

# Michal Marczyk

## 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.

48  
papers

485  
citations

12  
h-index

20  
g-index

55  
ext. papers

679  
ext. citations

4.2  
avg, IF

3.8  
L-index

#	Paper	IF	Citations
48	Abstract P5-17-01: Targeting Acetyl-CoA carboxylase in pre-clinical breast cancer models. <i>Cancer Research</i> , <b>2022</b> , 82, P5-17-01-P5-17-01	10.1	
47	Investigating Sources of Zeros in 10 <sup>5</sup> Single-Cell RNAseq Data. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 71-80	0.9	
46	Finding Significantly Enriched Cells in Single-Cell RNA Sequencing by Single-Sample Approaches. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 33-44	0.9	
45	Treatment scheduling effects on the evolution of drug resistance in heterogeneous cancer cell populations. <i>Npj Breast Cancer</i> , <b>2021</b> , 7, 60	7.8	4
44	Diverse immune response of DNA damage repair-deficient tumors. <i>Cell Reports Medicine</i> , <b>2021</b> , 2, 1002768	6.8	3
43	Targeted RNAseq assay incorporating unique molecular identifiers for improved quantification of gene expression signatures and transcribed mutation fraction in fixed tumor samples. <i>BMC Cancer</i> , <b>2021</b> , 21, 114	4.8	1
42	Neoadjuvant durvalumab plus weekly nab-paclitaxel and dose-dense doxorubicin/cyclophosphamide in triple-negative breast cancer. <i>Npj Breast Cancer</i> , <b>2021</b> , 7, 9	7.8	10
41	Analysis of the Applicability of microRNAs in Peripheral Blood Leukocytes as Biomarkers of Sensitivity and Exposure to Fractionated Radiotherapy towards Breast Cancer. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1
40	Importance of SNP Dependency Correction and Association Integration for Gene Set Analysis in Genome-Wide Association Studies.. <i>Frontiers in Genetics</i> , <b>2021</b> , 12, 767358	4.5	1
39	Germline variant burden in cancer genes correlates with age at diagnosis and somatic mutation burden. <i>Nature Communications</i> , <b>2020</b> , 11, 2438	17.4	17
38	Immunological Differences Between Immune-Rich Estrogen Receptor-Positive and Immune-Rich Triple-Negative Breast Cancers. <i>JCO Precision Oncology</i> , <b>2020</b> , 4,	3.6	11
37	Technical Validity of a Customized Assay of Sensitivity to Endocrine Therapy Using Sections from Fixed Breast Cancer Tissue. <i>Clinical Chemistry</i> , <b>2020</b> , 66, 934-945	5.5	3
36	Multi-Omics Investigation of Innate Navitoclax Resistance in Triple-Negative Breast Cancer Cells. <i>Cancers</i> , <b>2020</b> , 12,	6.6	7
35	GaMRed-Adaptive Filtering of High-Throughput Biological Data. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2020</b> , 17, 149-157	3	4
34	Molecular Profiling for Predictors of Radiosensitivity in Patients with Breast or Head-and-Neck Cancer. <i>Cancers</i> , <b>2020</b> , 12,	6.6	9
33	BatchI: Batch effect Identification in high-throughput screening data using a dynamic programming algorithm. <i>Bioinformatics</i> , <b>2019</b> , 35, 1885-1892	7.2	10
32	Lung cancer survival and comorbidities in lung cancer screening participants of the Gdańsk screening cohort. <i>European Journal of Public Health</i> , <b>2019</b> , 29, 1114-1117	2.1	2

