Louis-Felix Nothias

List of Publications by Year
in descending order

51 papers	19,469 citations	136950 32 h-index	168389 53 g-index
70 all docs	70 docs citations	70 times ranked	20892 citing authors

#	Article	IF	Citations
1	High-confidence structural annotation of metabolites absent from spectral libraries. Nature Biotechnology, 2022, 40, 411-421.	17.5	100
2	Tandem Mass Spectrometry Molecular Networking as a Powerful and Efficient Tool for Drug Metabolism Studies. Analytical Chemistry, 2022, 94, 1456-1464.	6.5	17
3	Distinguishing the molecular diversity, nutrient content, and energetic potential of exometabolomes produced by macroalgae and reef-building corals Â. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	28
4	Comparative metabolomic analysis reveals shared and unique chemical interactions in sponge holobionts. Microbiome, 2022, 10, 22.	11.1	11
5	MEMO: Mass Spectrometry-Based Sample Vectorization to Explore Chemodiverse Datasets. Frontiers in Bioinformatics, 2022, 2, .	2.1	7
6	Auto-deconvolution and molecular networking of gas chromatographyâ€“mass spectrometry data. Nature Biotechnology, 2021, 39, 169-173.	17.5	78
7	Systematic classification of unknown metabolites using high-resolution fragmentation mass spectra. Nature Biotechnology, 2021, 39, 462-471.	17.5	317
8	Studying Charge Migration Fragmentation of Sodiated Precursor Ions in Collision-Induced Dissociation at the Library Scale. Journal of the American Society for Mass Spectrometry, 2021, 32, 180-186.	2.8	4
9	Chemically informed analyses of metabolomics mass spectrometry data with Qemistree. Nature Chemical Biology, 2021, 17, 146-151.	8.0	73
10	Reply to: Examining microbeâ€“metabolite correlations by linear methods. Nature Methods, 2021, 18, 40-41.	19.0	6
11	A community resource for paired genomic and metabolomic data mining. Nature Chemical Biology, 2021, 17, 363-368.	8.0	81
12	Genomic and Metabolomic Analysis of the Potato Common Scab Pathogen Streptomyces scabiei. ACS Omega, 2021, 6, 11474-11487.	3.5	21
13	Specialized Metabolites from Ribosome Engineered Strains of Streptomyces clavuligerus. Metabolites, 2021, 11, 239.	2.9	13
14	Ion identity molecular networking for mass spectrometry-based metabolomics in the GNPS environment. Nature Communications, 2021, 12, 3832.	12.8	119
15	Chemical Gradients of Plant Substrates in an Atta texana Fungus Garden. MSystems, 2021, 6, e0060121.	3.8	2
16	Nerpa: A Tool for Discovering Biosynthetic Gene Clusters of Bacterial Nonribosomal Peptides. Metabolites, 2021, 11, 693.	2.9	11
17	NPClassifier: A Deep Neural Network-Based Structural Classification Tool for Natural Products. Journal of Natural Products, 2021, 84, 2795-2807.	3.0	131
18	Mass spectrometry searches using MASST. Nature Biotechnology, 2020, 38, 23-26.	17.5	160

