

Jeramie D Watrous

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

7,282
citations

136740

32
h-index

143772

57
g-index

60
all docs

60
docs citations

60
times ranked

10043
citing authors

#	ARTICLE	IF	CITATIONS
1	Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking. <i>Nature Biotechnology</i> , 2016, 34, 828-837.	9.4	2,802
2	Mass spectral molecular networking of living microbial colonies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1743-52.	3.3	804
3	Imaging mass spectrometry in microbiology. <i>Nature Reviews Microbiology</i> , 2011, 9, 683-694.	13.6	291
4	MS/MS networking guided analysis of molecule and gene cluster families. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2611-20.	3.3	250
5	The glutamate/cystine xCT antiporter antagonizes glutamine metabolism and reduces nutrient flexibility. <i>Nature Communications</i> , 2017, 8, 15074.	5.8	204
6	Fructose stimulated de novo lipogenesis is promoted by inflammation. <i>Nature Metabolism</i> , 2020, 2, 1034-1045.	5.1	174
7	Effects of Diet versus Gastric Bypass on Metabolic Function in Diabetes. <i>New England Journal of Medicine</i> , 2020, 383, 721-732.	13.9	164
8	Mass spectrometry searches using MASST. <i>Nature Biotechnology</i> , 2020, 38, 23-26.	9.4	160
9	Structure and Mechanism of a Cyclic Trinucleotide-Activated Bacterial Endonuclease Mediating Bacteriophage Immunity. <i>Molecular Cell</i> , 2020, 77, 723-733.e6.	4.5	148
10	Primer on Agar-Based Microbial Imaging Mass Spectrometry. <i>Journal of Bacteriology</i> , 2012, 194, 6023-6028.	1.0	133
11	Imaging mass spectrometry of natural products. <i>Natural Product Reports</i> , 2009, 26, 1521.	5.2	127
12	HORMA Domain Proteins and a Trip13-like ATPase Regulate Bacterial cGAS-like Enzymes to Mediate Bacteriophage Immunity. <i>Molecular Cell</i> , 2020, 77, 709-722.e7.	4.5	116
13	The evolving field of imaging mass spectrometry and its impact on future biological research. <i>Journal of Mass Spectrometry</i> , 2011, 46, 209-222.	0.7	109
14	Nonribosomal Peptides, Key Biocontrol Components for <i>Pseudomonas fluorescens</i> In5, Isolated from a Greenlandic Suppressive Soil. <i>MBio</i> , 2015, 6, e00079.	1.8	104
15	Comparative genomics and metabolic profiling of the genus <i>Lysobacter</i> . <i>BMC Genomics</i> , 2015, 16, 991.	1.2	103
16	Metabolic Profiling Directly from the Petri Dish Using Nanospray Desorption Electrospray Ionization Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 10385-10391.	3.2	101
17	Thiopeptide antibiotics stimulate biofilm formation in <i>Bacillus subtilis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3086-3091.	3.3	98
18	Capturing Bacterial Metabolic Exchange Using Thin Film Desorption Electrospray Ionization-Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 1598-1600.	3.2	94

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19	Genome mining and metabolic profiling of the rhizosphere bacterium <i>Pseudomonas</i> sp. SH-C52 for antimicrobial compounds. <i>Frontiers in Microbiology</i> , 2015, 6, 693.	1.5	91
20	Expansion of the mycobacterial α -PUPylome. <i>Molecular BioSystems</i> , 2010, 6, 376-385.	2.9	83
21	The spectral networks paradigm in high throughput mass spectrometry. <i>Molecular BioSystems</i> , 2012, 8, 2535.	2.9	79
22	Deep Neural Networks for Classification of LC-MS Spectral Peaks. <i>Analytical Chemistry</i> , 2019, 91, 12407-12413.	3.2	77
23	Microbial metabolic exchange in 3D. <i>ISME Journal</i> , 2013, 7, 770-780.	4.4	73
24	Directed Non-targeted Mass Spectrometry and Chemical Networking for Discovery of Eicosanoids and Related Oxylipins. <i>Cell Chemical Biology</i> , 2019, 26, 433-442.e4.	2.5	64
25	Decreased adipose tissue oxygenation associates with insulin resistance in individuals with obesity. <i>Journal of Clinical Investigation</i> , 2020, 130, 6688-6699.	3.9	64
26	Arteriovenous Blood Metabolomics: A Readout of Intra-Tissue Metabostasis. <i>Scientific Reports</i> , 2015, 5, 12757.	1.6	62
27	Quantitative molecular networking to profile marine cyanobacterial metabolomes. <i>Journal of Antibiotics</i> , 2014, 67, 105-112.	1.0	58
28	Statistical Workflow for Feature Selection in Human Metabolomics Data. <i>Metabolites</i> , 2019, 9, 143.	1.3	55
29	Taxonomic signatures of cause-specific mortality risk in human gut microbiome. <i>Nature Communications</i> , 2021, 12, 2671.	5.8	55
30	Benchmark datasets for 3D MALDI- and DESI-imaging mass spectrometry. <i>GigaScience</i> , 2015, 4, 20.	3.3	53
31	Molecular and chemical dialogues in bacteria-protozoa interactions. <i>Scientific Reports</i> , 2015, 5, 12837.	1.6	51
32	Visualization, Quantification, and Alignment of Spectral Drift in Population Scale Untargeted Metabolomics Data. <i>Analytical Chemistry</i> , 2017, 89, 1399-1404.	3.2	39
33	High-Throughput Measure of Bioactive Lipids Using Non-targeted Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2019, 1862, 17-35.	0.4	32
34	Metabolite Profiling and Stable Isotope Tracing in Sorted Subpopulations of Mammalian Cells. <i>Analytical Chemistry</i> , 2016, 88, 2707-2713.	3.2	30
35	Biliopancreatic Diversion Induces Greater Metabolic Improvement Than Roux-en-Y Gastric Bypass. <i>Cell Metabolism</i> , 2019, 30, 855-864.e3.	7.2	29
36	Profiling the Metabolism of Human Cells by Deep ¹³ C Labeling. <i>Cell Chemical Biology</i> , 2018, 25, 1419-1427.e4.	2.5	28

