

Pieter C Dorrestein

List of Publications by Year in descending order

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287
papers

40,502
citations

6613

79
h-index

3579

181
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344
all docs

344
docs citations

344
times ranked

38564
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.	17.5	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.	17.5	2,802
3	Best practices for analysing microbiomes. <i>Nature Reviews Microbiology</i> , 2018, 16, 410-422.	28.6	1,138
4	SIRIUS 4: a rapid tool for turning tandem mass spectra into metabolite structure information. <i>Nature Methods</i> , 2019, 16, 299-302.	19.0	822
5	Mass spectral molecular networking of living microbial colonies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1743-52.	7.1	804
6	Antimicrobials from human skin commensal bacteria protect against <i>Staphylococcus aureus</i> and are deficient in atopic dermatitis. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	744
7	Minimum Information about a Biosynthetic Gene cluster. <i>Nature Chemical Biology</i> , 2015, 11, 625-631.	8.0	715
8	Feature-based molecular networking in the GNPS analysis environment. <i>Nature Methods</i> , 2020, 17, 905-908.	19.0	650
9	American Gut: an Open Platform for Citizen Science Microbiome Research. <i>MSystems</i> , 2018, 3, .	3.8	604
10	Microbiome-wide association studies link dynamic microbial consortia to disease. <i>Nature</i> , 2016, 535, 94-103.	27.8	595
11	Molecular Networking as a Dereplication Strategy. <i>Journal of Natural Products</i> , 2013, 76, 1686-1699.	3.0	475
12	Qiita: rapid, web-enabled microbiome meta-analysis. <i>Nature Methods</i> , 2018, 15, 796-798.	19.0	459
13	Specialized Metabolites from the Microbiome in Health and Disease. <i>Cell Metabolism</i> , 2014, 20, 719-730.	16.2	454
14	Cultivation of a human-associated TM7 phylotype reveals a reduced genome and epibiotic parasitic lifestyle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 244-249.	7.1	405
15	Inflammation-induced IgA+ cells dismantle anti-liver cancer immunity. <i>Nature</i> , 2017, 551, 340-345.	27.8	396
16	Illuminating the dark matter in metabolomics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12549-12550.	7.1	387
17	Reproducible molecular networking of untargeted mass spectrometry data using GNPS. <i>Nature Protocols</i> , 2020, 15, 1954-1991.	12.0	344
18	A mass spectrometry-guided genome mining approach for natural product peptidogenomics. <i>Nature Chemical Biology</i> , 2011, 7, 794-802.	8.0	329

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19	Systematic classification of unknown metabolites using high-resolution fragmentation mass spectra. <i>Nature Biotechnology</i> , 2021, 39, 462-471.	17.5	317
20	Global chemical effects of the microbiome include new bile-acid conjugations. <i>Nature</i> , 2020, 579, 123-129.	27.8	316
21	Molecular cartography of the human skin surface in 3D. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2120-9.	7.1	288
22	Balance Trees Reveal Microbial Niche Differentiation. <i>MSystems</i> , 2017, 2, .	3.8	284
23	The Natural Products Atlas: An Open Access Knowledge Base for Microbial Natural Products Discovery. <i>ACS Central Science</i> , 2019, 5, 1824-1833.	11.3	258
24	Finding the Missing Links among Metabolites, Microbes, and the Host. <i>Immunity</i> , 2014, 40, 824-832.	14.3	256
25	Deciphering ocean carbon in a changing world. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3143-3151.	7.1	253
26	MS/MS networking guided analysis of molecule and gene cluster families. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2611-20.	7.1	250
27	Molecular Networking As a Drug Discovery, Drug Metabolism, and Precision Medicine Strategy. <i>Trends in Pharmacological Sciences</i> , 2017, 38, 143-154.	8.7	250
28	MolNetEnhancer: Enhanced Molecular Networks by Integrating Metabolome Mining and Annotation Tools. <i>Metabolites</i> , 2019, 9, 144.	2.9	245
29	Propagating annotations of molecular networks using in silico fragmentation. <i>PLoS Computational Biology</i> , 2018, 14, e1006089.	3.2	242
30	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.	3.0	237
31	The Intestinal Metabolome: An Intersection Between Microbiota and Host. <i>Gastroenterology</i> , 2014, 146, 1470-1476.	1.3	227
32	Translating metabolic exchange with imaging mass spectrometry. <i>Nature Chemical Biology</i> , 2009, 5, 885-887.	8.0	220
33	Interkingdom metabolic transformations captured by microbial imaging mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13811-13816.	7.1	220
34	Dereplication of microbial metabolites through database search of mass spectra. <i>Nature Communications</i> , 2018, 9, 4035.	12.8	220
35	Microbial metabolic exchange – the chemotype-to-phenotype link. <i>Nature Chemical Biology</i> , 2012, 8, 26-35.	8.0	199
36	A unified initiative to harness Earth's microbiomes. <i>Science</i> , 2015, 350, 507-508.	12.6	195

