

Louis-Felix Nothias

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

19,469
citations

136885

32
h-index

168321

53
g-index

70
all docs

70
docs citations

70
times ranked

20892
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	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
3	Feature-based molecular networking in the GNPS analysis environment. <i>Nature Methods</i> , 2020, 17, 905-908.	9.0	650
4	Reproducible molecular networking of untargeted mass spectrometry data using GNPS. <i>Nature Protocols</i> , 2020, 15, 1954-1991.	5.5	344
5	Systematic classification of unknown metabolites using high-resolution fragmentation mass spectra. <i>Nature Biotechnology</i> , 2021, 39, 462-471.	9.4	317
6	Molecular Networking As a Drug Discovery, Drug Metabolism, and Precision Medicine Strategy. <i>Trends in Pharmacological Sciences</i> , 2017, 38, 143-154.	4.0	250
7	MolNetEnhancer: Enhanced Molecular Networks by Integrating Metabolome Mining and Annotation Tools. <i>Metabolites</i> , 2019, 9, 144.	1.3	245
8	Propagating annotations of molecular networks using in silico fragmentation. <i>PLoS Computational Biology</i> , 2018, 14, e1006089.	1.5	242
9	Bioactivity-Based Molecular Networking for the Discovery of Drug Leads in Natural Product Bioassay-Guided Fractionation. <i>Journal of Natural Products</i> , 2018, 81, 758-767.	1.5	237
10	Dereplication of microbial metabolites through database search of mass spectra. <i>Nature Communications</i> , 2018, 9, 4035.	5.8	220
11	Dereplication of peptidic natural products through database search of mass spectra. <i>Nature Chemical Biology</i> , 2017, 13, 30-37.	3.9	184
12	Learning representations of microbe-metabolite interactions. <i>Nature Methods</i> , 2019, 16, 1306-1314.	9.0	184
13	Mass spectrometry searches using MASST. <i>Nature Biotechnology</i> , 2020, 38, 23-26.	9.4	160
14	NPClassifier: A Deep Neural Network-Based Structural Classification Tool for Natural Products. <i>Journal of Natural Products</i> , 2021, 84, 2795-2807.	1.5	131
15	Significance estimation for large scale metabolomics annotations by spectral matching. <i>Nature Communications</i> , 2017, 8, 1494.	5.8	128
16	Ion identity molecular networking for mass spectrometry-based metabolomics in the GNPS environment. <i>Nature Communications</i> , 2021, 12, 3832.	5.8	119
17	A Convolutional Neural Network-Based Approach for the Rapid Annotation of Molecularly Diverse Natural Products. <i>Journal of the American Chemical Society</i> , 2020, 142, 4114-4120.	6.6	114
18	Bioactive Natural Products Prioritization Using Massive Multi-informational Molecular Networks. <i>ACS Chemical Biology</i> , 2017, 12, 2644-2651.	1.6	112

