Mingxun Wang

List of Publications by Citations

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	Reproducible, interactive, scalable and extensible microbiome data science using QIIME 2. *Nature Biotechnology*, **2019**, 37, 852-857	44.5	4050
61	Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking. *Nature Biotechnology*, **2016**, 34, 828-837	44.5	1566
60	The ProteomeXchange consortium in 2017: supporting the cultural change in proteomics public data deposition. *Nucleic Acids Research*, **2017**, 45, D1100-D1106	20.1	568
59	Qiita: rapid, web-enabled microbiome meta-analysis. *Nature Methods*, **2018**, 15, 796-798	21.6	231
58	Feature-based molecular networking in the GNPS analysis environment. *Nature Methods*, **2020**, 17, 905-908	21.6	207
57	Propagating annotations of molecular networks using in silico fragmentation. *PLoS Computational Biology*, **2018**, 14, e1006089	5	139
56	The Natural Products Atlas: An Open Access Knowledge Base for Microbial Natural Products Discovery. *ACS Central Science*, **2019**, 5, 1824-1833	16.8	137
55	Bioactivity-Based Molecular Networking for the Discovery of Drug Leads in Natural Product Bioassay-Guided Fractionation. *Journal of Natural Products*, **2018**, 81, 758-767	4.9	134
54	Global chemical effects of the microbiome include new bile-acid conjugations. *Nature*, **2020**, 579, 123-129	50.4	129
53	Reproducible molecular networking of untargeted mass spectrometry data using GNPS. *Nature Protocols*, **2020**, 15, 1954-1991	18.8	125
52	Molecular networking and pattern-based genome mining improves discovery of biosynthetic gene clusters and their products from Salinispora species. *Chemistry and Biology*, **2015**, 22, 460-471		122
51	Automated genome mining of ribosomal peptide natural products. *ACS Chemical Biology*, **2014**, 9, 1545-51	4.9	114
50	Discovering and linking public omics data sets using the Omics Discovery Index. *Nature Biotechnology*, **2017**, 35, 406-409	44.5	105
49	MolNetEnhancer: Enhanced Molecular Networks by Integrating Metabolome Mining and Annotation Tools. *Metabolites*, **2019**, 9,	5.6	101
48	Significance estimation for large scale metabolomics annotations by spectral matching. *Nature Communications*, **2017**, 8, 1494	17.4	90
47	Learning representations of microbe-metabolite interactions. *Nature Methods*, **2019**, 16, 1306-1314	21.6	79
46	Three-Dimensional Microbiome and Metabolome Cartography of a Diseased Human Lung. *Cell Host and Microbe*, **2017**, 22, 705-716.e4	23.4	74

45	Mass spectrometry searches using MASST. *Nature Biotechnology*, **2020**, 38, 23-26	44.5	74
44	Assembling the Community-Scale Discoverable Human Proteome. *Cell Systems*, **2018**, 7, 412-421.e5	10.6	68
43	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	16.4	57
42	SPLASH, a hashed identifier for mass spectra. *Nature Biotechnology*, **2016**, 34, 1099-1101	44.5	48
41	SweetNET: A Bioinformatics Workflow for Glycopeptide MS/MS Spectral Analysis. *Journal of Proteome Research*, **2016**, 15, 2826-40	5.6	43
40	Lifestyle chemistries from phones for individual profiling. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E7645-E7654	11.5	41
39	QIIME 2: Reproducible, interactive, scalable, and extensible microbiome data science		36
38	Auto-deconvolution and molecular networking of gas chromatography-mass spectrometry data. *Nature Biotechnology*, **2021**, 39, 169-173	44.5	36
37	A community resource for paired genomic and metabolomic data mining. *Nature Chemical Biology*, **2021**, 17, 363-368	11.7	32
36	Feature-based Molecular Networking in the GNPS Analysis Environment		29
35	Chemically informed analyses of metabolomics mass spectrometry data with Qemistree. *Nature Chemical Biology*, **2021**, 17, 146-151	11.7	29
34	ReDU: a framework to find and reanalyze public mass spectrometry data. *Nature Methods*, **2020**, 17, 901-904	28.4	28
33	Digitizing mass spectrometry data to explore the chemical diversity and distribution of marine cyanobacteria and algae. *ELife*, **2017**, 6,	8.9	26
32	Ion identity molecular networking for mass spectrometry-based metabolomics in the GNPS environment. *Nature Communications*, **2021**, 12, 3832	17.4	22
31	NPClassifier: A Deep Neural Network-Based Structural Classification Tool for Natural Products. *Journal of Natural Products*, **2021**, 84, 2795-2807	4.9	21
30	Spectral library generating function for assessing spectrum-spectrum match significance. *Journal of Proteome Research*, **2013**, 12, 3944-51	5.6	18
29	Molecular and Microbial Microenvironments in Chronically Diseased Lungs Associated with Cystic Fibrosis. *MSystems*, **2019**, 4,	7.6	15
28	Repository-scale Co- and Re-analysis of Tandem Mass Spectrometry Data		14