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37	Microbiome 101: Studying, Analyzing, and Interpreting Gut Microbiome Data for Clinicians. <i>Clinical Gastroenterology and Hepatology</i> , 2019, 17, 218-230.	4.4	187
38	Dereplication of peptidic natural products through database search of mass spectra. <i>Nature Chemical Biology</i> , 2017, 13, 30-37.	8.0	184
39	Learning representations of microbe-metabolite interactions. <i>Nature Methods</i> , 2019, 16, 1306-1314.	19.0	184
40	Imaging mass spectrometry of intraspecies metabolic exchange revealed the cannibalistic factors of <i>Bacillus subtilis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16286-16290.	7.1	179
41	Mass spectrometry of natural products: current, emerging and future technologies. <i>Natural Product Reports</i> , 2014, 31, 718.	10.3	165
42	Mass spectrometry searches using MASST. <i>Nature Biotechnology</i> , 2020, 38, 23-26.	17.5	160
43	Combining Mass Spectrometric Metabolic Profiling with Genomic Analysis: A Powerful Approach for Discovering Natural Products from Cyanobacteria. <i>Journal of Natural Products</i> , 2015, 78, 1671-1682.	3.0	156
44	Bacterial Biosynthesis and Maturation of the Didemnin Anti-cancer Agents. <i>Journal of the American Chemical Society</i> , 2012, 134, 8625-8632.	13.7	155
45	Molecular Networking and Pattern-Based Genome Mining Improves Discovery of Biosynthetic Gene Clusters and their Products from <i>Salinispora</i> Species. <i>Chemistry and Biology</i> , 2015, 22, 460-471.	6.0	150
46	Mass spectrometry-based metabolomics in microbiome investigations. <i>Nature Reviews Microbiology</i> , 2022, 20, 143-160.	28.6	148
47	Global chemical analysis of biology by mass spectrometry. <i>Nature Reviews Chemistry</i> , 2017, 1, .	30.2	146
48	Primer on Agar-Based Microbial Imaging Mass Spectrometry. <i>Journal of Bacteriology</i> , 2012, 194, 6023-6028.	2.2	133
49	Automated Genome Mining of Ribosomal Peptide Natural Products. <i>ACS Chemical Biology</i> , 2014, 9, 1545-1551.	3.4	133
50	NPClassifier: A Deep Neural Network-Based Structural Classification Tool for Natural Products. <i>Journal of Natural Products</i> , 2021, 84, 2795-2807.	3.0	131
51	Significance estimation for large scale metabolomics annotations by spectral matching. <i>Nature Communications</i> , 2017, 8, 1494.	12.8	128
52	Proteasomal Protein Degradation in Mycobacteria Is Dependent upon a Prokaryotic Ubiquitin-like Protein. <i>Journal of Biological Chemistry</i> , 2009, 284, 3069-3075.	3.4	126
53	Heavy metal exposure causes changes in the metabolic health-associated gut microbiome and metabolites. <i>Environment International</i> , 2019, 126, 454-467.	10.0	125
54	Indexing the <i>Pseudomonas</i> specialized metabolome enabled the discovery of poaeamide B and the bananamides. <i>Nature Microbiology</i> , 2017, 2, 16197.	13.3	121

