

Michal Masarik

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

125
papers

3,726
citations

32
h-index

57
g-index

136
ext. papers

4,484
ext. citations

5.2
avg, IF

5.31
L-index

#	Paper	IF	Citations
125	Non-psychotropic cannabinoids as inhibitors of TET1 protein.. <i>Bioorganic Chemistry</i> , 2022 , 124, 105793	5.1	1
124	Metabolic tricks of cancer cells.. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2022 , 188705	11.2	5
123	Circulating Tumour Cells (CTCs) in NSCLC: From Prognosis to Therapy Design. <i>Pharmaceutics</i> , 2021 , 13,	6.4	3
122	Supramolecular Coronation of Platinum(II) Complexes by Macrocycles: Structure, Relativistic DFT Calculations, and Biological Effects. <i>Inorganic Chemistry</i> , 2021 , 60, 17911-17925	5.1	0
121	Crosstalk between autophagy inhibitors and endosome-related secretory pathways: a challenge for autophagy-based treatment of solid cancers. <i>Molecular Cancer</i> , 2021 , 20, 140	42.1	5
120	Determination of Renal Distribution of Zinc, Copper, Iron, and Platinum in Mouse Kidney Using LA-ICP-MS. <i>BioMed Research International</i> , 2021 , 2021, 6800294	3	0
119	Oxidized polysaccharides for anticancer-drug delivery: What is the role of structure?. <i>Carbohydrate Polymers</i> , 2021 , 257, 117562	10.3	8
118	Novel Mitochondria-targeted Drugs for Cancer Therapy. <i>Mini-Reviews in Medicinal Chemistry</i> , 2021 , 21, 816-832	3.2	4
117	Metabolic and Amino Acid Alterations of the Tumor Microenvironment. <i>Current Medicinal Chemistry</i> , 2021 , 28, 1270-1289	4.3	5
116	Iron Complexes of Flavonoids-Antioxidant Capacity and Beyond. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	10
115	Comparison of Metal Nanoparticles (Au, Ag, Eu, Cd) Used for Immunoanalysis Using LA-ICP-MS Detection. <i>Molecules</i> , 2021 , 26,	4.8	4
114	PPO-Inhibiting Herbicides and Structurally Relevant Schiff Bases: Evaluation of Inhibitory Activities against Human Protoporphyrinogen Oxidase. <i>Processes</i> , 2021 , 9, 383	2.9	0
113	Cell death in head and neck cancer pathogenesis and treatment. <i>Cell Death and Disease</i> , 2021 , 12, 192	9.8	13
112	Sensitivity to Cisplatin in Head and Neck Cancer Cells Is Significantly Affected by Patient-Derived Cancer-Associated Fibroblasts. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
111	Silicane Derivative Increases Doxorubicin Efficacy in an Ovarian Carcinoma Mouse Model: Fighting Drug Resistance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 31355-31370	9.5	2
110	CBD is not converted to THC in rats: A framework interpretation and discussion. <i>European Neuropsychopharmacology</i> , 2021 , 50, 135-136	1.2	0
109	2D Germanane Derivative as a Vector for Overcoming Doxorubicin Resistance in Cancer Cells. <i>Applied Materials Today</i> , 2020 , 20, 100697	6.6	6

