Jaromir Gumulec

List of Publications by Year
in descending order

76	3,292	186265 28	155660 55
papers	citations	h-index	g-index

83	83	83	6205
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cancer cell viscoelasticity measurement by quantitative phase and flow stress induction. Biophysical Journal, 2022, 121, 1632-1642.	0.5	4
2	Rilzabrutinib, an Oral BTK Inhibitor, in Immune Thrombocytopenia. New England Journal of Medicine, 2022, 386, 1421-1431.	27.0	52
3	mRNA Subtype of Cancer-Associated Fibroblasts Significantly Affects Key Characteristics of Head and Neck Cancer Cells. Cancers, 2022, 14, 2286.	3.7	4
4	Sensitivity to Cisplatin in Head and Neck Cancer Cells Is Significantly Affected by Patient-Derived Cancer-Associated Fibroblasts. International Journal of Molecular Sciences, 2021, 22, 1912.	4.1	14
5	Metabolic and Amino Acid Alterations of the Tumor Microenvironment. Current Medicinal Chemistry, 2021, 28, 1270-1289.	2.4	17
6	Self-supervised pretraining for transferable quantitative phase image cell segmentation. Biomedical Optics Express, 2021, 12, 6514.	2.9	3
7	DeepFoci: Deep learning-based algorithm for fast automatic analysis of DNA double-strand break ionizing radiation-induced foci. Computational and Structural Biotechnology Journal, 2021, 19, 6465-6480.	4.1	10
8	Caveolinâ€1 in oncogenic metabolic symbiosis. International Journal of Cancer, 2020, 147, 1793-1807.	5.1	13
9	Mechanical Properties of cellulose fibers measured by Brillouin spectroscopy. Cellulose, 2020, 27, 4209-4220.	4.9	28
10	The Quantitative-Phase Dynamics of Apoptosis and Lytic Cell Death. Scientific Reports, 2020, 10, 1566.	3.3	60
11	Quantitative Phase Dynamics of Cancer Cell Populations Affected by Blue Light. Applied Sciences (Switzerland), 2020, 10, 2597.	2.5	5
12	HPV, protein p16 and squamous cell carcinoma of the oral cavity. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2020, 164, 292-299.	0.6	9
13	Label-Free Nuclear Staining Reconstruction in Quantitative Phase Images Using Deep Learning. IFMBE Proceedings, 2019, , 239-242.	0.3	1
14	Cell segmentation methods for label-free contrast microscopy: review and comprehensive comparison. BMC Bioinformatics, 2019, 20, 360.	2.6	137
15	Prognostic Significance of Serum Free Amino Acids in Head and Neck Cancers. Cells, 2019, 8, 428.	4.1	12
16	Unexpected therapeutic effects of cisplatin. Metallomics, 2019, 11, 1182-1199.	2.4	67
17	Cisplatin enhances cell stiffness and decreases invasiveness rate in prostate cancer cells by actin accumulation. Scientific Reports, 2019, 9, 1660.	3.3	70
18	Postâ€treatment urinary sarcosine as a predictor of recurrent relapses in patients with prostate cancer. Cancer Medicine, 2018, 7, 5411-5419.	2.8	4