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55	Ion identity molecular networking for mass spectrometry-based metabolomics in the GNPS environment. <i>Nature Communications</i> , 2021, 12, 3832.	12.8	119
56	Linking genomics and metabolomics to chart specialized metabolic diversity. <i>Chemical Society Reviews</i> , 2020, 49, 3297-3314.	38.1	114
57	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.	13.7	114
58	Emerging Priorities for Microbiome Research. <i>Frontiers in Microbiology</i> , 2020, 11, 136.	3.5	113
59	Three-Dimensional Microbiome and Metabolome Cartography of a Diseased Human Lung. <i>Cell Host and Microbe</i> , 2017, 22, 705-716.e4.	11.0	111
60	Multi-omics analyses of the ulcerative colitis gut microbiome link <i>Bacteroides vulgatus</i> proteases with disease severity. <i>Nature Microbiology</i> , 2022, 7, 262-276.	13.3	110
61	Visualizing the spatial distribution of secondary metabolites produced by marine cyanobacteria and sponges via MALDI-TOF imaging. <i>Molecular BioSystems</i> , 2008, 4, 562.	2.9	109
62	The evolving field of imaging mass spectrometry and its impact on future biological research. <i>Journal of Mass Spectrometry</i> , 2011, 46, 209-222.	1.6	109
63	Microbial competition between <i>Bacillus subtilis</i> and <i>Staphylococcus aureus</i> monitored by imaging mass spectrometry. <i>Microbiology (United Kingdom)</i> , 2011, 157, 2485-2492.	1.8	108
64	<i>Ralstonia solanacearum</i> lipopeptide induces chlamydospore development in fungi and facilitates bacterial entry into fungal tissues. <i>ISME Journal</i> , 2016, 10, 2317-2330.	9.8	108
65	Prioritizing Natural Product Diversity in a Collection of 146 Bacterial Strains Based on Growth and Extraction Protocols. <i>Journal of Natural Products</i> , 2017, 80, 588-597.	3.0	105
66	Comparative genomics and metabolic profiling of the genus <i>Lysobacter</i> . <i>BMC Genomics</i> , 2015, 16, 991.	2.8	103
67	Database-independent molecular formula annotation using Gibbs sampling through ZODIAC. <i>Nature Machine Intelligence</i> , 2020, 2, 629-641.	16.0	103
68	The extracellular matrix protects <i>Bacillus subtilis</i> colonies from <i>Pseudomonas</i> invasion and modulates plant co-colonization. <i>Nature Communications</i> , 2019, 10, 1919.	12.8	102
69	Glycogenomics as a mass spectrometry-guided genome-mining method for microbial glycosylated molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E4407-16.	7.1	101
70	The impact of skin care products on skin chemistry and microbiome dynamics. <i>BMC Biology</i> , 2019, 17, 47.	3.8	101
71	High-confidence structural annotation of metabolites absent from spectral libraries. <i>Nature Biotechnology</i> , 2022, 40, 411-421.	17.5	100
72	Thiopeptide antibiotics stimulate biofilm formation in <i>Bacillus subtilis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3086-3091.	7.1	98

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73	Targeted Capture and Heterologous Expression of the <i>Pseudoalteromonas</i> Alterochromide Gene Cluster in <i>Escherichia coli</i> Represents a Promising Natural Product Exploratory Platform. ACS Synthetic Biology, 2015, 4, 414-420.	3.8	98
74	Intermittent Hypoxia and Hypercapnia, a Hallmark of Obstructive Sleep Apnea, Alters the Gut Microbiome and Metabolome. MSysystems, 2018, 3, .	3.8	96
75	Convergent evolution of pain-inducing defensive venom components in spitting cobras. Science, 2021, 371, 386-390.	12.6	96
76	High-Resolution Liquid Chromatography Tandem Mass Spectrometry Enables Large Scale Molecular Characterization of Dissolved Organic Matter. Frontiers in Marine Science, 2017, 4, .	2.5	94
77	Mass Spectrometry Imaging Reveals Elevated Glomerular ATP/AMP in Diabetes/obesity and Identifies Sphingomyelin as a Possible Mediator. EBioMedicine, 2016, 7, 121-134.	6.1	93
78	Microbiome Tools for Forensic Science. Trends in Biotechnology, 2017, 35, 814-823.	9.3	93
79	Enzymatic resistance to the lipopeptide surfactin as identified through imaging mass spectrometry of bacterial competition. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13082-13087.	7.1	92
80	Genome mining and metabolic profiling of the rhizosphere bacterium <i>Pseudomonas</i> sp. SH-C52 for antimicrobial compounds. Frontiers in Microbiology, 2015, 6, 693.	3.5	91
81	Mass spectral similarity for untargeted metabolomics data analysis of complex mixtures. International Journal of Mass Spectrometry, 2015, 377, 719-727.	1.5	90
82	Evolution of metabolic divergence in <i>Pseudomonas aeruginosa</i> during long-term infection facilitates a proto-cooperative interspecies interaction. ISME Journal, 2016, 10, 1323-1336.	9.8	89
83	Microbial, host and xenobiotic diversity in the cystic fibrosis sputum metabolome. ISME Journal, 2016, 10, 1483-1498.	9.8	88
84	3D molecular cartography using LC-MS facilitated by Optimus and 'ili software. Nature Protocols, 2018, 13, 134-154.	12.0	85
85	Home chemical and microbial transitions across urbanization. Nature Microbiology, 2020, 5, 108-115.	13.3	83
86	A <i>Cutibacterium acnes</i> antibiotic modulates human skin microbiota composition in hair follicles. Science Translational Medicine, 2020, 12, .	12.4	83
87	Pep2Path: Automated Mass Spectrometry-Guided Genome Mining of Peptidic Natural Products. PLoS Computational Biology, 2014, 10, e1003822.	3.2	81
88	NRPquest: Coupling Mass Spectrometry and Genome Mining for Nonribosomal Peptide Discovery. Journal of Natural Products, 2014, 77, 1902-1909.	3.0	81
89	Consumption of Fermented Foods Is Associated with Systematic Differences in the Gut Microbiome and Metabolome. MSysystems, 2020, 5, .	3.8	81
90	A community resource for paired genomic and metabolomic data mining. Nature Chemical Biology, 2021, 17, 363-368.	8.0	81

