

# Michael A Langston

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/452422/publications.pdf>

Version: 2024-02-01

75  
papers

2,543  
citations

236925

25  
h-index

206112

48  
g-index

78  
all docs

78  
docs citations

78  
times ranked

3315  
citing authors

#	ARTICLE	IF	CITATIONS
1	Detecting Differential and Correlated Protein Expression in Label-Free Shotgun Proteomics. <i>Journal of Proteome Research</i> , 2006, 5, 2909-2918.	3.7	361
2	The Public Health Exposome: A Population-Based, Exposure Science Approach to Health Disparities Research. <i>International Journal of Environmental Research and Public Health</i> , 2014, 11, 12866-12895.	2.6	137
3	On finding bicliques in bipartite graphs: a novel algorithm and its application to the integration of diverse biological data types. <i>BMC Bioinformatics</i> , 2014, 15, 110.	2.6	131
4	Cross-Species Integrative Functional Genomics in GeneWeaver Reveals a Role for Pafah1b1 in Altered Response to Alcohol. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 1.	2.0	123
5	GeneWeaver: a web-based system for integrative functional genomics. <i>Nucleic Acids Research</i> , 2012, 40, D1067-D1076.	14.5	112
6	Genetic Dissection of Acute Ethanol Responsive Gene Networks in Prefrontal Cortex: Functional and Mechanistic Implications. <i>PLoS ONE</i> , 2012, 7, e33575.	2.5	109
7	Crown Structures for Vertex Cover Kernelization. <i>Theory of Computing Systems</i> , 2007, 41, 411-430.	1.1	97
8	Extracting Gene Networks for Low-Dose Radiation Using Graph Theoretical Algorithms. <i>PLoS Computational Biology</i> , 2006, 2, e89.	3.2	86
9	Nonconstructive advances in polynomial-time complexity. <i>Information Processing Letters</i> , 1987, 26, 157-162.	0.6	72
10	Threshold selection in gene co-expression networks using spectral graph theory techniques. <i>BMC Bioinformatics</i> , 2009, 10, S4.	2.6	71
11	DNA Methylation Changes Separate Allergic Patients from Healthy Controls and May Reflect Altered CD4+ T-Cell Population Structure. <i>PLoS Genetics</i> , 2014, 10, e1004059.	3.5	70
12	On Well-Partial-Order Theory and Its Application to Combinatorial Problems of VLSI Design. <i>SIAM Journal on Discrete Mathematics</i> , 1992, 5, 117-126.	0.8	69
13	On search, decision, and the efficiency of polynomial-time algorithms. <i>Journal of Computer and System Sciences</i> , 1994, 49, 769-779.	1.2	67
14	Interstage Transportation Planning in the Deterministic Flow-Shop Environment. <i>Operations Research</i> , 1987, 35, 556-564.	1.9	62
15	Scalable Parallel Algorithms for FPT Problems. <i>Algorithmica</i> , 2006, 45, 269-284.	1.3	62
16	A systematic comparison of genome-scale clustering algorithms. <i>BMC Bioinformatics</i> , 2012, 13, S7.	2.6	55
17	Practical in-place merging. <i>Communications of the ACM</i> , 1988, 31, 348-352.	4.5	50
18	Genome-level analysis of genetic regulation of liver gene expression networks. <i>Hepatology</i> , 2007, 46, 548-557.	7.3	49