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37	Mapping Metabolic Events in the Cancer Cell Cycle Reveals Arginine Catabolism in the Committed SG2M Phase. <i>Cell Reports</i> , 2019, 26, 1691-1700.e5.	2.9	28
38	Integration of metabolomics, genomics, and immune phenotypes reveals the causal roles of metabolites in disease. <i>Genome Biology</i> , 2021, 22, 198.	3.8	26
39	Cellular sensing of extracellular purine nucleosides triggers an innate IFN- γ response. <i>Science Advances</i> , 2020, 6, eaba3688.	4.7	24
40	Microbiota-Produced <i>N</i> -Formyl Peptide fMLF Promotes Obesity-Induced Glucose Intolerance. <i>Diabetes</i> , 2019, 68, 1415-1426.	0.3	23
41	Integrating \sim -omics TM and natural product discovery platforms to investigate metabolic exchange in microbiomes. <i>Current Opinion in Chemical Biology</i> , 2011, 15, 79-87.	2.8	21
42	Yeast homologs of human MCLUR1 regulate mitochondrial proline metabolism. <i>Nature Communications</i> , 2020, 11, 4866.	5.8	21
43	Eicosanoid Inflammatory Mediators Are Robustly Associated With Blood Pressure in the General Population. <i>Journal of the American Heart Association</i> , 2020, 9, e017598.	1.6	17
44	A Single Visualization Technique for Displaying Multiple Metabolite-Phenotype Associations. <i>Metabolites</i> , 2019, 9, 128.	1.3	15
45	One-Year Effects of Omega-3 Treatment on Fatty Acids, Oxylipins, and Related Bioactive Lipids and Their Associations with Clinical Lipid and Inflammatory Biomarkers: Findings from a Substudy of the Vitamin D and Omega-3 Trial (VITAL). <i>Metabolites</i> , 2020, 10, 431.	1.3	13
46	Mapping metabolic oscillations during cell cycle progression. <i>Cell Cycle</i> , 2020, 19, 2676-2684.	1.3	10
47	Nontargeted mass spectrometry of dried blood spots for interrogation of the human circulating metabolome. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4772.	0.7	10
48	A plasma metabolite score of three eicosanoids predicts incident type 2 diabetes: a prospective study in three independent cohorts. <i>BMJ Open Diabetes Research and Care</i> , 2022, 10, e002519.	1.2	10
49	A Web Service Framework for Interactive Analysis of Metabolomics Data. <i>Analytical Chemistry</i> , 2017, 89, 5713-5718.	3.2	9
50	Discovery of tanshinone derivatives with anti-MRSA activity via targeted bio-transformation. <i>Synthetic and Systems Biotechnology</i> , 2016, 1, 187-194.	1.8	8
51	Validation-based model selection for ¹³ C metabolic flux analysis with uncertain measurement errors. <i>PLoS Computational Biology</i> , 2022, 18, e1009999.	1.5	7
52	Quantitative Comparison of Statistical Methods for Analyzing Human Metabolomics Data. <i>Metabolites</i> , 2022, 12, 519.	1.3	7
53	Estimation of flux ratios without uptake or release data: Application to serine and methionine metabolism. <i>Metabolic Engineering</i> , 2017, 43, 137-146.	3.6	6
54	Mapping choline metabolites in normal and transformed cells. <i>Metabolomics</i> , 2020, 16, 125.	1.4	6

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55	Vaping-induced metabolomic signatures in the circulation of mice are driven by device type, e-liquid, exposure duration and sex. ERJ Open Research, 2021, 7, 00229-2021.	1.1	4
56	A Method for Measuring Metabolism in Sorted Subpopulations of Complex Cell Communities Using Stable Isotope Tracing. Journal of Visualized Experiments, 2017, , .	0.2	2
57	Large-Scale Profiling of Cellular Metabolic Activities Using Deep 13C Labeling Medium. Methods in Molecular Biology, 2020, 2088, 73-92.	0.4	2