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91	Biochemical Establishment and Characterization of EncM TM s Flavin-N5-oxide Cofactor. Journal of the American Chemical Society, 2015, 137, 8078-8085.	13.7	80
92	The medical threat of mamba envenoming in sub-Saharan Africa revealed by genus-wide analysis of venom composition, toxicity and antivenomics profiling of available antivenoms. Journal of Proteomics, 2018, 172, 173-189.	2.4	80
93	Imaging Mass Spectrometry and Genome Mining via Short Sequence Tagging Identified the Anti-Infective Agent Arylomycin in <i>Streptomyces roseosporus</i> . Journal of the American Chemical Society, 2011, 133, 18010-18013.	13.7	79
94	The spectral networks paradigm in high throughput mass spectrometry. Molecular BioSystems, 2012, 8, 2535.	2.9	79
95	Perspective: Dietary Biomarkers of Intake and Exposure—Exploration with Omics Approaches. Advances in Nutrition, 2020, 11, 200-215.	6.4	79
96	ReDU: a framework to find and reanalyze public mass spectrometry data. Nature Methods, 2020, 17, 901-904.	19.0	79
97	Auto-deconvolution and molecular networking of gas chromatography–mass spectrometry data. Nature Biotechnology, 2021, 39, 169-173.	17.5	78
98	From single cells to our planet—recent advances in using mass spectrometry for spatially resolved metabolomics. Current Opinion in Chemical Biology, 2017, 36, 24-31.	6.1	75
99	Impacts of the Human Gut Microbiome on Therapeutics. Annual Review of Pharmacology and Toxicology, 2018, 58, 253-270.	9.4	74
100	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
101	Chemically informed analyses of metabolomics mass spectrometry data with Qemistree. Nature Chemical Biology, 2021, 17, 146-151.	8.0	73
102	MS/MS-based networking and peptidogenomics guided genome mining revealed the stenothricin gene cluster in <i>Streptomyces roseosporus</i> . Journal of Antibiotics, 2014, 67, 99-104.	2.0	64
103	Meta-omics uncover temporal regulation of pathways across oral microbiome genera during <i>in vitro</i> sugar metabolism. ISME Journal, 2015, 9, 2605-2619.	9.8	63
104	Visualizing life with ambient mass spectrometry. Current Opinion in Biotechnology, 2015, 31, 24-34.	6.6	62
105	Coupling Targeted and Untargeted Mass Spectrometry for Metabolome-Microbiome-Wide Association Studies of Human Fecal Samples. Analytical Chemistry, 2017, 89, 7549-7559.	6.5	62
106	Emerging mass spectrometry techniques for the direct analysis of microbial colonies. Current Opinion in Microbiology, 2014, 19, 120-129.	5.1	61
107	SPLASH, a hashed identifier for mass spectra. Nature Biotechnology, 2016, 34, 1099-1101.	17.5	61
108	Integrating Molecular Networking and Biological Assays To Target the Isolation of a Cytotoxic Cyclic Octapeptide, Samoamide A, from an American Samoan Marine Cyanobacterium. Journal of Natural Products, 2017, 80, 625-633.	3.0	60

