

Mingxun Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

8,872

citations

29

h-index

79

g-index

79

ext. papers

15,090

ext. citations

16.6

avg, IF

5.06

L-index

#	Paper	IF	Citations
62	Tandem Mass Spectrometry Molecular Networking as a Powerful and Efficient Tool for Drug Metabolism Studies.. <i>Analytical Chemistry</i> , 2022 ,	7.8	3
61	foodMASST a mass spectrometry search tool for foods and beverages.. <i>Npj Science of Food</i> , 2022 , 6, 22	6.3	0
60	SIMILE enables alignment of tandem mass spectra with statistical significance.. <i>Nature Communications</i> , 2022 , 13, 2510	17.4	0
59	GNPS Dashboard: collaborative exploration of mass spectrometry data in the web browser. <i>Nature Methods</i> , 2021 ,	21.6	5
58	A proteomics sample metadata representation for multiomics integration and big data analysis. <i>Nature Communications</i> , 2021 , 12, 5854	17.4	7
57	NPClassifier: A Deep Neural Network-Based Structural Classification Tool for Natural Products. <i>Journal of Natural Products</i> , 2021 , 84, 2795-2807	4.9	21
56	Non-targeted tandem mass spectrometry enables the visualization of organic matter chemotype shifts in coastal seawater. <i>Chemosphere</i> , 2021 , 271, 129450	8.4	14
55	Ion identity molecular networking for mass spectrometry-based metabolomics in the GNPS environment. <i>Nature Communications</i> , 2021 , 12, 3832	17.4	22
54	Quick-start infrastructure for untargeted metabolomics analysis in GNPS. <i>Nature Metabolism</i> , 2021 , 3, 880-882	14.6	4
53	Auto-deconvolution and molecular networking of gas chromatography-mass spectrometry data. <i>Nature Biotechnology</i> , 2021 , 39, 169-173	44.5	36
52	Chemically informed analyses of metabolomics mass spectrometry data with Qemistree. <i>Nature Chemical Biology</i> , 2021 , 17, 146-151	11.7	29
51	A Multi-Omics Characterization of the Natural Product Potential of Tropical Filamentous Marine Cyanobacteria. <i>Marine Drugs</i> , 2021 , 19,	6	6
50	A community resource for paired genomic and metabolomic data mining. <i>Nature Chemical Biology</i> , 2021 , 17, 363-368	11.7	32
49	Chemical Gradients of Plant Substrates in an Fungus Garden. <i>MSystems</i> , 2021 , 6, e0060121	7.6	0
48	Chemical Proportionality within Molecular Networks. <i>Analytical Chemistry</i> , 2021 , 93, 12833-12839	7.8	2
47	Reproducible molecular networking of untargeted mass spectrometry data using GNPS. <i>Nature Protocols</i> , 2020 , 15, 1954-1991	18.8	125
46	Global chemical effects of the microbiome include new bile-acid conjugations. <i>Nature</i> , 2020 , 579, 123-129	50.4	129

45	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	16.4	57
44	Protocol for community-created public MS/MS reference spectra within the Global Natural Products Social Molecular Networking infrastructure. <i>Rapid Communications in Mass Spectrometry</i> , 2020 , 34, e8725	2.2	5
43	Mass spectrometry searches using MASST. <i>Nature Biotechnology</i> , 2020 , 38, 23-26	44.5	74
42	Fungal-bacterial interaction selects for quorum sensing mutants with increased production of natural antifungal compounds. <i>Communications Biology</i> , 2020 , 3, 670	6.7	6
41	Feature-based molecular networking in the GNPS analysis environment. <i>Nature Methods</i> , 2020 , 17, 905-906	20.6	207
40	ReDU: a framework to find and reanalyze public mass spectrometry data. <i>Nature Methods</i> , 2020 , 17, 901-904	20.4	28
39	Molecular and Microbial Microenvironments in Chronically Diseased Lungs Associated with Cystic Fibrosis. <i>MSystems</i> , 2019 , 4,	7.6	15
38	Initial Development toward Non-Invasive Drug Monitoring via Untargeted Mass Spectrometric Analysis of Human Skin. <i>Analytical Chemistry</i> , 2019 , 91, 8062-8069	7.8	8
37	MolNetEnhancer: Enhanced Molecular Networks by Integrating Metabolome Mining and Annotation Tools. <i>Metabolites</i> , 2019 , 9,	5.6	101
36	Reproducible, interactive, scalable and extensible microbiome data science using QIIME 2. <i>Nature Biotechnology</i> , 2019 , 37, 852-857	44.5	4050
35	Learning representations of microbe-metabolite interactions. <i>Nature Methods</i> , 2019 , 16, 1306-1314	21.6	79
34	The Natural Products Atlas: An Open Access Knowledge Base for Microbial Natural Products Discovery. <i>ACS Central Science</i> , 2019 , 5, 1824-1833	16.8	137
33	Whole Cell MALDI Fingerprinting Is a Robust Tool for Differential Profiling of Two-Component Mammalian Cell Mixtures. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 344-354	3.5	3
32	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	4.9	134
31	Qiita: rapid, web-enabled microbiome meta-analysis. <i>Nature Methods</i> , 2018 , 15, 796-798	21.6	231
30	Assembling the Community-Scale Discoverable Human Proteome. <i>Cell Systems</i> , 2018 , 7, 412-421.e5	10.6	68
29	Propagating annotations of molecular networks using in silico fragmentation. <i>PLoS Computational Biology</i> , 2018 , 14, e1006089	5	139
28	Discovering and linking public omics data sets using the Omics Discovery Index. <i>Nature Biotechnology</i> , 2017 , 35, 406-409	44.5	105