31	Defining Risk of Late Recurrence in Early-Stage Estrogen Receptor-Positive Breast Cancer: Clinical Versus Molecular Tools. <i>Journal of Clinical Oncology</i> , <b>2019</b> , 37, 1365-1369	2.2	9
30	Gene set enrichment for reproducible science: comparison of CERNO and eight other algorithms. <i>Bioinformatics</i> , <b>2019</b> , 35, 5146-5154	7.2	45
29	The impact of RNA extraction method on accurate RNA sequencing from formalin-fixed paraffin-embedded tissues. <i>BMC Cancer</i> , <b>2019</b> , 19, 1189	4.8	14
28	Initializing the EM Algorithm for Univariate Gaussian, Multi-Component, Heteroscedastic Mixture Models by Dynamic Programming Partitions. <i>International Journal of Computational Methods</i> , <b>2018</b> , 15, 1850012	1.1	5
27	Mixture Modeling of 2-D Gel Electrophoresis Spots Enhances the Performance of Spot Detection. <i>IEEE Transactions on Nanobioscience</i> , <b>2017</b> , 16, 91-99	3.4	3
26	Stage I non-small-cell lung cancer: long-term results of lobectomy versus sublobar resection from the Polish National Lung Cancer Registry. <i>European Journal of Cardio-thoracic Surgery</i> , <b>2017</b> , 52, 363-369 <sup>3</sup>		43
25	Serum lipid profile discriminates patients with early lung cancer from healthy controls. <i>Lung Cancer</i> , <b>2017</b> , 112, 69-74	5.9	33
24	Ranking metrics in gene set enrichment analysis: do they matter?. <i>BMC Bioinformatics</i> , <b>2017</b> , 18, 256	3.6	31
23	Improving peak detection by Gaussian mixture modeling of mass spectral signal <b>2017</b> ,		1
22	Reproducibility of Finding Enriched Gene Sets in Biological Data Analysis. <i>Advances in Intelligent Systems and Computing</i> , <b>2017</b> , 146-154	0.4	1
21	Processing 2D Gel Electrophoresis Images for Efficient Gaussian Mixture Modeling. <i>Advances in Intelligent Systems and Computing</i> , <b>2017</b> , 35-42	0.4	
20	Sensitivity, Specificity and Prioritization of Gene Set Analysis When Applying Different Ranking Metrics. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 61-69	0.4	1
19	Improved Detection of 2D Gel Electrophoresis Spots by Using Gaussian Mixture Model. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 284-294	0.9	1
18	Influence of genetic background and oxidative stress response on risk of mandibular osteoradionecrosis after radiotherapy of head and neck cancer. <i>Head and Neck</i> , <b>2016</b> , 38, 387-93	4.2	12
17	Serum mass profile signature as a biomarker of early lung cancer. <i>Lung Cancer</i> , <b>2016</b> , 99, 46-52	5.9	20
16	Prognostic value of 5-microRNA based signature in T2-T3N0 colon cancer. <i>Clinical and Experimental Metastasis</i> , <b>2016</b> , 33, 765-773	4.7	41
15	Modeling of Imaging Mass Spectrometry Data and Testing by Permutation for Biomarkers Discovery in Tissues. <i>Procedia Computer Science</i> , <b>2015</b> , 51, 693-702	1.6	2
14	Signal Partitioning Algorithm for Highly Efficient Gaussian Mixture Modeling in Mass Spectrometry. <i>PLoS ONE</i> , <b>2015</b> , 10, e0134256	3.7	28

13	Least Squares Estimators of Peptide Species Concentrations Based on Gaussian Mixture Decompositions of Protein Mass Spectra. <i>Springer Proceedings in Mathematics and Statistics</i> , <b>2015</b> , 425-432	0.2	32
12	Mixture Model Based Efficient Method for Magnetic Resonance Spectra Quantification. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 406-417	0.9	
11	Radiation-induced changes in levels of selected proteins in peripheral blood serum of breast cancer patients as a potential triage biodosimeter for large-scale radiological emergencies. <i>Health Physics</i> , <b>2014</b> , 107, 555-63	2.3	9
10	Radiation-induced changes in serum lipidome of head and neck cancer patients. <i>International Journal of Molecular Sciences</i> , <b>2014</b> , 15, 6609-24	6.3	21
9	Comparison of Algorithms for Profile-Based Alignment of Low Resolution MALDI-ToF Spectra. <i>Advances in Intelligent Systems and Computing</i> , <b>2014</b> , 193-201	0.4	2
8	An Efficient Algorithm for Microarray Probes Re-annotation. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 201-218	0.9	
7	Adaptive filtering of microarray gene expression data based on Gaussian mixture decomposition. <i>BMC Bioinformatics</i> , <b>2013</b> , 14, 101	3.6	32
6	Sources of high variance between probe signals in Affymetrix short oligonucleotide microarrays. <i>Sensors</i> , <b>2013</b> , 14, 532-48	3.8	9
5	Comparison of peptide cancer signatures identified by mass spectrometry in serum of patients with head and neck, lung and colorectal cancers: association with tumor progression. <i>International Journal of Oncology</i> , <b>2012</b> , 40, 148-56	4.4	9
4	Radiation-related changes in serum proteome profiles detected by mass spectrometry in blood of patients treated with radiotherapy due to larynx cancer. <i>Journal of Radiation Research</i> , <b>2011</b> , 52, 575-81	2.4	16
3	Association between plasma proteome profiles analysed by mass spectrometry, a lymphocyte-based DNA-break repair assay and radiotherapy-induced acute mucosal reaction in head and neck cancer patients. <i>International Journal of Radiation Biology</i> , <b>2011</b> , 87, 711-9	2.9	9
2	Affymetrix Chip Definition Files Construction Based on Custom Probe Set Annotation Database. <i>Studies in Computational Intelligence</i> , <b>2011</b> , 135-144	0.8	3
1	Efficient Algorithm for Microarray Probes Re-annotation. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 281-289		1