76
40	Carboxybetaine Modified Interface for Electrochemical Glycoprofiling of Antibodies Isolated from Human Serum. Langmuir, 2015, 31, 7148-7157.	3.5	31
41	Gluconobacter sp. cells for manufacturing of effective electrochemical biosensors and biofuel cells. Chemical Papers, 2015, 69, .	2.2	13
42	Electrochemistry of Nonconjugated Proteins and Glycoproteins. Toward Sensors for Biomedicine and Glycomics. Chemical Reviews, 2015, 115, 2045-2108.	47.7	273
43	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
44	Perspectives in Glycomics and Lectin Engineering. Methods in Molecular Biology, 2014, 1200, 421-445.	0.9	11
45	Comparison of the 2D and 3D Nanostructured Lectin-Based Biosensors for Detection of Sialic Acid on Glycoproteins. International Journal of Electrochemical Science, 2014, 9, 890-900.	1.3	24
46	Ultrasensitive Impedimetric Lectin Biosensors with Efficient Antifouling Properties Applied in Glycoprofiling of Human Serum Samples. Analytical Chemistry, 2013, 85, 7324-7332.	6.5	80
47	Electrochemical lectin based biosensors as a label-free tool in glycomics. Mikrochimica Acta, 2013, 180, 1-13.	5.0	65
48	Label-free detection of glycoproteins by the lectin biosensor down to attomolar level using gold nanoparticles. Talanta, 2013, 108, 11-18.	5.5	86
49	Ultrasensitive impedimetric lectin based biosensor for glycoproteins containing sialic acid. Mikrochimica Acta, 2013, 180, 151-159.	5.0	43
50	Novel Analysis of Glycan Structures: Nanoscale Approach. , 0, , .		0