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109	Imaging mass spectrometry and MS/MS molecular networking reveals chemical interactions among cuticular bacteria and pathogenic fungi associated with fungus-growing ants. <i>Scientific Reports</i> , 2017, 7, 5604.	3.3	60
110	Bioprospecting Portuguese Atlantic coast cyanobacteria for bioactive secondary metabolites reveals untapped chemodiversity. <i>Algal Research</i> , 2015, 9, 218-226.	4.6	59
111	Natural products as mediators of disease. <i>Natural Product Reports</i> , 2017, 34, 194-219.	10.3	59
112	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.	5.7	59
113	Quantitative molecular networking to profile marine cyanobacterial metabolomes. <i>Journal of Antibiotics</i> , 2014, 67, 105-112.	2.0	58
114	Mortality Risk Profiling of <i>Staphylococcus aureus</i> Bacteremia by Multi-omic Serum Analysis Reveals Early Predictive and Pathogenic Signatures. <i>Cell</i> , 2020, 182, 1311-1327.e14.	28.9	58
115	Arginine methylation of HSP70 regulates retinoid acid-mediated <i>RARα2</i> gene activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3327-36.	7.1	57
116	Meta-mass shift chemical profiling of metabolomes from coral reefs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11685-11690.	7.1	57
117	Repeated sleep disruption in mice leads to persistent shifts in the fecal microbiome and metabolome. <i>PLoS ONE</i> , 2020, 15, e0229001.	2.5	56
118	Metabolomics of reef benthic interactions reveals a bioactive lipid involved in coral defence. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160469.	2.6	55
119	Lifestyle chemistries from phones for individual profiling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E7645-E7654.	7.1	55
120	An Integrated Metabolomic and Genomic Mining Workflow To Uncover the Biosynthetic Potential of Bacteria. <i>MSystems</i> , 2016, 1, .	3.8	55
121	Imaging Mass Spectrometry of a Coral Microbe Interaction with Fungi. <i>Journal of Chemical Ecology</i> , 2013, 39, 1045-1054.	1.8	53
122	Benchmark datasets for 3D MALDI- and DESI-imaging mass spectrometry. <i>GigaScience</i> , 2015, 4, 20.	6.4	53
123	From Sample to Multi-Omics Conclusions in under 48 Hours. <i>MSystems</i> , 2016, 1, .	3.8	53
124	Neutrophilic proteolysis in the cystic fibrosis lung correlates with a pathogenic microbiome. <i>Microbiome</i> , 2019, 7, 23.	11.1	53
125	Application of bacterial cytological profiling to crude natural product extracts reveals the antibacterial arsenal of <i>Bacillus subtilis</i> . <i>Journal of Antibiotics</i> , 2016, 69, 353-361.	2.0	52
126	Untargeted mass spectrometry-based metabolomics approach unveils molecular changes in raw and processed foods and beverages. <i>Food Chemistry</i> , 2020, 302, 125290.	8.2	52

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127	Molecular and chemical dialogues in bacteria-protozoa interactions. <i>Scientific Reports</i> , 2015, 5, 12837.	3.3	51
128	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.	3.0	51
129	A multiomic analysis of in situ coral-turf algal interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13588-13595.	7.1	48
130	Multi-omics Analysis of Periodontal Pocket Microbial Communities Pre- and Posttreatment. <i>MSystems</i> , 2017, 2, .	3.8	47
131	Transcriptomics-guided bottom-up and top-down venomomics of neonate and adult specimens of the arboreal rear-fanged Brown Treesnake, <i>Boiga irregularis</i> , from Guam. <i>Journal of Proteomics</i> , 2018, 174, 71-84.	2.4	47
132	High-Resolution Longitudinal Dynamics of the Cystic Fibrosis Sputum Microbiome and Metabolome through Antibiotic Therapy. <i>MSystems</i> , 2020, 5, .	3.8	47
133	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.	6.2	46
134	Predicting proteome allocation, overflow metabolism, and metal requirements in a model acetogen. <i>PLoS Computational Biology</i> , 2019, 15, e1006848.	3.2	46
135	Lugdunomycin, an Angucycline-Derived Molecule with Unprecedented Chemical Architecture. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2809-2814.	13.8	46
136	Dietary prebiotics alter novel microbial dependent fecal metabolites that improve sleep. <i>Scientific Reports</i> , 2020, 10, 3848.	3.3	46
137	Metabolomics of pulmonary exacerbations reveals the personalized nature of cystic fibrosis disease. <i>PeerJ</i> , 2016, 4, e2174.	2.0	45
138	Mass Spectrometry-Based Visualization of Molecules Associated with Human Habitats. <i>Analytical Chemistry</i> , 2016, 88, 10775-10784.	6.5	44
139	Competitive strategies differentiate closely related species of marine actinobacteria. <i>ISME Journal</i> , 2016, 10, 478-490.	9.8	44
140	Targeted Isolation of Neuroprotective Dicoumaroyl Neolignans and Lignans from <i>Sageretia theezans</i> Using <i>in Silico</i> Molecular Network Annotation Propagation-Based Dereplication. <i>Journal of Natural Products</i> , 2018, 81, 1819-1828.	3.0	44
141	A metabolomics guided exploration of marine natural product chemical space. <i>Metabolomics</i> , 2016, 12, 1.	3.0	43
142	Expanding the Described Metabolome of the Marine Cyanobacterium <i>Moorea producens</i> JHB through Orthogonal Natural Products Workflows. <i>PLoS ONE</i> , 2015, 10, e0133297.	2.5	40
143	Niche partitioning of a pathogenic microbiome driven by chemical gradients. <i>Science Advances</i> , 2018, 4, eaau1908.	10.3	40
144	Assessing Specialized Metabolite Diversity in the Cosmopolitan Plant Genus <i>Euphorbia</i> L.. <i>Frontiers in Plant Science</i> , 2019, 10, 846.	3.6	40

