

Michael Witting

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

3,283
citations

159585

30
h-index

182427

51
g-index

98
all docs

98
docs citations

98
times ranked

5494
citing authors

#	ARTICLE	IF	CITATIONS
1	Feature-based molecular networking in the GNPS analysis environment. <i>Nature Methods</i> , 2020, 17, 905-908.	19.0	650
2	Distinct signatures of host-microbial meta-metabolome and gut microbiome in two C57BL/6 strains under high-fat diet. <i>ISME Journal</i> , 2014, 8, 2380-2396.	9.8	106
3	Genome-wide association study in 8,956 German individuals identifies influence of ABO histo-blood groups on gut microbiome. <i>Nature Genetics</i> , 2021, 53, 147-155.	21.4	101
4	High-confidence structural annotation of metabolites absent from spectral libraries. <i>Nature Biotechnology</i> , 2022, 40, 411-421.	17.5	100
5	Molecular and structural characterization of dissolved organic matter during and post cyanobacterial bloom in Taihu by combination of NMR spectroscopy and FTICR mass spectrometry. <i>Water Research</i> , 2014, 57, 280-294.	11.3	87
6	MassTRIX Reloaded: Combined Analysis and Visualization of Transcriptome and Metabolome Data. <i>PLoS ONE</i> , 2012, 7, e39860.	2.5	82
7	Development of a high-resolution NGS-based HLA-typing and analysis pipeline. <i>Nucleic Acids Research</i> , 2015, 43, e70-e70.	14.5	77
8	Mycorrhiza-Triggered Transcriptomic and Metabolomic Networks Impinge on Herbivore Fitness. <i>Plant Physiology</i> , 2018, 176, 2639-2656.	4.8	75
9	High precision mass measurements for wine metabolomics. <i>Frontiers in Chemistry</i> , 2014, 2, 102.	3.6	71
10	Current status of retention time prediction in metabolite identification. <i>Journal of Separation Science</i> , 2020, 43, 1746-1754.	2.5	71
11	Ancient DNA study reveals HLA susceptibility locus for leprosy in medieval Europeans. <i>Nature Communications</i> , 2018, 9, 1569.	12.8	67
12	IL-17 controls central nervous system autoimmunity through the intestinal microbiome. <i>Science Immunology</i> , 2021, 6, .	11.9	67
13	Steroid hormone signalling links reproduction to lifespan in dietary-restricted <i>Caenorhabditis elegans</i> . <i>Nature Communications</i> , 2014, 5, 4879.	12.8	65
14	The metabolomics Toolbox in Bioconductor and beyond. <i>Metabolites</i> , 2019, 9, 200.	2.9	64
15	16p11.2 600 kb Duplications confer risk for typical and atypical Rolandic epilepsy. <i>Human Molecular Genetics</i> , 2014, 23, 6069-6080.	2.9	61
16	Optimizing a ultrahigh pressure liquid chromatography-time of flight-mass spectrometry approach using a novel sub-2µm core-shell particle for in depth lipidomic profiling of <i>Caenorhabditis elegans</i> . <i>Journal of Chromatography A</i> , 2014, 1359, 91-99.	3.7	51
17	Amniotic Fluid and Maternal Serum Metabolic Signatures in the Second Trimester Associated with Preterm Delivery. <i>Journal of Proteome Research</i> , 2017, 16, 898-910.	3.7	48
18	Construction and benchmarking of a multi-ethnic reference panel for the imputation of HLA class I and II alleles. <i>Human Molecular Genetics</i> , 2019, 28, 2078-2092.	2.9	48