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19	Prognostic role of c-Met in head and neck squamous cell cancer tissues: a meta-analysis. Scientific Reports, 2018, 8, 10370.	3.3	18
20	Amino Acid Profiling of Zinc Resistant Prostate Cancer Cell Lines: Associations With Cancer Progression. Prostate, 2017, 77, 604-616.	2.3	19
21	Levels of heavy metals and their binding protein metallothionein in type 2 diabetics with kidney disease. Journal of Biochemical and Molecular Toxicology, 2017, 31, e21891.	3.0	11
22	Î³H2AX/53BP1 foci as a potential pre-treatment marker of HNSCC tumors radiosensitivity â€“ preliminary methodological study and discussion. European Physical Journal D, 2017, 71, 1.	1.3	3
23	The effect of Benzothiazoloneâ€2 on the expression of Metallothioneinâ€3 in modulating Alzheimer's disease. Brain and Behavior, 2017, 7, e00799.	2.2	11
24	VPA does not enhance platinum binding to DNA in cisplatin-resistant neuroblastoma cancer cells. Tumor Biology, 2017, 39, 101042831771165.	1.8	0
25	Platinum nanoparticles induce damage to DNA and inhibit DNA replication. PLoS ONE, 2017, 12, e0180798.	2.5	60
26	Establishment of oral squamous cell carcinoma cell line and magnetic bead-based isolation and characterization of its CD90/CD44 subpopulations. Oncotarget, 2017, 8, 66254-66269.	1.8	11
27	Reduction of Doxorubicin-Induced Cardiotoxicity Using Nanocarriers: A Review. Current Drug Metabolism, 2017, 18, 237-263.	1.2	35
28	Influence of Long-Distance Bicycle Riding on Serum/Urinary Biomarkers of Prostate Cancer. International Journal of Molecular Sciences, 2016, 17, 377.	4.1	6
29	Relation of exposure to amino acids involved in sarcosine metabolic pathway on behavior of non-tumor and malignant prostatic cell lines. Prostate, 2016, 76, 679-690.	2.3	16
30	Effect of HPV on tumor expression levels of the most commonly used markers in HNSCC. Tumor Biology, 2016, 37, 7193-7201.	1.8	3
31	Expression profiles of miR-29c, miR-200b and miR-375 in tumour and tumour-adjacent tissues of head and neck cancers. Tumor Biology, 2016, 37, 12627-12633.	1.8	42
32	Evaluation of EGFR as a prognostic and diagnostic marker for head and neck squamous cell carcinoma patients. Oncology Letters, 2016, 12, 2127-2132.	1.8	13
33	HNSCC Biomarkers Derived from Key Processes of Cancerogenesis. , 2016, , 115-160.		1
34	All-in-one detector of circulating mRNA based on a smartphone. , 2016, , .		0
35	Zinc and Copper Homeostasis in Head and Neck Cancer: Review and Meta-Analysis. Current Medicinal Chemistry, 2016, 23, 1304-1330.	2.4	47
36	Oxidative Stress Resistance in Metastatic Prostate Cancer: Renewal by Self-Eating. PLoS ONE, 2015, 10, e0145016.	2.5	24

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37	Influence of microbiome species in hard-to-heal wounds on disease severity and treatment duration. Brazilian Journal of Infectious Diseases, 2015, 19, 604-613.	0.6	11
38	Molecular response of 4T1-induced mouse mammary tumours and healthy tissues to zinc treatment. International Journal of Oncology, 2015, 46, 1810-1818.	3.3	12
39	17Î²-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. Oncology Reports, 2015, 33, 921-929.	2.6	15
40	Novel biophysical determination of miRNAs related to prostate and head and neck cancers. European Biophysics Journal, 2015, 44, 131-138.	2.2	9
41	Study of Linkage between Glutathione Pathway and the Antibiotic Resistance of Escherichia coli from Patientsâ€™ Swabs. International Journal of Molecular Sciences, 2015, 16, 7210-7229.	4.1	8
42	Prognostic significance of the tumour-adjacent tissue in head and neck cancers. Tumor Biology, 2015, 36, 9929-9939.	1.8	16
43	Structural effects and nanoparticle size are essential for quantum dotsâ€“metallothionein complex formation. Colloids and Surfaces B: Biointerfaces, 2015, 134, 262-272.	5.0	21
44	Simultaneous Automatic Electrochemical Detection of Zinc, Cadmium, Copper and Lead Ions in Environmental Samples Using a Thin-Film Mercury Electrode and an Artificial Neural Network. Sensors, 2015, 15, 592-610.	3.8	51
45	Multimodal Holographic Microscopy: Distinction between Apoptosis and Oncosis. PLoS ONE, 2015, 10, e0121674.	2.5	59
46	Metallothionein â€“ Immunohistochemical Cancer Biomarker: A Meta-Analysis. PLoS ONE, 2014, 9, e85346.	2.5	61
47	Effect of Ampicillin, Streptomycin, Penicillin and Tetracycline on Metal Resistant and Non-Resistant Staphylococcus aureus. International Journal of Environmental Research and Public Health, 2014, 11, 3233-3255.	2.6	45
48	Modulation of Induced Cytotoxicity of Doxorubicin by Using Apoferritin and Liposomal Cages. International Journal of Molecular Sciences, 2014, 15, 22960-22977.	4.1	23
49	Comparison of the effects of silver phosphate and selenium nanoparticles onStaphylococcus aureusgrowth reveals potential for selenium particles to prevent infection. FEMS Microbiology Letters, 2014, 351, 195-201.	1.8	69
50	Metallothionein polymorphisms in pathological processes. Metallomics, 2014, 6, 55-68.	2.4	86
51	Utilization of paramagnetic microparticles for automated isolation of free circulating mRNA as a new tool in prostate cancer diagnostics. Electrophoresis, 2014, 35, 306-315.	2.4	1
52	Clinical significance of head and neck squamous cell cancer biomarkers. Oral Oncology, 2014, 50, 168-177.	1.5	88
53	KRAS NF-ÎºB is involved in the development of zinc resistance and reduced curability in prostate cancer. Metallomics, 2014, 6, 1240.	2.4	11
54	Cisplatin-resistant prostate cancer model: Differences in antioxidant system, apoptosis and cell cycle. International Journal of Oncology, 2014, 44, 923-933.	3.3	58

