Madeleine Ernst

List of Publications by Year
in descending order

40 papers	14,578 citations	304743 22 h-index	289244 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. Nature Biotechnology, 2019, 37, 852-857.	17.5	11,167
2	Feature-based molecular networking in the GNPS analysis environment. Nature Methods, 2020, 17, 905-908.	19.0	650
3	Reproducible molecular networking of untargeted mass spectrometry data using GNPS. Nature Protocols, 2020, 15, 1954-1991.	12.0	344
4	MolNetEnhancer: Enhanced Molecular Networks by Integrating Metabolome Mining and Annotation Tools. Metabolites, 2019, 9, 144.	2.9	245
5	Mass spectrometry searches using MASST. Nature Biotechnology, 2020, 38, 23-26.	17.5	160
6	Mass spectrometry in plant metabolomics strategies: from analytical platforms to data acquisition and processing. Natural Product Reports, 2014, 31, 784.	10.3	149
7	Global medicinal uses of Euphorbia L. (Euphorbiaceae). Journal of Ethnopharmacology, 2015, 176, 90-101.	4.1	147
8	Heavy metal exposure causes changes in the metabolic health-associated gut microbiome and metabolites. Environment International, 2019, 126, 454-467.	10.0	125
9	Home chemical and microbial transitions across urbanization. Nature Microbiology, 2020, 5, 108-115.	13.3	83
10	ReDU: a framework to find and reanalyze public mass spectrometry data. Nature Methods, 2020, 17, 901-904.	19.0	79
11	Auto-deconvolution and molecular networking of gas chromatographyâ€“mass spectrometry data. Nature Biotechnology, 2021, 39, 169-173.	17.5	78
12	Identification of the Bacterial Biosynthetic Gene Clusters of the Oral Microbiome Illuminates the Unexplored Social Language of Bacteria during Health and Disease. MBio, 2019, 10, .	4.1	73
13	Chemically informed analyses of metabolomics mass spectrometry data with Qemistree. Nature Chemical Biology, 2021, 17, 146-151.	8.0	73
14	Mass Spectrometry of Flavonoid Vicenin-2, Based Sunlight Barriers in Lychnophora species. Scientific Reports, 2014, 4, 4309.	3.3	61
15	Comprehensive mass spectrometryâ€guided phenotyping of plant specialized metabolites reveals metabolic diversity in the cosmopolitan plant family Rhamnaceae. Plant Journal, 2019, 98, 1134-1144.	5.7	59
16	Deciphering complex metabolite mixtures by unsupervised and supervised substructure discovery and semi-automated annotation from MS/MS spectra. Faraday Discussions, 2019, 218, 284-302.	3.2	55
17	Untargeted mass spectrometry-based metabolomics approach unveils molecular changes in raw and processed foods and beverages. Food Chemistry, 2020, 302, 125290.	8.2	52
18	Evolutionary prediction of medicinal properties in the genus Euphorbia L.. Scientific Reports, 2016, 6, 30531.	3.3	45

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19	Functional Traits 2.0: The power of the metabolome for ecology. Journal of Ecology, 2022, 110, 4-20.	4.0	42
20	A phylogenetic road map to antimalarial Artemisia species. Journal of Ethnopharmacology, 2018, 225, 1-9.	4.1	40
21	Assessing Specialized Metabolite Diversity in the Cosmopolitan Plant Genus Euphorbia L.. Frontiers in Plant Science, 2019, 10, 846.	3.6	40
22	A multi-omics approach unravels metagenomic and metabolic alterations of a probiotic and synbiotic additive in rainbow trout (Oncorhynchus mykiss). Microbiome, 2022, 10, 21.	11.1	25
23	Neonatal metabolome of caesarean section and risk of childhood asthma. European Respiratory Journal, 2022, 59, 2102406.	6.7	20
24	A UHPLC-HRMS based metabolomics and chemoinformatics approach to chemically distinguish â€˜super foodsâ€™ from a variety of plant-based foods. Food Chemistry, 2020, 313, 126071.	8.2	18
25	Initial Development toward Non-Invasive Drug Monitoring via Untargeted Mass Spectrometric Analysis of Human Skin. Analytical Chemistry, 2019, 91, 8062-8069.	6.5	17
26	Studying Autism Using Untargeted Metabolomics in Newborn Screening Samples. Journal of Molecular Neuroscience, 2021, 71, 1378-1393.	2.3	17
27	Identification of compounds responsible for the anthelmintic effects of chicory (Cichorium intybus) by molecular networking and bio-guided fractionation. International Journal for Parasitology: Drugs and Drug Resistance, 2021, 15, 105-114.	3.4	17
28	Gestational age-dependent development of the neonatal metabolome. Pediatric Research, 2021, 89, 1396-1404.	2.3	16
29	Assessing specialized metabolite diversity of Alnus species by a digitized LCâ€“MS/MS data analysis workflow. Phytochemistry, 2020, 173, 112292.	2.9	15
30	Biomonitoring of Polycyclic Aromatic Hydrocarbon Deposition in Greenland Using Historical Moss Herbarium Specimens Shows a Decrease in Pollution During the 20th Century. Frontiers in Plant Science, 2020, 11, 1085.	3.6	14
31	Using evolutionary tools to search for novel psychoactive plants. Plant Genetic Resources: Characterisation and Utilisation, 2016, 14, 246-255.	0.8	13
32	Computational Removal of Undesired Mass Spectral Features Possessing Repeat Units via a Kendrick Mass Filter. Journal of the American Society for Mass Spectrometry, 2019, 30, 268-277.	2.8	12
33	A metabolomic protocol for plant systematics by matrix-assisted laser-desorption/ionization time-of flight mass spectrometry. Analytica Chimica Acta, 2015, 859, 46-58.	5.4	9
34	Vertical Transfer of Metabolites Detectable from Newbornâ€™s Dried Blood Spot Samples Using UPLC-MS: A Chemometric Study. Metabolites, 2022, 12, 94.	2.9	9
35	Discovery of Urinary Biomarkers of Seaweed Intake Using Untargeted LCâ€“MS Metabolomics in a Three-Way Cross-Over Human Study. Metabolites, 2021, 11, 11.	2.9	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. Journal of Agricultural and Food Chemistry, 2021, 69, 7230-7242.	5.2	3

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37	Updates on the genus Euphorbia (Euphorbiaceae) in Santa Catarina, Brazil. Phytotaxa, 2017, 298, 222.	0.3	2
38	Chemical Gradients of Plant Substrates in an Atta texana Fungus Garden. MSystems, 2021, 6, e0060121.	3.8	2
39	Thapsigargins and induced chemical defence in Thapsia garganica. Chemoecology, 2020, 30, 255-267.	1.1	1
40	Metabolic Profiling of Interspecies Interactions During Sessile Bacterial Cultivation Reveals Growth and Sporulation Induction in Paenibacillus amylolyticus in Response to Xanthomonas retroflexus. Frontiers in Cellular and Infection Microbiology, 2022, 12, 805473.	3.9	1