#	ARTICLE	IF	CITATIONS
19	Obstruction set isolation for the gate matrix layout problem. <i>Discrete Applied Mathematics</i> , 1994, 54, 169-213.	0.9	44
20	Comparison of threshold selection methods for microarray gene co-expression matrices. <i>BMC Research Notes</i> , 2009, 2, 240.	1.4	37
21	Ontological discovery environment: A system for integrating gene-phenotype associations. <i>Genomics</i> , 2009, 94, 377-387.	2.9	35
22	Efficient prediction of human protein-protein interactions at a global scale. <i>BMC Bioinformatics</i> , 2014, 15, 383.	2.6	32
23	Genome-wide DNA methylation analysis reveals loci that distinguish different types of adipose tissue in obese individuals. <i>Clinical Epigenetics</i> , 2017, 9, 48.	4.1	32
24	GeneWeaver: data driven alignment of cross-species genomics in biology and disease. <i>Nucleic Acids Research</i> , 2016, 44, D555-D559.	14.5	30
25	Online variable-sized bin packing. <i>Discrete Applied Mathematics</i> , 1988, 22, 143-148.	0.9	29
26	Computational, Integrative, and Comparative Methods for the Elucidation of Genetic Coexpression Networks. <i>Journal of Biomedicine and Biotechnology</i> , 2005, 2005, 172-180.	3.0	29
27	Analysis of a Compound Bin Packing Algorithm. <i>SIAM Journal on Discrete Mathematics</i> , 1991, 4, 61-79.	0.8	27
28	A network-based analysis of the late-phase reaction of the skin. <i>Journal of Allergy and Clinical Immunology</i> , 2006, 118, 220-225.	2.9	27
29	Combinatorial Genetic Regulatory Network Analysis Tools for High Throughput Transcriptomic Data. , 2005, , 150-165.		27
30	The Maximum Common Subgraph Problem: Faster Solutions via Vertex Cover. , 2007, , .		25
31	Exploration of Preterm Birth Rates Using the Public Health Exposome Database and Computational Analysis Methods. <i>International Journal of Environmental Research and Public Health</i> , 2014, 11, 12346-12366.	2.6	25
32	Scalable Combinatorial Tools for Health Disparities Research. <i>International Journal of Environmental Research and Public Health</i> , 2014, 11, 10419-10443.	2.6	22
33	EntropyExplorer: an R package for computing and comparing differential Shannon entropy, differential coefficient of variation and differential expression. <i>BMC Research Notes</i> , 2015, 8, 832.	1.4	21
34	Improved 0/1-interchange scheduling. <i>BIT Numerical Mathematics</i> , 1982, 22, 282-290.	2.0	17
35	Lower bounds on paraclique density. <i>Discrete Applied Mathematics</i> , 2016, 204, 208-212.	0.9	17
36	Polynomial-time self-reducibility: theoretical motivations and practical results. <i>International Journal of Computer Mathematics</i> , 1989, 31, 1-9.	1.8	15

#	ARTICLE	IF	CITATIONS
37	Approximating the pathwidth of outerplanar graphs. <i>Information Processing Letters</i> , 1998, 68, 17-23.	0.6	15
38	Validation of research trajectory 1 of an Exposome framework: Exposure to benzo(a)pyrene confers enhanced susceptibility to bacterial infection. <i>Environmental Research</i> , 2016, 146, 173-184.	7.5	15
39	A multifactorial obesity model developed from nationwide public health exposome data and modern computational analyses. <i>Obesity Research and Clinical Practice</i> , 2017, 11, 522-533.	1.8	15
40	Chapter 8 Algorithmic implications of the graph minor theorem. <i>Handbooks in Operations Research and Management Science</i> , 1995, 7, 481-502.	0.6	14
41	Robust Inference of Genetic Exchange Communities from Microbial Genomes Using TF-IDF. <i>Frontiers in Microbiology</i> , 2017, 8, 21.	3.5	14
42	The Effects of Social, Personal, and Behavioral Risk Factors and PM2.5 on Cardio-Metabolic Disparities in a Cohort of Community Health Center Patients. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 3561.	2.6	14
43	On algorithmic applications of the immersion order. <i>Discrete Mathematics</i> , 1998, 182, 191-196.	0.7	13
44	A robustness metric for biological data clustering algorithms. <i>BMC Bioinformatics</i> , 2019, 20, 503.	2.6	13
45	Structural and Social Determinants of Health Factors Associated with County-Level Variation in Non-Adherence to Antihypertensive Medication Treatment. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 6684.	2.6	13
46	Stable duplicate-key extraction with optimal time and space bounds. <i>Acta Informatica</i> , 1989, 26, 473-484.	0.5	12
47	Differential Shannon entropy and differential coefficient of variation: alternatives and augmentations to differential expression in the search for disease-related genes. <i>International Journal of Computational Biology and Drug Design</i> , 2014, 7, 183.	0.3	12
48	GeneWeaver: finding consilience in heterogeneous cross-species functional genomics data. <i>Mammalian Genome</i> , 2015, 26, 556-566.	2.2	12
49	Social Determinants and the Classification of Disease: Descriptive Epidemiology of Selected Socially Mediated Disease Constellations. <i>PLoS ONE</i> , 2014, 9, e110271.	2.5	12
50	MicroRNA Profiling in Adipose Before and After Weight Loss Highlights the Role of miR-223 and the NLRP3 Inflammasome. <i>Obesity</i> , 2020, 28, 570-580.	3.0	11
51	On Finding and Enumerating Maximal and Maximum k-Partite Cliques in k-Partite Graphs. <i>Algorithms</i> , 2019, 12, 23.	2.1	10
52	A novel approach to analyzing lung cancer mortality disparities: Using the exposome and a graph-theoretical toolchain. <i>Environmental Disease</i> , 2017, 2, 33-44.	0.1	10
53	Fast Algorithms for k-Immersion Testing. <i>Journal of Algorithms</i> , 1999, 30, 344-378.	0.9	9
54	Graph Theoretical Analysis of Genome-Scale Data: Examination of Gene Activation Occurring in the Setting of Community-Acquired Pneumonia. <i>Shock</i> , 2018, 50, 53-59.	2.1	9