108	Caveolin-1 in oncogenic metabolic symbiosis. <i>International Journal of Cancer</i> , 2020 , 147, 1793-1807	7.5	4
107	Quantitative Phase Dynamics of Cancer Cell Populations Affected by Blue Light. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2597	2.6	3
106	The Importance of Cancer-Associated Fibroblasts in the Pathogenesis of Head and Neck Cancers. <i>Klinicka Onkologie</i> , 2020 , 33, 39-48	2	2
105	Role of mtDNA disturbances in the pathogenesis of Alzheimer's and Parkinson's disease. <i>DNA Repair</i> , 2020 , 91-92, 102871	4.3	9
104	Prognostic Significance of Serum Free Amino Acids in Head and Neck Cancers. <i>Cells</i> , 2019 , 8,	7.9	8
103	Unexpected therapeutic effects of cisplatin. <i>Metallomics</i> , 2019 , 11, 1182-1199	4.5	38
102	Effect of tumor microenvironment on pathogenesis of the head and neck squamous cell carcinoma: a systematic review. <i>Molecular Cancer</i> , 2019 , 18, 63	42.1	139
101	Cisplatin enhances cell stiffness and decreases invasiveness rate in prostate cancer cells by actin accumulation. <i>Scientific Reports</i> , 2019 , 9, 1660	4.9	37
100	One-step detection of human papilloma viral infection using quantum dot-nucleotide interaction specificity. <i>Talanta</i> , 2019 , 205, 120111	6.2	4
99	Cell segmentation methods for label-free contrast microscopy: review and comprehensive comparison. <i>BMC Bioinformatics</i> , 2019 , 20, 360	3.6	56
98	Locked and Loaded: Ruthenium(II)-Capped Cucurbit[5]uril-Based Rotaxanes with Antimetastatic Properties. <i>Inorganic Chemistry</i> , 2019 , 58, 10861-10870	5.1	13
97	Selectively Oxidized Cellulose with Adjustable Molecular Weight for Controlled Release of Platinum Anticancer Drugs. <i>Biomacromolecules</i> , 2019 , 20, 1623-1634	6.9	10
96	Black Phosphorus Cytotoxicity Assessments Pitfalls: Advantages and Disadvantages of Metabolic and Morphological Assays. <i>Chemistry - A European Journal</i> , 2019 , 25, 349-360	4.8	12
95	Transcription factor c-Myb inhibits breast cancer lung metastasis by suppression of tumor cell seeding. <i>Oncogene</i> , 2018 , 37, 1020-1030	9.2	11
94	MicroRNAs in pathophysiology of acute myocardial infarction and cardiogenic shock. <i>Bratislava Medical Journal</i> , 2018 , 119, 341-347	1.7	10
93	Prognostic role of c-Met in head and neck squamous cell cancer tissues: a meta-analysis. <i>Scientific Reports</i> , 2018 , 8, 10370	4.9	14
92	Prostate-Specific Membrane Antigen-Targeted Site-Directed Antibody-Conjugated Apoferritin Nanovehicle Favorably Influences In Vivo Side Effects of Doxorubicin. <i>Scientific Reports</i> , 2018 , 8, 8867	4.9	23
91	Dual-color quantum dots-based simultaneous detection of HPV-HIV co-infection. <i>Sensors and Actuators B: Chemical</i> , 2018 , 258, 295-303	8.5	9