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19	Chemical messages in 170-year-old champagne bottles from the Baltic Sea: Revealing tastes from the past. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5893-5898.	7.1	47
20	Integrating analytical resolutions in non-targeted wine metabolomics. <i>Tetrahedron</i> , 2015, 71, 2983-2990.	1.9	45
21	Phenotype of hgtA(mbiA), a recently evolved orphan gene of Escherichia coli and Shigella, completely overlapping in antisense toyaaW. <i>FEMS Microbiology Letters</i> , 2014, 350, 57-64.	1.8	44
22	Current state-of-the-art of separation methods used in LC-MS based metabolomics and lipidomics. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2022, 1188, 123069.	2.3	44
23	Evidence for the recent origin of a bacterial protein-coding, overlapping orphan gene by evolutionary overprinting. <i>BMC Evolutionary Biology</i> , 2015, 15, 283.	3.2	43
24	A Modular and Expandable Ecosystem for Metabolomics Data Annotation in R. <i>Metabolites</i> , 2022, 12, 173.	2.9	43
25	Usage of FT-ICR-MS Metabolomics for Characterizing the Chemical Signatures of Barrel-Aged Whisky. <i>Frontiers in Chemistry</i> , 2018, 6, 29.	3.6	42
26	Genome-wide association study of Alzheimer's disease CSF biomarkers in the EMIF-AD Multimodal Biomarker Discovery dataset. <i>Translational Psychiatry</i> , 2020, 10, 403.	4.8	42
27	The Caenorhabditis elegans lipidome. <i>Archives of Biochemistry and Biophysics</i> , 2016, 589, 27-37.	3.0	41
28	High-resolution metabolite imaging of light and dark treated retina using MALDI-FTICR mass spectrometry. <i>Proteomics</i> , 2014, 14, 913-923.	2.2	40
29	Modeling Meets Metabolomics – The WormJam Consensus Model as Basis for Metabolic Studies in the Model Organism Caenorhabditis elegans. <i>Frontiers in Molecular Biosciences</i> , 2018, 5, 96.	3.5	40
30	Identification of a High-Affinity Pyruvate Receptor in Escherichia coli. <i>Scientific Reports</i> , 2017, 7, 1388.	3.3	36
31	Natural oxygenation of Champagne wine during ageing on lees: A metabolomics picture of hormesis. <i>Food Chemistry</i> , 2016, 203, 207-215.	8.2	35
32	Networks and Graphs Discovery in Metabolomics Data Analysis and Interpretation. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 841373.	3.5	35
33	Identifying genetic modifiers of age-associated penetrance in X-linked dystonia-parkinsonism. <i>Nature Communications</i> , 2021, 12, 3216.	12.8	34
34	Ultrahigh resolution mass spectrometry-based metabolic characterization reveals cerebellum as a disturbed region in two animal models. <i>Talanta</i> , 2014, 118, 45-53.	5.5	31
35	The Role of Dafachronic Acid Signaling in Development and Longevity in Caenorhabditis elegans: Digging Deeper Using Cutting-Edge Analytical Chemistry. <i>Frontiers in Endocrinology</i> , 2016, 7, 12.	3.5	30
36	Metabotype variation in a field population of tansy plants influences aphid host selection. <i>Plant, Cell and Environment</i> , 2018, 41, 2791-2805.	5.7	30

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37	Acute physical exercise improves shifting in adolescents at school: evidence for a dopaminergic contribution. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 196.	2.0	26
38	DI-HCR-FT-MS-based high-throughput deep metabotyping: a case study of the <i>Caenorhabditis elegans</i> "Pseudomonas aeruginosa" infection model. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 1059-1073.	3.7	26
39	Pharmacometabolic response to pirfenidone in pulmonary fibrosis detected by MALDI-FTICR-MSI. <i>European Respiratory Journal</i> , 2018, 52, 1702314.	6.7	26
40	Development and application of a HILIC UHPLC-MS method for polar fecal metabolome profiling. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019, 1109, 142-148.	2.3	26
41	TMEM106B and CPOX are genetic determinants of cerebrospinal fluid Alzheimer's disease biomarker levels. <i>Alzheimer's and Dementia</i> , 2021, 17, 1628-1640.	0.8	23
42	Computational analysis and ratiometric comparison approaches aimed to assist column selection in hydrophilic interaction liquid chromatography-tandem mass spectrometry targeted metabolomics. <i>Journal of Chromatography A</i> , 2015, 1406, 145-155.	3.7	22
43	Autophagy compensates for defects in mitochondrial dynamics. <i>PLoS Genetics</i> , 2020, 16, e1008638.	3.5	22
44	Metabolomic adjustments in the orchid mycorrhizal fungus <i>Tulasnella calospora</i> during symbiosis with <i>Serapias vomeracea</i> . <i>New Phytologist</i> , 2020, 228, 1939-1952.	7.3	21
45	Genome-wide analysis of 944 133 individuals provides insights into the etiology of haemorrhoidal disease. <i>Gut</i> , 2021, 70, 1538-1549.	12.1	21
46	LipidFrag: Improving reliability of in silico fragmentation of lipids and application to the <i>Caenorhabditis elegans</i> lipidome. <i>PLoS ONE</i> , 2017, 12, e0172311.	2.5	21
47	Impaired phosphocreatine metabolism in white adipocytes promotes inflammation. <i>Nature Metabolism</i> , 2022, 4, 190-202.	11.9	21
48	Quo Vadis <i>Caenorhabditis elegans</i> Metabolomics? A Review of Current Methods and Applications to Explore Metabolism in the Nematode. <i>Metabolites</i> , 2021, 11, 284.	2.9	20
49	Genome-Wide Association Study of Alzheimer's Disease Brain Imaging Biomarkers and Neuropsychological Phenotypes in the European Medical Information Framework for Alzheimer's Disease Multimodal Biomarker Discovery Dataset. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, 840651.	3.4	20
50	QSRR Modeling for Metabolite Standards Analyzed by Two Different Chromatographic Columns Using Multiple Linear Regression. <i>Metabolites</i> , 2017, 7, 7.	2.9	19
51	A post-GWAS analysis of predicted regulatory variants and tuberculosis susceptibility. <i>PLoS ONE</i> , 2017, 12, e0174738.	2.5	19
52	Comparative analysis of LytS/LytTR-type histidine kinase/response regulator systems in $\hat{3}$ -proteobacteria. <i>PLoS ONE</i> , 2017, 12, e0182993.	2.5	18
53	The sphingolipidome of the model organism <i>Caenorhabditis elegans</i> . <i>Chemistry and Physics of Lipids</i> , 2019, 222, 15-22.	3.2	17
54	Identification of two novel bullous pemphigoid-associated alleles, HLA-DQA1*05:05 and -DRB1*07:01, in Germans. <i>Orphanet Journal of Rare Diseases</i> , 2021, 16, 228.	2.7	16

