

Tomas Bertok

List of Publications by Year in descending order

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Version: 2024-02-01

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	Electrochemistry of Nonconjugated Proteins and Glycoproteins. Toward Sensors for Biomedicine and Glycomics. <i>Chemical Reviews</i> , 2015, 115, 2045-2108.	47.7	273
2	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.	5.2	215
3	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.	7.8	202
4	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.	3.4	114
5	Nanomaterial-based biosensors for detection of prostate specific antigen. <i>Mikrochimica Acta</i> , 2017, 184, 3049-3067.	5.0	94
6	Label-free detection of glycoproteins by the lectin biosensor down to attomolar level using gold nanoparticles. <i>Talanta</i> , 2013, 108, 11-18.	5.5	86
7	Ultrasensitive Impedimetric Lectin Biosensors with Efficient Antifouling Properties Applied in Glycoprofiling of Human Serum Samples. <i>Analytical Chemistry</i> , 2013, 85, 7324-7332.	6.5	80
8	Ultrasensitive detection of influenza viruses with a glycan-based impedimetric biosensor. <i>Biosensors and Bioelectronics</i> , 2016, 79, 644-649.	10.1	76
9	Electrochemical lectin based biosensors as a label-free tool in glycomics. <i>Mikrochimica Acta</i> , 2013, 180, 1-13.	5.0	65
10	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.	2.8	58
11	Prostate-specific antigen glycoprofiling as diagnostic and prognostic biomarker of prostate cancer. <i>Interface Focus</i> , 2019, 9, 20180077.	3.0	53
12	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.	7.8	52
13	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.	2.9	48
14	Nanotechnology in Glycomics: Applications in Diagnostics, Therapy, Imaging, and Separation Processes. <i>Medicinal Research Reviews</i> , 2017, 37, 514-626.	10.5	45
15	Ultrasensitive impedimetric lectin based biosensor for glycoproteins containing sialic acid. <i>Mikrochimica Acta</i> , 2013, 180, 151-159.	5.0	43
16	Simple, Reversible, and Fast Modulation in Superwettability, Gradient, and Adsorption by Counterion Exchange on Self-Assembled Monolayer. <i>Langmuir</i> , 2016, 32, 5491-5499.	3.5	38
17	2D MXenes as Perspective Immobilization Platforms for Design of Electrochemical Nanobiosensors. <i>Electroanalysis</i> , 2019, 31, 1833-1844.	2.9	36
18	Label-free chronopotentiometric glycoprofiling of prostate specific antigen using sialic acid recognizing lectins. <i>Bioelectrochemistry</i> , 2017, 117, 89-94.	4.6	33

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19	Carboxybetaine Modified Interface for Electrochemical Glycoprofiling of Antibodies Isolated from Human Serum. <i>Langmuir</i> , 2015, 31, 7148-7157.	3.5	31
20	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.	2.2	31
21	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.	10.1	29
22	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.	7.8	28
23	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.	1.1	26
24	Glycomics of prostate cancer: updates. <i>Expert Review of Proteomics</i> , 2019, 16, 65-76.	3.0	25
25	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.	1.3	24
26	Exosomes as a Source of Cancer Biomarkers: Advances in Electrochemical Biosensing of Exosomes. <i>ChemElectroChem</i> , 2020, 7, 1956-1973.	3.4	23
27	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.	5.4	22
28	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.	3.5	22
29	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.	3.6	20
30	Challenges for impedimetric affinity sensors targeting protein detection. <i>Current Opinion in Electrochemistry</i> , 2021, 28, 100717.	4.8	18
31	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.	9.4	18
32	Composite films prepared from agricultural by-products. <i>Carbohydrate Polymers</i> , 2017, 156, 77-85.	10.2	16
33	Validating fPSA Glycoprofile as a Prostate Cancer Biomarker to Avoid Unnecessary Biopsies and Re-Biopsies. <i>Cancers</i> , 2020, 12, 2988.	3.7	16
34	Gluconobacter sp. cells for manufacturing of effective electrochemical biosensors and biofuel cells. <i>Chemical Papers</i> , 2015, 69, .	2.2	13
35	Perspectives in Glycomics and Lectin Engineering. <i>Methods in Molecular Biology</i> , 2014, 1200, 421-445.	0.9	11
36	Exosomes from prostate cancer cell lines: Isolation optimisation and characterisation. <i>Biomedicine and Pharmacotherapy</i> , 2022, 151, 113093.	5.6	11

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37	Synthesis and characterization of Au nanoshells with a magnetic core and betaine derivatives. <i>MethodsX</i> , 2019, 6, 1999-2012.	1.6	10
38	Screen-printed conductive carbon layers for dye-sensitized solar cells and electrochemical detection of dopamine. <i>Chemical Papers</i> , 2021, 75, 3817-3829.	2.2	10
39	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.	3.0	10
40	Novel Prostate Cancer Biomarkers: Aetiology, Clinical Performance and Sensing Applications. <i>Chemosensors</i> , 2021, 9, 205.	3.6	10
41	Identification of Whole-Serum Glycobiomarkers for Colorectal Carcinoma Using Reverse-Phase Lectin Microarray. <i>Frontiers in Oncology</i> , 2021, 11, 735338.	2.8	10
42	pH-Switchable Interaction of a Carboxybetaine Ester-Based SAM with DNA and Gold Nanoparticles. <i>Langmuir</i> , 2017, 33, 6657-6666.	3.5	9
43	Analysis of serum glycome by lectin microarrays for prostate cancer patients - a search for aberrant glycoforms. <i>Glycoconjugate Journal</i> , 2020, 37, 703-711.	2.7	9
44	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.	3.0	5
45	Glycan signatures for the identification of cisplatin-resistant testicular cancer cell lines: Specific glycoprofiling of human chorionic gonadotropin (hCG). <i>Cancer Medicine</i> , 2022, , .	2.8	3
46	Interfaces study of all-polysaccharide composite films. <i>Chemical Papers</i> , 2018, 72, 711-718.	2.2	2
47	Carboxybetaine Ester Feature as a Platform for Switchable Surface Properties. , 2016, , .		0
48	Exosomes as a Source of Cancer Biomarkers: Advances in Electrochemical Biosensing of Exosomes. <i>ChemElectroChem</i> , 2020, 7, 1955-1955.	3.4	0
49	Novel Analysis of Glycan Structures: Nanoscale Approach. , 0, , .		0
50	SENSITIVE AMPEROMETRIC NANOBIOSENSOR FOR DETECTION OF SARCOSINE - POTENTIAL PROSTATE CANCER MARKER - IN URINE SAMPLES. , 2021, , .		0