90	Effect of prostate cancer cell line supernatant on functional polarization in macrophages. <i>Bratislava Medical Journal</i> , 2018 , 119, 516-521	1.7	2
89	Amino Acid Profiling of Zinc Resistant Prostate Cancer Cell Lines: Associations With Cancer Progression. <i>Prostate</i> , 2017 , 77, 604-616	4.2	15
88	Levels of heavy metals and their binding protein metallothionein in type 2 diabetics with kidney disease. <i>Journal of Biochemical and Molecular Toxicology</i> , 2017 , 31, e21891	3.4	5
87	Co-delivery of VP-16 and Bcl-2-targeted antisense on PEG-grafted oMWCNTs for synergistic in vitro anti-cancer effects in non-small and small cell lung cancer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 150, 131-140	6	15
86	H2AX/53BP1 foci as a potential pre-treatment marker of HNSCC tumors radiosensitivity □ preliminary methodological study and discussion. <i>European Physical Journal D</i> , 2017 , 71, 1	1.3	1
85	The effect of Benzothiazolone-2 on the expression of Metallothionein-3 in modulating Alzheimer's disease. <i>Brain and Behavior</i> , 2017 , 7, e00799	3.4	11
84	VPA does not enhance platinum binding to DNA in cisplatin-resistant neuroblastoma cancer cells. <i>Tumor Biology</i> , 2017 , 39, 1010428317711656	2.9	
83	Cancer Therapy: Black Phosphorus Nanoparticles Potentiate the Anticancer Effect of Oxaliplatin in Ovarian Cancer Cell Line (Adv. Funct. Mater. 36/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	1
82	Black Phosphorus Nanoparticles Potentiate the Anticancer Effect of Oxaliplatin in Ovarian Cancer Cell Line. <i>Advanced Functional Materials</i> , 2017 , 27, 1701955	15.6	45
81	Comparative study on toxicity of extracellularly biosynthesized and laboratory synthesized CdTe quantum dots. <i>Journal of Biotechnology</i> , 2017 , 241, 193-200	3.7	29
80	Establishment of oral squamous cell carcinoma cell line and magnetic bead-based isolation and characterization of its CD90/CD44 subpopulations. <i>Oncotarget</i> , 2017 , 8, 66254-66269	3.3	6
79	Reduction of Doxorubicin-Induced Cardiotoxicity Using Nanocarriers: A Review. <i>Current Drug Metabolism</i> , 2017 , 18, 237-263	3.5	21
78	Expression profiles of miR-29c, miR-200b and miR-375 in tumour and tumour-adjacent tissues of head and neck cancers. <i>Tumor Biology</i> , 2016 , 37, 12627-12633	2.9	29
77	Prostate tumor attenuation in the nu/nu murine model due to anti-sarcosine antibodies in folate-targeted liposomes. <i>Scientific Reports</i> , 2016 , 6, 33379	4.9	20
76	Evaluation of EGFR as a prognostic and diagnostic marker for head and neck squamous cell carcinoma patients. <i>Oncology Letters</i> , 2016 , 12, 2127-2132	2.6	11
75	Electrochemical and spectral behaviour of miR-34a-5p. <i>Monatshefte Für Chemie</i> , 2016 , 147, 105-110	1.4	1
74	HNSCC Biomarkers Derived from Key Processes of Cancerogenesis 2016 , 115-160		1
73	Electrochemical sensing of etoposide using carbon quantum dot modified glassy carbon electrode. <i>Analyst, The</i> , 2016 , 141, 2665-75	5	42