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55	Whole-exome and HLA sequencing in Febrile infection-related epilepsy syndrome. <i>Annals of Clinical and Translational Neurology</i> , 2020, 7, 1429-1435.	3.7	15
56	Validity and Prognostic Value of a Polygenic Risk Score for Parkinson's Disease. <i>Genes</i> , 2021, 12, 1859.	2.4	15
57	Genome-wide rare copy number variation screening in ulcerative colitis identifies potential susceptibility loci. <i>BMC Medical Genetics</i> , 2016, 17, 26.	2.1	14
58	Tandem HILIC-ERP liquid chromatography for increased polarity coverage in food analysis. <i>Electrophoresis</i> , 2018, 39, 1645-1653.	2.4	12
59	Complement Receptor 1 (CR1, CD35) Polymorphisms and Soluble CR1: A Proposed Anti-inflammatory Role to Quench the Fire of "Fogo Selvagem" Pempfigus Foliaceus. <i>Frontiers in Immunology</i> , 2019, 10, 2585.	4.8	12
60	UBTF::ATXN7L3 gene fusion defines novel B cell precursor ALL subtype with CDX2 expression and need for intensified treatment. <i>Leukemia</i> , 2022, 36, 1676-1680.	7.2	12
61	Genetic variability of immune-related lncRNAs: polymorphisms in <i>LINC01013</i> and <i>LY86AS1</i> are associated with pemphigus foliaceus susceptibility. <i>Experimental Dermatology</i> , 2021, 30, 831-840.	2.9	11
62	DIAMetAlyzer allows automated false-discovery rate-controlled analysis for data-independent acquisition in metabolomics. <i>Nature Communications</i> , 2022, 13, 1347.	12.8	11
63	In Silico Guided Discovery of Novel Class I and II <i>Trypanosoma cruzi</i> Epitopes Recognized by T Cells from Chagas Disease Patients. <i>Journal of Immunology</i> , 2020, 204, 1571-1581.	0.8	10
64	Comprehensive Vitamer Profiling of Folate Mono- and Polyglutamates in Baker's Yeast (<i>Saccharomyces cerevisiae</i>) by HPLC-MS/MS. <i>Journal of Chromatography B</i> , 2021, 1217, 105-114.	2.9	9
65	Reduced peroxisomal import triggers peroxisomal retrograde signaling. <i>Cell Reports</i> , 2021, 34, 108653.	6.4	9
66	N-Alkylpyridinium sulfonates for retention time indexing in reversed-phase-liquid chromatography-mass spectrometry-based metabolomics. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 7387-7398.	3.7	9
67	Metformin impacts cecal bile acid profiles in mice. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1083, 35-43.	2.3	8
68	Genetic association and differential expression of HLA Complex Group lncRNAs in pemphigus. <i>Journal of Autoimmunity</i> , 2021, 123, 102705.	6.5	8
69	Metabolic profile of human coelomic fluid. <i>Bioanalysis</i> , 2017, 9, 37-51.	1.5	7
70	High-throughput method for the hybridisation-based targeted enrichment of long genomic fragments for PacBio third-generation sequencing. <i>NAR Genomics and Bioinformatics</i> , 2022, 4, .	3.2	7
71	Transcriptome and Metabolome Data Integration: Technical Prerequisites for Successful Data Fusion and Visualization. <i>Comprehensive Analytical Chemistry</i> , 2014, 63, 421-442.	1.3	6
72	iTAG-RNA Isolates Cell-Specific Transcriptional Responses to Environmental Stimuli and Identifies an RNA-Based Endocrine Axis. <i>Cell Reports</i> , 2020, 30, 3183-3194.e4.	6.4	6