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19	Database-independent molecular formula annotation using Gibbs sampling through ZODIAC. <i>Nature Machine Intelligence</i> , 2020, 2, 629-641.	8.3	103
20	High-confidence structural annotation of metabolites absent from spectral libraries. <i>Nature Biotechnology</i> , 2022, 40, 411-421.	9.4	100
21	3D molecular cartography using LC-MS facilitated by Optimus and 'ili software. <i>Nature Protocols</i> , 2018, 13, 134-154.	5.5	85
22	A community resource for paired genomic and metabolomic data mining. <i>Nature Chemical Biology</i> , 2021, 17, 363-368.	3.9	81
23	ReDU: a framework to find and reanalyze public mass spectrometry data. <i>Nature Methods</i> , 2020, 17, 901-904.	9.0	79
24	Auto-deconvolution and molecular networking of gas chromatography-mass spectrometry data. <i>Nature Biotechnology</i> , 2021, 39, 169-173.	9.4	78
25	Chemically informed analyses of metabolomics mass spectrometry data with Qemistree. <i>Nature Chemical Biology</i> , 2021, 17, 146-151.	3.9	73
26	<i>Euphorbia dendroides</i> Latex as a Source of Jatrophanes Esters: Isolation, Structural Analysis, Conformational Study, and Anti-CHIKV Activity. <i>Journal of Natural Products</i> , 2016, 79, 2873-2882.	1.5	52
27	Environmentally Friendly Procedure Based on Supercritical Fluid Chromatography and Tandem Mass Spectrometry Molecular Networking for the Discovery of Potent Antiviral Compounds from <i>Euphorbia semiperfoliata</i> . <i>Journal of Natural Products</i> , 2017, 80, 2620-2629.	1.5	51
28	MetaMiner: A Scalable Peptidogenomics Approach for Discovery of Ribosomal Peptide Natural Products with Blind Modifications from Microbial Communities. <i>Cell Systems</i> , 2019, 9, 600-608.e4.	2.9	46
29	Niche partitioning of a pathogenic microbiome driven by chemical gradients. <i>Science Advances</i> , 2018, 4, eaau1908.	4.7	40
30	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
31	Evaluation of Jatrophanes Esters from <i>Euphorbia</i> spp. as Modulators of <i>Candida albicans</i> Multidrug Transporters. <i>Journal of Natural Products</i> , 2017, 80, 479-487.	1.5	39
32	Isolation of Premyrsinane, Myrsinane, and Tigliane Diterpenoids from <i>Euphorbia pithyusa</i> Using a Chikungunya Virus Cell-Based Assay and Analogue Annotation by Molecular Networking. <i>Journal of Natural Products</i> , 2017, 80, 2051-2059.	1.5	37
33	Distinguishing the molecular diversity, nutrient content, and energetic potential of exometabolomes produced by macroalgae and reef-building corals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	28
34	Antibiotic discovery is a walk in the park. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14477-14479.	3.3	24
35	Investigation of Premyrsinane and Myrsinane Esters in <i>Euphorbia cupanii</i> and <i>Euphorbia pithyusa</i> with MS2LDA and Combinatorial Molecular Network Annotation Propagation. <i>Journal of Natural Products</i> , 2019, 82, 1459-1470.	1.5	24
36	Viscosin-like lipopeptides from frog skin bacteria inhibit <i>Aspergillus fumigatus</i> and <i>Batrachochytrium dendrobatidis</i> detected by imaging mass spectrometry and molecular networking. <i>Scientific Reports</i> , 2019, 9, 3019.	1.6	23

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37	Feature-Based Molecular Networking Analysis of the Metabolites Produced by <i>In Vitro</i> Solid-State Fermentation Reveals Pathways for the Bioconversion of Epigallocatechin Gallate. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 7995-8007.	2.4	23
38	Genomic and Metabolomic Analysis of the Potato Common Scab Pathogen <i>Streptomyces scabiei</i> . <i>ACS Omega</i> , 2021, 6, 11474-11487.	1.6	21
39	Before platelets: the production of platelet-activating factor during growth and stress in a basal marine organism. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181307.	1.2	20
40	Comparative Genomics and Metabolomics Analyses of Clavulanic Acid-Producing <i>Streptomyces</i> Species Provides Insight Into Specialized Metabolism. <i>Frontiers in Microbiology</i> , 2019, 10, 2550.	1.5	20
41	Tandem Mass Spectrometry Molecular Networking as a Powerful and Efficient Tool for Drug Metabolism Studies. <i>Analytical Chemistry</i> , 2022, 94, 1456-1464.	3.2	17
42	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
43	Specialized Metabolites from Ribosome Engineered Strains of <i>Streptomyces clavuligerus</i> . <i>Metabolites</i> , 2021, 11, 239.	1.3	13
44	Nerpa: A Tool for Discovering Biosynthetic Gene Clusters of Bacterial Nonribosomal Peptides. <i>Metabolites</i> , 2021, 11, 693.	1.3	11
45	Comparative metabolomic analysis reveals shared and unique chemical interactions in sponge holobionts. <i>Microbiome</i> , 2022, 10, 22.	4.9	11
46	MEMO: Mass Spectrometry-Based Sample Vectorization to Explore Chemodiverse Datasets. <i>Frontiers in Bioinformatics</i> , 2022, 2, .	1.0	7
47	Identification of Four Amoebicidal Nontoxic Compounds by a Molecular Docking Screen of <i>Naegleria fowleri</i> Sterol 7-Isomerase and Phenotypic Assays. <i>ACS Infectious Diseases</i> , 2019, 5, 2029-2038.	1.8	6
48	Reply to: Examining microbe-metabolite correlations by linear methods. <i>Nature Methods</i> , 2021, 18, 40-41.	9.0	6
49	Metabolites from Microbes Isolated from the Skin of the Panamanian Rocket Frog <i>Colostethus panamansis</i> (Anura: Dendrobatidae). <i>Metabolites</i> , 2020, 10, 406.	1.3	4
50	Studying Charge Migration Fragmentation of Sodiated Precursor Ions in Collision-Induced Dissociation at the Library Scale. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 180-186.	1.2	4
51	Chemical Gradients of Plant Substrates in an <i>Atta texana</i> Fungus Garden. <i>MSystems</i> , 2021, 6, e0060121.	1.7	2