72	Sarcosine Up-Regulates Expression of Genes Involved in Cell Cycle Progression of Metastatic Models of Prostate Cancer. <i>PLoS ONE</i> , 2016 , 11, e0165830	3.7	35
71	Zinc and Copper Homeostasis in Head and Neck Cancer: Review and Meta-Analysis. <i>Current Medicinal Chemistry</i> , 2016 , 23, 1304-30	4.3	14
70	Influence of Long-Distance Bicycle Riding on Serum/Urinary Biomarkers of Prostate Cancer. <i>International Journal of Molecular Sciences</i> , 2016 , 17, 377	6.3	3
69	Fluorescence Characterization of Gold Modified Liposomes with Antisense N-myc DNA Bound to the Magnetisable Particles with Encapsulated Anticancer Drugs (Doxorubicin, Ellipticine and Etoposide). <i>Sensors</i> , 2016 , 16, 290	3.8	10
68	Relation of exposure to amino acids involved in sarcosine metabolic pathway on behavior of non-tumor and malignant prostatic cell lines. <i>Prostate</i> , 2016 , 76, 679-90	4.2	11
67	Effect of HPV on tumor expression levels of the most commonly used markers in HNSCC. <i>Tumor Biology</i> , 2016 , 37, 7193-201	2.9	2
66	Novel biophysical determination of miRNAs related to prostate and head and neck cancers. <i>European Biophysics Journal</i> , 2015 , 44, 131-8	1.9	7
65	Prognostic significance of the tumour-adjacent tissue in head and neck cancers. <i>Tumor Biology</i> , 2015 , 36, 9929-39	2.9	13
64	Virtual screening, ADMET profiling, molecular docking and dynamics approaches to search for potent selective natural molecules based inhibitors against metallothionein-III to study Alzheimer's disease. <i>Methods</i> , 2015 , 83, 105-10	4.6	28
63	Long-Term Haloperidol Treatment Prolongs QT Interval and Increases Expression of Sigma 1 and IP3 Receptors in Guinea Pig Hearts. <i>Tohoku Journal of Experimental Medicine</i> , 2015 , 236, 199-207	2.4	15
62	3D-printed biosensor with poly(dimethylsiloxane) reservoir for magnetic separation and quantum dots-based immunolabeling of metallothionein. <i>Electrophoresis</i> , 2015 , 36, 1256-64	3.6	21
61	Label-free bead-based metallothionein electrochemical immunosensor. <i>Electrophoresis</i> , 2015 , 36, 1894-904	3.0	6
60	Oxidative Stress Resistance in Metastatic Prostate Cancer: Renewal by Self-Eating. <i>PLoS ONE</i> , 2015 , 10, e0145016	3.7	17
59	Paramagnetic nanoparticles as a platform for FRET-based sarcosine picomolar detection. <i>Scientific Reports</i> , 2015 , 5, 8868	4.9	39
58	Influence of microbiome species in hard-to-heal wounds on disease severity and treatment duration. <i>Brazilian Journal of Infectious Diseases</i> , 2015 , 19, 604-13	2.8	9
57	Molecular response of 4T1-induced mouse mammary tumours and healthy tissues to zinc treatment. <i>International Journal of Oncology</i> , 2015 , 46, 1810-8	4.4	8
56	Label-free and amplification-free miR-124 detection in human cells. <i>International Journal of Oncology</i> , 2015 , 46, 871-7	4.4	5
55	17 β -estradiol-containing liposomes as a novel delivery system for the antisense therapy of ER-positive breast cancer: An in vitro study on the MCF-7 cell line. <i>Oncology Reports</i> , 2015 , 33, 921-9	3.5	7

54	Multimodal holographic microscopy: distinction between apoptosis and oncosis. <i>PLoS ONE</i> , 2015 , 10, e0121674	3-7	36
53	Metallothionein polymorphisms in pathological processes. <i>Metallomics</i> , 2014 , 6, 55-68	4-5	74
52	Phytotoxic action of naphthoquinone juglone demonstrated on lettuce seedling roots. <i>Plant Physiology and Biochemistry</i> , 2014 , 84, 78-86	5-4	31
51	Utilization of paramagnetic microparticles for automated isolation of free circulating mRNA as a new tool in prostate cancer diagnostics. <i>Electrophoresis</i> , 2014 , 35, 306-15	3-6	1
50	Fe ₂ O ₃ Nanoparticles Covered with Glutathione-Modified Quantum Dots as a Fluorescent Nanotransporter. <i>Chromatographia</i> , 2014 , 77, 1415-1423	2-1	7
49	Clinical significance of head and neck squamous cell cancer biomarkers. <i>Oral Oncology</i> , 2014 , 50, 168-77	4-4	75
48	KRAS NF- κ B is involved in the development of zinc resistance and reduced curability in prostate cancer. <i>Metallomics</i> , 2014 , 6, 1240-53	4-5	7
47	Cisplatin-resistant prostate cancer model: Differences in antioxidant system, apoptosis and cell cycle. <i>International Journal of Oncology</i> , 2014 , 44, 923-33	4-4	49
46	Determination of common urine substances as an assay for improving prostate carcinoma diagnostics. <i>Oncology Reports</i> , 2014 , 31, 1846-54	3-5	26
45	Metallothionein - immunohistochemical cancer biomarker: a meta-analysis. <i>PLoS ONE</i> , 2014 , 9, e85346	3-7	49
44	Effect of ampicillin, streptomycin, penicillin and tetracycline on metal resistant and non-resistant <i>Staphylococcus aureus</i> . <i>International Journal of Environmental Research and Public Health</i> , 2014 , 11, 3233-55	4-6	33
43	Modulation of induced cytotoxicity of doxorubicin by using apoferritin and liposomal cages. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 22960-77	6-3	22
42	Modern bioanalysis of proteins by electrophoretic techniques. <i>Methods in Molecular Biology</i> , 2014 , 1129, 381-96	1-4	4
41	Serum and tissue zinc in epithelial malignancies: a meta-analysis. <i>PLoS ONE</i> , 2014 , 9, e99790	3-7	62
40	The role of metallothionein in oxidative stress. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 6044-56	4-5	476
39	Determination of oxidative stress and activities of antioxidant enzymes in guinea pigs treated with haloperidol. <i>Experimental and Therapeutic Medicine</i> , 2013 , 5, 479-484	2-1	11
38	Microfluidic chip coupled with modified paramagnetic particles for sarcosine isolation in urine. <i>Electrophoresis</i> , 2013 , 34, 2639-47	3-6	22
37	Relevance of infection with human papillomavirus: the role of the p53 tumor suppressor protein and E6/E7 zinc finger proteins (Review). <i>International Journal of Oncology</i> , 2013 , 43, 1754-62	4-4	49