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73	UHPLC-IM-Q-ToFMS analysis of maradolipids, found exclusively in <i>Caenorhabditis elegans</i> dauer larvae. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 2091-2102.	3.7	6
74	HLH- β -dependent rewiring of metabolism during starvation in <i>C. elegans</i> . <i>Aging Cell</i> , 2021, 20, e13342.	6.7	6
75	Fast separation and quantification of steroid hormones 14 - and 17 -dafachronic acid in <i>Caenorhabditis elegans</i> . <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 978-979, 118-121.	2.3	4
76	High-Resolution HLA-Typing by Next-Generation Sequencing of Randomly Fragmented Target DNA. <i>Methods in Molecular Biology</i> , 2018, 1802, 63-88.	0.9	4
77	Novel Extraction Method for Combined Lipid and Metal Speciation From <i>Caenorhabditis elegans</i> With Focus on Iron Redox Status and Lipid Profiling. <i>Frontiers in Chemistry</i> , 2021, 9, 788094.	3.6	4
78	Genetic Associations and Differential mRNA Expression Levels of Host Genes Suggest a Viral Trigger for Endemic <i>Pemphigus Foliaceus</i> . <i>Viruses</i> , 2022, 14, 879.	3.3	4
79	MobilityTransformR: an R package for effective mobility transformation of CE-MS data. <i>Bioinformatics</i> , 2022, 38, 4044-4045.	4.1	4
80	Bio- and Chemoinformatics Approaches for Metabolomics Data Analysis. <i>Methods in Molecular Biology</i> , 2018, 1738, 41-61.	0.9	3
81	Suggestions for Standardized Identifiers for Fatty Acyl Compounds in Genome Scale Metabolic Models and Their Application to the Wormjam <i>Caenorhabditis elegans</i> Model. <i>Metabolites</i> , 2020, 10, 130.	2.9	3
82	Comparison of lipidome profiles of <i>Caenorhabditis elegans</i> results from an inter-laboratory ring trial. <i>Metabolomics</i> , 2021, 17, 25.	3.0	3
83	Identification of molecules from non-targeted analysis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1071, 1-2.	2.3	2
84	Using Genome-Scale Metabolic Networks for Analysis, Visualization, and Integration of Targeted Metabolomics Data. <i>Methods in Molecular Biology</i> , 2020, 2104, 361-386.	0.9	2
85	Ultrahigh Resolution Mass Spectrometry Based Non-targeted Microbial Metabolomics. , 2012, , 57-71.		0
86	Combined Nontargeted Analytical Methodologies for the Characterization of the Chemical Evolution of Bottled Wines. <i>ACS Symposium Series</i> , 2015, , 13-27.	0.5	0
87	New Investigator Award: announcing our finalists!. <i>Bioanalysis</i> , 2017, 9, 969-973.	1.5	0
88	ITag-RNA Allows in Vivo Cell-Type Specific Transcriptional Characterization and Tracking of Circulating Transcripts. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
89	Pharmacometabolic effect of pirfenidone treatment in IPF detected by high resolution MALDI-FTICR imaging. , 2018, , .		0
90	Autophagy compensates for defects in mitochondrial dynamics. , 2020, 16, e1008638.		0

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91	Autophagy compensates for defects in mitochondrial dynamics. , 2020, 16, e1008638.		0
92	Autophagy compensates for defects in mitochondrial dynamics. , 2020, 16, e1008638.		0
93	Autophagy compensates for defects in mitochondrial dynamics. , 2020, 16, e1008638.		0