#	ARTICLE	IF	CITATIONS
55	Biclique: an R package for maximal biclique enumeration in bipartite graphs. BMC Research Notes, 2020, 13, 88.	1.4	9
56	Graph Algorithms for Integrated Biological Analysis, with Applications to Type 1 Diabetes Data. , 2009, , 207-222.		7
57	Integrative Functional Genomics for Systems Genetics in GeneWeaver.org. Methods in Molecular Biology, 2017, 1488, 131-152.	0.9	6
58	Association of Cardiovascular Disease and Long-Term Exposure to Fine Particulate Matter (PM2.5) in the Southeastern United States. Atmosphere, 2021, 12, 947.	2.3	4
59	Scalable multipartite subgraph enumeration for integrative analysis of heterogeneous experimental functional genomics data. , 2015, , .		3
60	Using out-of-core techniques to produce exact solutions to the maximum clique problem on extremely large graphs. , 2009, , .		2
61	Toward an efficient, highly scalable maximum clique solver for massive graphs. , 2014, , .		2
62	Compound Analytics: Templates for Integrating Graph Algorithms and Machine Learning. , 2017, , .		2
63	Multiscale graph theoretical tools reveal subtle patterns in big geospatial data. , 2017, , .		2
64	Genetic analysis of BDNF expression cliques and adult neurogenesis in the hippocampus. , 2010, , .		1
65	Rural congestive heart failure mortality among US elderly, 1999â€2013: Identifying counties with promising outcomes and opportunities for implementation research. Family Medicine and Community Health, 2015, 3, 27-38.	1.6	1
66	Infant Deaths and Mortality from Gun Violence: Causal or Casual?. Journal of the National Medical Association, 2017, 109, 246-251.	0.8	1
67	Classification and Anomaly Detection in Traffic Patterns of New York City Taxis: A Case Study in Compound Analytics. , 2018, , .		1
68	Molecular Subtyping and Outlier Detection in Human Disease Using the Paraclique Algorithm. Algorithms, 2021, 14, 63.	2.1	1
69	Examining the Drivers of Racial/Ethnic Disparities in Non-Adherence to Antihypertensive Medications and Mortality Due to Heart Disease and Stroke: A County-Level Analysis. International Journal of Environmental Research and Public Health, 2021, 18, 12702.	2.6	1
70	A Study of Composite Heuristic Algorithms. Journal of the Operational Research Society, 1987, 38, 539.	3.4	0
71	MIMD VERSUS SIMD COMPUTATION: EXPERIENCE WITH NON-NUMERIC PARALLEL ALGORITHMSâ€— â€€. International Journal of Parallel, Emergent and Distributed Systems, 1994, 2, 123-138.	0.4	0
72	AN INTRODUCTION TO THE SPECIAL ISSUE. International Journal of Parallel, Emergent and Distributed Systems, 1996, 8, 1-2.	0.4	0

#	ARTICLE	IF	CITATIONS
73	Graph Algorithm Alternatives via Polynomial-Time Transformations: An Empirical Study Using Boolean Satisfiability and Integer Linear Programming. , 2017, , .		0
74	Compound Analytics using Combinatorics for Feature Selection: A Case Study in Biomarker Detection. , 2019, , .		0
75	Molecular Subtyping in Human Disease Using the Paraclique Algorithm. Communications in Computer and Information Science, 2019, , 54-58.	0.5	0