36	Effect of sarcosine on antioxidant parameters and metallothionein content in the PC-3 prostate cancer cell line. <i>Oncology Reports</i> , 2013 , 29, 2459-66	3.5	5
35	Sarcosine as a potential prostate cancer biomarker--a review. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 13893-908	6.3	76
34	Haloperidol cytotoxicity and its relation to oxidative stress. <i>Mini-Reviews in Medicinal Chemistry</i> , 2013 , 13, 1993-8	3.2	32
33	From Na ⁺ /K ⁺ -ATPase and cardiac glycosides to cytotoxicity and cancer treatment. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2013 , 13, 1069-87	2.2	48
32	c-Myb regulates matrix metalloproteinases 1/9, and cathepsin D: implications for matrix-dependent breast cancer cell invasion and metastasis. <i>Molecular Cancer</i> , 2012 , 11, 15	42.1	48
31	Monitoring of the prostate tumour cells redox state and real-time proliferation by novel biophysical techniques and fluorescent staining. <i>Integrative Biology (United Kingdom)</i> , 2012 , 4, 672-84	3.7	20
30	Mammalian metallothioneins: properties and functions. <i>Metallomics</i> , 2012 , 4, 739-50	4.5	166
29	Evaluation of alpha-methylacyl-CoA racemase, metallothionein and prostate specific antigen as prostate cancer prognostic markers. <i>Neoplasma</i> , 2012 , 59, 191-201	3.3	18
28	Immunoextraction of zinc proteins from human plasma using chicken yolk antibodies immobilized onto paramagnetic particles and their electrophoretic analysis. <i>Electrophoresis</i> , 2012 , 33, 1824-32	3.6	14
27	Caveolin-1 as a potential high-risk prostate cancer biomarker. <i>Oncology Reports</i> , 2012 , 27, 831-41	3.5	30
26	Effect of zinc(II) ions on the expression of pro- and anti-apoptotic factors in high-grade prostate carcinoma cells. <i>Oncology Reports</i> , 2012 , 28, 806-14	3.5	14
25	Redox status expressed as GSH:GSSG ratio as a marker for oxidative stress in paediatric tumour patients. <i>Oncology Letters</i> , 2012 , 4, 1247-1253	2.6	317
24	MicroRNAs and zinc metabolism-related gene expression in prostate cancer cell lines treated with zinc(II) ions. <i>International Journal of Oncology</i> , 2012 , 41, 2237-44	4.4	4
23	Nanotechnologies for society. New designs and applications of nanosensors and nanobiosensors in medicine and environmental analysis. <i>International Journal of Nanotechnology</i> , 2012 , 9, 746	1.5	13
22	Assays for determination of matrix metalloproteinases and their activity. <i>TrAC - Trends in Analytical Chemistry</i> , 2011 , 30, 1819-1832	14.6	27
21	Electrophoretic fingerprint metallothionein analysis as a potential prostate cancer biomarker. <i>Electrophoresis</i> , 2011 , 32, 1952-61	3.6	22
20	Isolation of metallothionein from cells derived from aggressive form of high-grade prostate carcinoma using paramagnetic antibody-modified microbeads off-line coupled with electrochemical and electrophoretic analysis. <i>Electrophoresis</i> , 2011 , 32, 3576-88	3.6	10
19	Microfluidic tool based on the antibody-modified paramagnetic particles for detection of 8-hydroxy-2Sdeoxyguanosine in urine of prostate cancer patients. <i>Electrophoresis</i> , 2011 , 32, 3207-20	3.6	19

