

Madeleine Ernst

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

14,578
citations

304368

22
h-index

288905

40
g-index

55
all docs

55
docs citations

55
times ranked

18063
citing authors

#	ARTICLE	IF	CITATIONS
1	Reproducible, interactive, scalable and extensible microbiome data science using QIIME 2. <i>Nature Biotechnology</i> , 2019, 37, 852-857.	9.4	11,167
2	Feature-based molecular networking in the GNPS analysis environment. <i>Nature Methods</i> , 2020, 17, 905-908.	9.0	650
3	Reproducible molecular networking of untargeted mass spectrometry data using GNPS. <i>Nature Protocols</i> , 2020, 15, 1954-1991.	5.5	344
4	MolNetEnhancer: Enhanced Molecular Networks by Integrating Metabolome Mining and Annotation Tools. <i>Metabolites</i> , 2019, 9, 144.	1.3	245
5	Mass spectrometry searches using MASST. <i>Nature Biotechnology</i> , 2020, 38, 23-26.	9.4	160
6	Mass spectrometry in plant metabolomics strategies: from analytical platforms to data acquisition and processing. <i>Natural Product Reports</i> , 2014, 31, 784.	5.2	149
7	Global medicinal uses of <i>Euphorbia</i> L. (Euphorbiaceae). <i>Journal of Ethnopharmacology</i> , 2015, 176, 90-101.	2.0	147
8	Heavy metal exposure causes changes in the metabolic health-associated gut microbiome and metabolites. <i>Environment International</i> , 2019, 126, 454-467.	4.8	125
9	Home chemical and microbial transitions across urbanization. <i>Nature Microbiology</i> , 2020, 5, 108-115.	5.9	83
10	ReDU: a framework to find and reanalyze public mass spectrometry data. <i>Nature Methods</i> , 2020, 17, 901-904.	9.0	79
11	Auto-deconvolution and molecular networking of gas chromatography–mass spectrometry data. <i>Nature Biotechnology</i> , 2021, 39, 169-173.	9.4	78
12	Identification of the Bacterial Biosynthetic Gene Clusters of the Oral Microbiome Illuminates the Unexplored Social Language of Bacteria during Health and Disease. <i>MBio</i> , 2019, 10, .	1.8	73
13	Chemically informed analyses of metabolomics mass spectrometry data with Qemistree. <i>Nature Chemical Biology</i> , 2021, 17, 146-151.	3.9	73
14	Mass Spectrometry of Flavonoid Vicenin-2, Based Sunlight Barriers in <i>Lychnophora</i> species. <i>Scientific Reports</i> , 2014, 4, 4309.	1.6	61
15	Comprehensive mass spectrometry–guided phenotyping of plant specialized metabolites reveals metabolic diversity in the cosmopolitan plant family Rhamnaceae. <i>Plant Journal</i> , 2019, 98, 1134-1144.	2.8	59
16	Deciphering complex metabolite mixtures by unsupervised and supervised substructure discovery and semi-automated annotation from MS/MS spectra. <i>Faraday Discussions</i> , 2019, 218, 284-302.	1.6	55
17	Untargeted mass spectrometry-based metabolomics approach unveils molecular changes in raw and processed foods and beverages. <i>Food Chemistry</i> , 2020, 302, 125290.	4.2	52
18	Evolutionary prediction of medicinal properties in the genus <i>Euphorbia</i> L.. <i>Scientific Reports</i> , 2016, 6, 30531.	1.6	45