27	Three-Dimensional Microbiome and Metabolome Cartography of a Diseased Human Lung. <i>Cell Host and Microbe</i> , 2017 , 22, 705-716.e4	23.4	74
26	The ProteomeXchange consortium in 2017: supporting the cultural change in proteomics public data deposition. <i>Nucleic Acids Research</i> , 2017 , 45, D1100-D1106	20.1	568
25	Significance estimation for large scale metabolomics annotations by spectral matching. <i>Nature Communications</i> , 2017 , 8, 1494	17.4	90
24	Digitizing mass spectrometry data to explore the chemical diversity and distribution of marine cyanobacteria and algae. <i>ELife</i> , 2017 , 6,	8.9	26
23	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	11.5	41
22	SPLASH, a hashed identifier for mass spectra. <i>Nature Biotechnology</i> , 2016 , 34, 1099-1101	44.5	48
21	SweetNET: A Bioinformatics Workflow for Glycopeptide MS/MS Spectral Analysis. <i>Journal of Proteome Research</i> , 2016 , 15, 2826-40	5.6	43
20	Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking. <i>Nature Biotechnology</i> , 2016 , 34, 828-837	44.5	1566
19	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		122
18	Automated genome mining of ribosomal peptide natural products. <i>ACS Chemical Biology</i> , 2014 , 9, 1545-519	41	114
17	Spectral library generating function for assessing spectrum-spectrum match significance. <i>Journal of Proteome Research</i> , 2013 , 12, 3944-51	5.6	18
16	Reproducible Molecular Networking Of Untargeted Mass Spectrometry Data Using GNPS.		7
15	QIIME 2: Reproducible, interactive, scalable, and extensible microbiome data science		36
14	Fungal-bacterial interaction selects for quorum sensing mutants and a metabolic shift towards the production of natural antifungal compounds		1
13	Significance estimation for large scale untargeted metabolomics annotations		4
12	Chemically-informed Analyses of Metabolomics Mass Spectrometry Data with Qemistree		3
11	Universal MS/MS Visualization and Retrieval with the Metabolomics Spectrum Resolver Web Service		6
10	Ion Identity Molecular Networking in the GNPS Environment		11

9	Reference data based insights expand understanding of human metabolomes	4
8	MASST: A Web-based Basic Mass Spectrometry Search Tool for Molecules to Search Public Data	8
7	MolNetEnhancer: enhanced molecular networks by integrating metabolome mining and annotation tools	10
6	Chemical Impacts of the Microbiome Across Scales Reveal Novel Conjugated Bile Acids	3
5	Repository-scale Co- and Re-analysis of Tandem Mass Spectrometry Data	14
4	Protocol for Community-created Public MS/MS Reference Library Within the GNPS Infrastructure	3
3	Feature-based Molecular Networking in the GNPS Analysis Environment	29
2	GNPS Dashboard: Collaborative Analysis of Mass Spectrometry Data in the Web Browser	2
1	Native Metabolomics Identifies the Rivulariapeptolide Family of Protease Inhibitors	1