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19	Metabolites from Microbes Isolated from the Skin of the Panamanian Rocket Frog Colostethus panamansis (Anura: Dendrobatidae). Metabolites, 2020, 10, 406.	2.9	4
20	Database-independent molecular formula annotation using Gibbs sampling through ZODIAC. Nature Machine Intelligence, 2020, 2, 629-641.	16.0	103
21	Feature-based molecular networking in the GNPS analysis environment. Nature Methods, 2020, 17, 905-908.	19.0	650
22	ReDU: a framework to find and reanalyze public mass spectrometry data. Nature Methods, 2020, 17, 901-904.	19.0	79
23	Reproducible molecular networking of untargeted mass spectrometry data using GNPS. Nature Protocols, 2020, 15, 1954-1991.	12.0	344
24	Feature-Based Molecular Networking Analysis of the Metabolites Produced by In Vitro Solid-State Fermentation Reveals Pathways for the Bioconversion of Epigallocatechin Gallate. Journal of Agricultural and Food Chemistry, 2020, 68, 7995-8007.	5.2	23
25	A Convolutional Neural Network-Based Approach for the Rapid Annotation of Molecularly Diverse Natural Products. Journal of the American Chemical Society, 2020, 142, 4114-4120.	13.7	114
26	Assessing specialized metabolite diversity of Alnus species by a digitized LCâ€“MS/MS data analysis workflow. Phytochemistry, 2020, 173, 112292.	2.9	15
27	MolNetEnhancer: Enhanced Molecular Networks by Integrating Metabolome Mining and Annotation Tools. Metabolites, 2019, 9, 144.	2.9	245
28	Reproducible, interactive, scalable and extensible microbiome data science using QIIME 2. Nature Biotechnology, 2019, 37, 852-857.	17.5	11,167
29	Assessing Specialized Metabolite Diversity in the Cosmopolitan Plant Genus Euphorbia L.. Frontiers in Plant Science, 2019, 10, 846.	3.6	40
30	MetaMiner: A Scalable Peptidogenomics Approach for Discovery of Ribosomal Peptide Natural Products with Blind Modifications from Microbial Communities. Cell Systems, 2019, 9, 600-608.e4.	6.2	46
31	Learning representations of microbeâ€“metabolite interactions. Nature Methods, 2019, 16, 1306-1314.	19.0	184
32	Comparative Genomics and Metabolomics Analyses of Clavulanic Acid-Producing Streptomyces Species Provides Insight Into Specialized Metabolism. Frontiers in Microbiology, 2019, 10, 2550.	3.5	20
33	Identification of Four Amoebicidal Nontoxic Compounds by a Molecular Docking Screen of Naegleria fowleri Sterol Î”8â†’Î”7-Isomerase and Phenotypic Assays. ACS Infectious Diseases, 2019, 5, 2029-2038.	3.8	6
34	Investigation of Premyrsinane and Myrsinane Esters in Euphorbia cupanii and Euphobia pithyusa with MS2LDA and Combinatorial Molecular Network Annotation Propagation. Journal of Natural Products, 2019, 82, 1459-1470.	3.0	24
35	Viscosin-like lipopeptides from frog skin bacteria inhibit Aspergillus fumigatus and Batrachochytrium dendrobatidis detected by imaging mass spectrometry and molecular networking. Scientific Reports, 2019, 9, 3019.	3.3	23
36	Bioactivity-Based Molecular Networking for the Discovery of Drug Leads in Natural Product Bioassay-Guided Fractionation. Journal of Natural Products, 2018, 81, 758-767.	3.0	237

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37	3D molecular cartography using LCâ€“MS facilitated by Optimus and 'ili software. Nature Protocols, 2018, 13, 134-154.	12.0	85
38	Niche partitioning of a pathogenic microbiome driven by chemical gradients. Science Advances, 2018, 4, eaau1908.	10.3	40
39	Dereplication of microbial metabolites through database search of mass spectra. Nature Communications, 2018, 9, 4035.	12.8	220
40	Propagating annotations of molecular networks using in silico fragmentation. PLoS Computational Biology, 2018, 14, e1006089.	3.2	242
41	Before platelets: the production of platelet-activating factor during growth and stress in a basal marine organism. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20181307.	2.6	20
42	Evaluation of Jatrophane Esters from Euphorbia spp. as Modulators of Candida albicans Multidrug Transporters. Journal of Natural Products, 2017, 80, 479-487.	3.0	39
43	Bioactive Natural Products Prioritization Using Massive Multi-informational Molecular Networks. ACS Chemical Biology, 2017, 12, 2644-2651.	3.4	112
44	Environmentally Friendly Procedure Based on Supercritical Fluid Chromatography and Tandem Mass Spectrometry Molecular Networking for the Discovery of Potent Antiviral Compounds from Euphorbia semiperfoliata. Journal of Natural Products, 2017, 80, 2620-2629.	3.0	51
45	Significance estimation for large scale metabolomics annotations by spectral matching. Nature Communications, 2017, 8, 1494.	12.8	128
46	Isolation of Premyrsinane, Myrsinane, and Tigliane Diterpenoids from Euphorbia pithyusa Using a Chikungunya Virus Cell-Based Assay and Analogue Annotation by Molecular Networking. Journal of Natural Products, 2017, 80, 2051-2059.	3.0	37
47	Molecular Networking As a Drug Discovery, Drug Metabolism, and Precision Medicine Strategy. Trends in Pharmacological Sciences, 2017, 38, 143-154.	8.7	250
48	Dereplication of peptidic natural products through database search of mass spectra. Nature Chemical Biology, 2017, 13, 30-37.	8.0	184
49	Antibiotic discovery is a walk in the park. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14477-14479.	7.1	24
50	Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking. Nature Biotechnology, 2016, 34, 828-837.	17.5	2,802
51	Euphorbia dendroides Latex as a Source of Jatrophane Esters: Isolation, Structural Analysis, Conformational Study, and Anti-CHIKV Activity. Journal of Natural Products, 2016, 79, 2873-2882.	3.0	52