#	ARTICLE	IF	CITATIONS
19	Functional Traits 2.0: The power of the metabolome for ecology. <i>Journal of Ecology</i> , 2022, 110, 4-20.	1.9	42
20	A phylogenetic road map to antimalarial <i>Artemisia</i> species. <i>Journal of Ethnopharmacology</i> , 2018, 225, 1-9.	2.0	40
21	Assessing Specialized Metabolite Diversity in the Cosmopolitan Plant Genus <i>Euphorbia</i> L.. <i>Frontiers in Plant Science</i> , 2019, 10, 846.	1.7	40
22	A multi-omics approach unravels metagenomic and metabolic alterations of a probiotic and synbiotic additive in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Microbiome</i> , 2022, 10, 21.	4.9	25
23	Neonatal metabolome of caesarean section and risk of childhood asthma. <i>European Respiratory Journal</i> , 2022, 59, 2102406.	3.1	20
24	A UHPLC-HRMS based metabolomics and chemoinformatics approach to chemically distinguish "super foods"™ from a variety of plant-based foods. <i>Food Chemistry</i> , 2020, 313, 126071.	4.2	18
25	Initial Development toward Non-Invasive Drug Monitoring via Untargeted Mass Spectrometric Analysis of Human Skin. <i>Analytical Chemistry</i> , 2019, 91, 8062-8069.	3.2	17
26	Studying Autism Using Untargeted Metabolomics in Newborn Screening Samples. <i>Journal of Molecular Neuroscience</i> , 2021, 71, 1378-1393.	1.1	17
27	Identification of compounds responsible for the anthelmintic effects of chicory (<i>Cichorium intybus</i>) by molecular networking and bio-guided fractionation. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2021, 15, 105-114.	1.4	17
28	Gestational age-dependent development of the neonatal metabolome. <i>Pediatric Research</i> , 2021, 89, 1396-1404.	1.1	16
29	Assessing specialized metabolite diversity of <i>Alnus</i> species by a digitized LC-MS/MS data analysis workflow. <i>Phytochemistry</i> , 2020, 173, 112292.	1.4	15
30	Biomonitoring of Polycyclic Aromatic Hydrocarbon Deposition in Greenland Using Historical Moss Herbarium Specimens Shows a Decrease in Pollution During the 20th Century. <i>Frontiers in Plant Science</i> , 2020, 11, 1085.	1.7	14
31	Using evolutionary tools to search for novel psychoactive plants. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2016, 14, 246-255.	0.4	13
32	Computational Removal of Undesired Mass Spectral Features Possessing Repeat Units via a Kendrick Mass Filter. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 268-277.	1.2	12
33	A metabolomic protocol for plant systematics by matrix-assisted laser-desorption/ionization time-of-flight mass spectrometry. <i>Analytica Chimica Acta</i> , 2015, 859, 46-58.	2.6	9
34	Vertical Transfer of Metabolites Detectable from Newborn's Dried Blood Spot Samples Using UPLC-MS: A Chemometric Study. <i>Metabolites</i> , 2022, 12, 94.	1.3	9
35	Discovery of Urinary Biomarkers of Seaweed Intake Using Untargeted LC-MS Metabolomics in a Three-Way Cross-Over Human Study. <i>Metabolites</i> , 2021, 11, 11.	1.3	5
36	Combined Urinary Biomarkers to Assess Coffee Intake Using Untargeted Metabolomics: Discovery in Three Pilot Human Intervention Studies and Validation in Cross-Sectional Studies. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 7230-7242.	2.4	3

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37	Updates on the genus <i>Euphorbia</i> (Euphorbiaceae) in Santa Catarina, Brazil. <i>Phytotaxa</i> , 2017, 298, 222.	0.1	2
38	Chemical Gradients of Plant Substrates in an <i>Atta texana</i> Fungus Garden. <i>MSystems</i> , 2021, 6, e0060121.	1.7	2
39	Thapsigargin and induced chemical defence in <i>Thapsia garganica</i> . <i>Chemoecology</i> , 2020, 30, 255-267.	0.6	1
40	Metabolic Profiling of Interspecies Interactions During Sessile Bacterial Cultivation Reveals Growth and Sporulation Induction in <i>Paenibacillus amylolyticus</i> in Response to <i>Xanthomonas retroflexus</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, 805473.	1.8	1