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145	Assessment of the microbiome during bacteriophage therapy in combination with systemic antibiotics to treat a case of staphylococcal device infection. <i>Microbiome</i> , 2021, 9, 92.	11.1	40
146	Multiplex De Novo Sequencing of Peptide Antibiotics. <i>Journal of Computational Biology</i> , 2011, 18, 1371-1381.	1.6	39
147	Observing the invisible through imaging mass spectrometry, a window into the metabolic exchange patterns of microbes. <i>Journal of Proteomics</i> , 2012, 75, 5069-5076.	2.4	39
148	Mass spectrometry tools and workflows for revealing microbial chemistry. <i>Analyst</i> , 2015, 140, 4949-4966.	3.5	39
149	Role of secondary metabolites in the interaction between <i>Pseudomonas fluorescens</i> and soil microorganisms under iron-limited conditions. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw107.	2.7	39
150	A Genomic Toolkit for the Mechanistic Dissection of Intractable Human Gut Bacteria. <i>Cell Host and Microbe</i> , 2020, 27, 1001-1013.e9.	11.0	39
151	Experimental Chagas disease-induced perturbations of the fecal microbiome and metabolome. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006344.	3.0	39
152	Advancements in capturing and mining mass spectrometry data are transforming natural products research. <i>Natural Product Reports</i> , 2021, 38, 2066-2082.	10.3	38
153	Sequencing cyclic peptides by multistage mass spectrometry. <i>Proteomics</i> , 2011, 11, 3642-3650.	2.2	37
154	Molecular Networking: A Useful Tool for the Identification of New Psychoactive Substances in Seizures by LC-MS/MS. <i>Frontiers in Chemistry</i> , 2020, 8, 572952.	3.6	37
155	Diversity of Aquatic <i>Pseudomonas</i> Species and Their Activity against the Fish Pathogenic Oomycete <i>Saprolegnia</i> . <i>PLoS ONE</i> , 2015, 10, e0136241.	2.5	36
156	Homogeneous Matrix Deposition on Dried Agar for MALDI Imaging Mass Spectrometry of Microbial Cultures. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1959-1962.	2.8	36
157	Spatial Molecular Architecture of the Microbial Community of a <i>Peltigera</i> Lichen. <i>MSystems</i> , 2016, 1, .	3.8	36
158	EMPress Enables Tree-Guided, Interactive, and Exploratory Analyses of Multi-omic Data Sets. <i>MSystems</i> , 2021, 6, .	3.8	36
159	Mass Spectrometry-Based Chemical Cartography of a Cardiac Parasitic Infection. <i>Analytical Chemistry</i> , 2017, 89, 10414-10421.	6.5	35
160	Siderophore-mediated zinc acquisition enhances enterobacterial colonization of the inflamed gut. <i>Nature Communications</i> , 2021, 12, 7016.	12.8	35
161	GNPS Dashboard: collaborative exploration of mass spectrometry data in the web browser. <i>Nature Methods</i> , 2022, 19, 134-136.	19.0	35
162	$\hat{1}\pm, \hat{1}^2 \hat{a}^{\dagger} \hat{1}^2, \hat{1}^3$ double bond migration in coralopyronin A biosynthesis. <i>Chemical Science</i> , 2013, 4, 4175.	7.4	34

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