

# Alexey V Melnik

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

20,502  
citations

172386

29  
h-index

276775

41  
g-index

61  
all docs

61  
docs citations

61  
times ranked

25345  
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	Best practices for analysing microbiomes. <i>Nature Reviews Microbiology</i> , 2018, 16, 410-422.	13.6	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.	9.0	822
5	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, .	5.8	744
6	Minimum Information about a Biosynthetic Gene cluster. <i>Nature Chemical Biology</i> , 2015, 11, 625-631.	3.9	715
7	Global chemical effects of the microbiome include new bile-acid conjugations. <i>Nature</i> , 2020, 579, 123-129.	13.7	316
8	Mass spectrometry searches using MASST. <i>Nature Biotechnology</i> , 2020, 38, 23-26.	9.4	160
9	Indexing the <i>Pseudomonas</i> specialized metabolome enabled the discovery of poaeamide B and the bananamides. <i>Nature Microbiology</i> , 2017, 2, 16197.	5.9	121
10	Three-Dimensional Microbiome and Metabolome Cartography of a Diseased Human Lung. <i>Cell Host and Microbe</i> , 2017, 22, 705-716.e4.	5.1	111
11	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.	1.5	105
12	The impact of skin care products on skin chemistry and microbiome dynamics. <i>BMC Biology</i> , 2019, 17, 47.	1.7	101
13	Intermittent Hypoxia and Hypercapnia, a Hallmark of Obstructive Sleep Apnea, Alters the Gut Microbiome and Metabolome. <i>MSystems</i> , 2018, 3, .	1.7	96
14	3D molecular cartography using LC-MS facilitated by Optimus and 'ili software. <i>Nature Protocols</i> , 2018, 13, 134-154.	5.5	85
15	A <i>Cutibacterium acnes</i> antibiotic modulates human skin microbiota composition in hair follicles. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	83
16	Pep2Path: Automated Mass Spectrometry-Guided Genome Mining of Peptidic Natural Products. <i>PLoS Computational Biology</i> , 2014, 10, e1003822.	1.5	81
17	ReDU: a framework to find and reanalyze public mass spectrometry data. <i>Nature Methods</i> , 2020, 17, 901-904.	9.0	79
18	Auto-deconvolution and molecular networking of gas chromatography-mass spectrometry data. <i>Nature Biotechnology</i> , 2021, 39, 169-173.	9.4	78

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19	Identification of the Bacterial Biosynthetic Gene Clusters of the Oral Microbiome Illuminates the Unexplored Social Language of Bacteria during Health and Disease. <i>MBio</i> , 2019, 10, .	1.8	73
20	Coupling Targeted and Untargeted Mass Spectrometry for Metabolome-Microbiome-Wide Association Studies of Human Fecal Samples. <i>Analytical Chemistry</i> , 2017, 89, 7549-7559.	3.2	62
21	Natural products as mediators of disease. <i>Natural Product Reports</i> , 2017, 34, 194-219.	5.2	59
22	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.	3.3	55
23	From Sample to Multi-Omics Conclusions in under 48 Hours. <i>MSystems</i> , 2016, 1, .	1.7	53
24	Untargeted mass spectrometry-based metabolomics approach unveils molecular changes in raw and processed foods and beverages. <i>Food Chemistry</i> , 2020, 302, 125290.	4.2	52
25	Lugdunomycin, an Angucyclineâ€Derived Molecule with Unprecedented Chemical Architecture. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2809-2814.	7.2	46
26	Niche partitioning of a pathogenic microbiome driven by chemical gradients. <i>Science Advances</i> , 2018, 4, eaau1908.	4.7	40
27	Mass spectrometry tools and workflows for revealing microbial chemistry. <i>Analyst, The</i> , 2015, 140, 4949-4966.	1.7	39
28	Spatial Molecular Architecture of the Microbial Community of a <i>Peltigera</i> Lichen. <i>MSystems</i> , 2016, 1, .	1.7	36
29	Creating a 3D microbial and chemical snapshot of a human habitat. <i>Scientific Reports</i> , 2018, 8, 3669.	1.6	34
30	Mass Spectrometry Based Molecular 3D-Cartography of Plant Metabolites. <i>Frontiers in Plant Science</i> , 2017, 8, 429.	1.7	24
31	Intermittent Hypoxia and Hypercapnia Reproducibly Change the Gut Microbiome and Metabolome across Rodent Model Systems. <i>MSystems</i> , 2019, 4, .	1.7	24
32	Molecular and Microbial Microenvironments in Chronically Diseased Lungs Associated with Cystic Fibrosis. <i>MSystems</i> , 2019, 4, .	1.7	23
33	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
34	Mass Spectrometry Uncovers the Role of Surfactin as an Interspecies Recruitment Factor. <i>ACS Chemical Biology</i> , 2019, 14, 459-467.	1.6	21
35	Microbial and Nonvolatile Chemical Diversities of Chinese Dark Teas Are Differed by Latitude and Pile Fermentation. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 5701-5714.	2.4	11
36	Functional genomics and metabolomics advance the ethnobotany of the Samoan traditional medicine â€œmatalafâ€. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	8

#	ARTICLE	IF	CITATIONS
37	B. infantis EVC001 Is Well-Tolerated and Improves Human Milk Oligosaccharide Utilization in Preterm Infants in the Neonatal Intensive Care Unit. <i>Frontiers in Pediatrics</i> , 2021, 9, 795970.	0.9	5
38	The molecular impact of life in an indoor environment. <i>Science Advances</i> , 2022, 8, .	4.7	3
39	Lugdunomycin, an Angucyclineâ€Derived Molecule with Unprecedented Chemical Architecture. <i>Angewandte Chemie</i> , 2019, 131, 2835-2840.	1.6	2
40	Data generation and analysis with SIRIUS 4 on two biological case studies. <i>Protocol Exchange</i> , 0, , .	0.3	1
41	Metabolic Profiling of Interspecies Interactions During Sessile Bacterial Cultivation Reveals Growth and Sporulation Induction in <i>Paenibacillus amylolyticus</i> in Response to <i>Xanthomonas retroflexus</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, 805473.	1.8	1
42	Three Dimensional Cartography of Microbiome and Metabolome Data onto Radiological Images of the Human Lung. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0