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55	Determination of common urine substances as an assay for improving prostate carcinoma diagnostics. Oncology Reports, 2014, 31, 1846-1854.	2.6	35
56	Serum and Tissue Zinc in Epithelial Malignancies: A Meta-Analysis. PLoS ONE, 2014, 9, e99790.	2.5	82
57	A Novel Insight into the Cardiotoxicity of Antineoplastic Drug Doxorubicin. International Journal of Molecular Sciences, 2013, 14, 21629-21646.	4.1	29
58	The Role of Metallothionein in Oxidative Stress. International Journal of Molecular Sciences, 2013, 14, 6044-6066.	4.1	632
59	Determination of oxidative stress and activities of antioxidant enzymes in guinea pigs treated with haloperidol. Experimental and Therapeutic Medicine, 2013, 5, 479-484.	1.8	19
60	Relevance of infection with human papillomavirus: The role of the p53 tumor suppressor protein and E6/E7 zinc finger proteins. International Journal of Oncology, 2013, 43, 1754-1762.	3.3	57
61	Complexes of Silver(I) Ions and Silver Phosphate Nanoparticles with Hyaluronic Acid and/or Chitosan as Promising Antimicrobial Agents for Vascular Grafts. International Journal of Molecular Sciences, 2013, 14, 13592-13614.	4.1	62
62	Effect of sarcosine on antioxidant parameters and metallothionein content in the PC-3 prostate cancer cell line. Oncology Reports, 2013, 29, 2459-2466.	2.6	5
63	Sarcosine as a Potential Prostate Cancer Biomarkerâ€"A Review. International Journal of Molecular Sciences, 2013, 14, 13893-13908.	4.1	93
64	Haloperidol Cytotoxicity and Its Relation to Oxidative Stress. Mini-Reviews in Medicinal Chemistry, 2013, 13, 1993-1998.	2.4	39
65	Caveolin-1 as a potential high-risk prostate cancer biomarker. Oncology Reports, 2012, 27, 831-41.	2.6	36
66	Effect of zinc(II) ions on the expression of pro- and anti-apoptotic factors in high-grade prostate carcinoma cells. Oncology Reports, 2012, 28, 806-814.	2.6	14
67	Redox status expressed as GSH:GSSG ratio as a marker for oxidative stress in paediatric tumour patients. Oncology Letters, 2012, 4, 1247-1253.	1.8	483
68	MicroRNAs and zinc metabolism-related gene expression in prostate cancer cell lines treated with zinc(II) ions. International Journal of Oncology, 2012, 41, 2237-2244.	3.3	8
69	Monitoring of the prostate tumour cells redox state and real-time proliferation by novel biophysical techniques and fluorescent staining. Integrative Biology (United Kingdom), 2012, 4, 672-684.	1.3	25
70	Evaluation ofalpha-methylacyl-CoA racemase, metallothionein and prostate specific antigen as prostate cancer prognostic markers. Neoplasma, 2012, 59, 191-201.	1.6	27
71	Electrophoretic fingerprint metallothionein analysis as a potential prostate cancer biomarker. Electrophoresis, 2011, 32, 1952-1961.	2.4	39
72	Isolation of metallothionein from cells derived from aggressive form of highâ€grade prostate carcinoma using paramagnetic antibodyâ€modified microbeads offâ€line coupled with electrochemical and electrophoretic analysis. Electrophoresis, 2011, 32, 3576-3588.	2.4	20

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73	Microfluidic tool based on the antibodyâ€modified paramagnetic particles for detection of 8â€hydroxyâ€2â€²â€deoxyguanosine in urine of prostate cancer patients. Electrophoresis, 2011, 32, 3207-3220.	2.4	26
74	Insight to Physiology and Pathology of Zinc(II) Ions and Their Actions in Breast and Prostate Carcinoma. Current Medicinal Chemistry, 2011, 18, 5041-5051.	2.4	67
75	Abstract C7: Analysis of high-risk prostate cancer markers at RNA and protein level.. , 2011, , .		0
76	Low Molecular Weight Heparin in Sufficient Dose of â‰¥70 IU/kg as an Effective and Safe Thromboprophylaxis in Patients with Newly Diagnosed Multiple Myeloma during Conventional VAD Induction Therapy.. Blood, 2007, 110, 2732-2732.	1.4	0