27	Non-targeted tandem mass spectrometry enables the visualization of organic matter chemotype shifts in coastal seawater. *Chemosphere*, **2021**, 271, 129450	8.4	14
26	Ion Identity Molecular Networking in the GNPS Environment		11
25	MolNetEnhancer: enhanced molecular networks by integrating metabolome mining and annotation tools		10
24	Initial Development toward Non-Invasive Drug Monitoring via Untargeted Mass Spectrometric Analysis of Human Skin. *Analytical Chemistry*, **2019**, 91, 8062-8069	7.8	8
23	MASST: A Web-based Basic Mass Spectrometry Search Tool for Molecules to Search Public Data		8
22	Reproducible Molecular Networking Of Untargeted Mass Spectrometry Data Using GNPS.		7
21	A proteomics sample metadata representation for multiomics integration and big data analysis. *Nature Communications*, **2021**, 12, 5854	17.4	7
20	Universal MS/MS Visualization and Retrieval with the Metabolomics Spectrum Resolver Web Service		6
19	Fungal-bacterial interaction selects for quorum sensing mutants with increased production of natural antifungal compounds. *Communications Biology*, **2020**, 3, 670	6.7	6
18	A Multi-Omics Characterization of the Natural Product Potential of Tropical Filamentous Marine Cyanobacteria. *Marine Drugs*, **2021**, 19,	6	6
17	Protocol for community-created public MS/MS reference spectra within the Global Natural Products Social Molecular Networking infrastructure. *Rapid Communications in Mass Spectrometry*, **2020**, 34, e8725	2.2	5
16	GNPS Dashboard: collaborative exploration of mass spectrometry data in the web browser. *Nature Methods*, **2021**,	21.6	5
15	Significance estimation for large scale untargeted metabolomics annotations		4
14	Reference data based insights expand understanding of human metabolomes		4
13	Quick-start infrastructure for untargeted metabolomics analysis in GNPS. *Nature Metabolism*, **2021**, 3, 880-882	14.6	4
12	Tandem Mass Spectrometry Molecular Networking as a Powerful and Efficient Tool for Drug Metabolism Studies.. *Analytical Chemistry*, **2022**,	7.8	3
11	Chemically-informed Analyses of Metabolomics Mass Spectrometry Data with Qemistree		3
10	Chemical Impacts of the Microbiome Across Scales Reveal Novel Conjugated Bile Acids		3

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9	Protocol for Community-created Public MS/MS Reference Library Within the GNPS Infrastructure		3
8	Whole Cell MALDI Fingerprinting Is a Robust Tool for Differential Profiling of Two-Component Mammalian Cell Mixtures. *Journal of the American Society for Mass Spectrometry*, **2019**, 30, 344-354	3.5	3
7	GNPS Dashboard: Collaborative Analysis of Mass Spectrometry Data in the Web Browser		2
6	Chemical Proportionality within Molecular Networks. *Analytical Chemistry*, **2021**, 93, 12833-12839	7.8	2
5	Fungal-bacterial interaction selects for quorum sensing mutants and a metabolic shift towards the production of natural antifungal compounds		1
4	Native Metabolomics Identifies the Rivulariapeptolide Family of Protease Inhibitors		1
3	Chemical Gradients of Plant Substrates in an Fungus Garden. *MSystems*, **2021**, 6, e0060121	7.6	0
2	foodMASST a mass spectrometry search tool for foods and beverages.. *Npj Science of Food*, **2022**, 6, 22	6.3	0
1	SIMILE enables alignment of tandem mass spectra with statistical significance.. *Nature Communications*, **2022**, 13, 2510	17.4	0