

Alexey V Melnik

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.

46
papers

9,206
citations

28
h-index

61
g-index

61
ext. papers

15,190
ext. citations

14.6
avg, IF

5.04
L-index

#	Paper	IF	Citations
46	Metabolic Profiling of Interspecies Interactions During Sessile Bacterial Cultivation Reveals Growth and Sporulation Induction in Response to .. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022 , 12, 805473	5.9	
45	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	3.4	2
44	Functional genomics and metabolomics advance the ethnobotany of the Samoan traditional medicine "matalafi". <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	5
43	Auto-deconvolution and molecular networking of gas chromatography-mass spectrometry data. <i>Nature Biotechnology</i> , 2021 , 39, 169-173	44.5	36
42	Feature-Based Molecular Networking Analysis of the Metabolites Produced by Solid-State Fermentation Reveals Pathways for the Bioconversion of Epigallocatechin Gallate. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 7995-8007	5.7	4
41	Global chemical effects of the microbiome include new bile-acid conjugations. <i>Nature</i> , 2020 , 579, 123-129	39.4	129
40	Mass spectrometry searches using MASST. <i>Nature Biotechnology</i> , 2020 , 38, 23-26	44.5	74
39	A antibiotic modulates human skin microbiota composition in hair follicles. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	24
38	ReDU: a framework to find and reanalyze public mass spectrometry data. <i>Nature Methods</i> , 2020 , 17, 901-904	20.4	28
37	Untargeted mass spectrometry-based metabolomics approach unveils molecular changes in raw and processed foods and beverages. <i>Food Chemistry</i> , 2020 , 302, 125290	8.5	34
36	Molecular and Microbial Microenvironments in Chronically Diseased Lungs Associated with Cystic Fibrosis. <i>MSystems</i> , 2019 , 4,	7.6	15
35	Lugdunomycin, an Angucycline-Derived Molecule with Unprecedented Chemical Architecture. <i>Angewandte Chemie</i> , 2019 , 131, 2835-2840	3.6	2
34	The impact of skin care products on skin chemistry and microbiome dynamics. <i>BMC Biology</i> , 2019 , 17, 47	7.3	42
33	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,	7.8	42
32	Intermittent Hypoxia and Hypercapnia Reproducibly Change the Gut Microbiome and Metabolome across Rodent Model Systems. <i>MSystems</i> , 2019 , 4,	7.6	13
31	SIRIUS 4: a rapid tool for turning tandem mass spectra into metabolite structure information. <i>Nature Methods</i> , 2019 , 16, 299-302	21.6	325
30	Reproducible, interactive, scalable and extensible microbiome data science using QIIME 2. <i>Nature Biotechnology</i> , 2019 , 37, 852-857	44.5	4050

29	Mass Spectrometry Uncovers the Role of Surfactin as an Interspecies Recruitment Factor. <i>ACS Chemical Biology</i> , 2019 , 14, 459-467	4.9	9
28	Lugdunomycin, an Angucycline-Derived Molecule with Unprecedented Chemical Architecture. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 2809-2814	16.4	27
27	Creating a 3D microbial and chemical snapshot of a human habitat. <i>Scientific Reports</i> , 2018 , 8, 3669	4.9	23
26	3D molecular cartography using LC-MS facilitated by Optimus and ali software. <i>Nature Protocols</i> , 2018 , 13, 134-154	18.8	53
25	Intermittent Hypoxia and Hypercapnia, a Hallmark of Obstructive Sleep Apnea, Alters the Gut Microbiome and Metabolome. <i>MSystems</i> , 2018 , 3,	7.6	56
24	QIIME 2: Reproducible, interactive, scalable, and extensible microbiome data science 2018 ,		78
23	Niche partitioning of a pathogenic microbiome driven by chemical gradients. <i>Science Advances</i> , 2018 , 4, eaau1908	14.3	21
22	Best practices for analysing microbiomes. <i>Nature Reviews Microbiology</i> , 2018 , 16, 410-422	22.2	668
21	Antimicrobials from human skin commensal bacteria protect against and are deficient in atopic dermatitis. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	478
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	7.8	46
19	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
18	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	4.9	78
17	Natural products as mediators of disease. <i>Natural Product Reports</i> , 2017 , 34, 194-219	15.1	47
16	Mass Spectrometry Based Molecular 3D-Cartography of Plant Metabolites. <i>Frontiers in Plant Science</i> , 2017 , 8, 429	6.2	14
15	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
14	Indexing the Pseudomonas specialized metabolome enabled the discovery of poeamide B and the bananamides. <i>Nature Microbiology</i> , 2016 , 2, 16197	26.6	83
13	Spatial Molecular Architecture of the Microbial Community of a Lichen. <i>MSystems</i> , 2016 , 1,	7.6	22
12	From Sample to Multi-Omics Conclusions in under 48 Hours. <i>MSystems</i> , 2016 , 1,	7.6	45

11	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
10	Mass spectrometry tools and workflows for revealing microbial chemistry. <i>Analyst, The</i> , 2015 , 140, 4949-56		30
9	Minimum Information about a Biosynthetic Gene cluster. <i>Nature Chemical Biology</i> , 2015 , 11, 625-31	11.7	498
8	Pep2Path: automated mass spectrometry-guided genome mining of peptidic natural products. <i>PLoS Computational Biology</i> , 2014 , 10, e1003822	5	68
7	QIIME 2: Reproducible, interactive, scalable, and extensible microbiome data science		36
6	QIIME 2: Reproducible, interactive, scalable, and extensible microbiome data science		138
5	American Gut: an Open Platform for Citizen-Science Microbiome Research		11
4	Identification of the bacterial biosynthetic gene clusters of the oral microbiome illuminates the unexplored social language of bacteria during health and disease		3
3	MASST: A Web-based Basic Mass Spectrometry Search Tool for Molecules to Search Public Data		8
2	Cutibacterium acnes antibiotic production shapes niche competition in the human skin microbiome		7
1	Repository-scale Co- and Re-analysis of Tandem Mass Spectrometry Data		14