18	Insight to physiology and pathology of zinc(II) ions and their actions in breast and prostate carcinoma. <i>Current Medicinal Chemistry</i> , 2011 , 18, 5041-51	4.3	55
17	Gene Expression of the Endothelin-1 in Vasospastic Flap Pedicle – An Experimental Study on a Porcine Model. <i>Acta Veterinaria Brno</i> , 2010 , 79, 453-457	0.8	
16	Matrix metalloproteinases. <i>Current Medicinal Chemistry</i> , 2010 , 17, 3751-68	4.3	160
15	Avidin and Plant Biotechnology to Control Pests. <i>Sustainable Agriculture Reviews</i> , 2010 , 1-21	1.3	4
14	Effects of redox conditions and zinc(II) ions on metallothionein aggregation revealed by chip capillary electrophoresis. <i>Journal of Chromatography A</i> , 2010 , 1217, 7966-71	4.5	21
13	Serum metallothionein in newly diagnosed patients with childhood solid tumours.. <i>Acta Biochimica Polonica</i> , 2010 , 57,	2	20
12	Study of Interactions between Metallothionein and Cisplatin by using Differential Pulse Voltammetry Brdická reaction and Quartz Crystal Microbalance. <i>Sensors</i> , 2009 , 9, 1355-69	3.8	15
11	Changes in interfacial properties of alpha-synuclein preceding its aggregation. <i>Analyst, The</i> , 2008 , 133, 76-84	5	70
10	Chip-Based CE for Avidin Determination in Transgenic Tobacco and Its Comparison with Square-Wave Voltammetry and Standard Gel Electrophoresis. <i>Chromatographia</i> , 2008 , 67, 75-81	2.1	7
9	Zeptomole Detection of Streptavidin Using Carbon Paste Electrode and Square-Wave Voltammetry. <i>Electroanalysis</i> , 2007 , 19, 1177-1182	3	26
8	Label-free voltammetric detection of single-nucleotide mismatches recognized by the protein MutS. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 388, 259-70	4.4	37
7	Spectrometric and Voltammetric Analysis of Urease [Nickel Nanoelectrode as an Electrochemical Sensor. <i>Sensors</i> , 2007 , 7, 1238-1255	3.8	37
6	An analysis of avidin, biotin and their interaction at attomole levels by voltammetric and chromatographic techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 381, 1167-78	4.4	45
5	Sensitive Electrochemical Detection of Native and Aggregated α -Synuclein Protein Involved in Parkinson's Disease. <i>Electroanalysis</i> , 2004 , 16, 1172-1181	3	76
4	Sensitive electrochemical determination of unlabeled MutS protein and detection of point mutations in DNA. <i>Analytical Chemistry</i> , 2004 , 76, 5930-6	7.8	85
3	Two-Surface Strategy in Electrochemical DNA Hybridization Assays: Detection of Osmium-Labeled Target DNA at Carbon Electrodes. <i>Electroanalysis</i> , 2003 , 15, 431-440	3	74
2	Application of avidin-biotin technology and adsorptive transfer stripping square-wave voltammetry for detection of DNA hybridization and avidin in transgenic avidin maize. <i>Analytical Chemistry</i> , 2003 , 75, 2663-9	7.8	99
1	Detection and characterization of apoptotic and necrotic cell death by time-lapse quantitative phase image analysis		2

