Alexander A Aksenov

List of Publications by Citations

34 papers	2,795 citations	22 h-index	42 g-index
42 ext. papers	4,411 ext. citations	18.6 avg, IF	4.69 L-index

#	Paper	IF	Citations
34	Best practices for analysing microbiomes. *Nature Reviews Microbiology*, **2018**, 16, 410-422	22.2	668
33	American Gut: an Open Platform for Citizen Science Microbiome Research. *MSystems*, **2018**, 3,	7.6	336
32	SIRIUS 4: a rapid tool for turning tandem mass spectra into metabolite structure information. *Nature Methods*, **2019**, 16, 299-302	21.6	325
31	Inflammation-induced IgA+ cells dismantle anti-liver cancer immunity. *Nature*, **2017**, 551, 340-345	50.4	224
30	Feature-based molecular networking in the GNPS analysis environment. *Nature Methods*, **2020**, 17, 905-908	21.6	207
29	Global chemical effects of the microbiome include new bile-acid conjugations. *Nature*, **2020**, 579, 123-129	50.4	129
28	Reproducible molecular networking of untargeted mass spectrometry data using GNPS. *Nature Protocols*, **2020**, 15, 1954-1991	18.8	125
27	Global chemical analysis of biology by mass spectrometry. *Nature Reviews Chemistry*, **2017**, 1,	34.6	91
26	Learning representations of microbe-metabolite interactions. *Nature Methods*, **2019**, 16, 1306-1314	21.6	79
25	Mass spectrometry searches using MASST. *Nature Biotechnology*, **2020**, 38, 23-26	44.5	74
24	3D molecular cartography using LC-MS facilitated by Optimus and 'ili software. *Nature Protocols*, **2018**, 13, 134-154	18.8	53
23	Coupling Targeted and Untargeted Mass Spectrometry for Metabolome-Microbiome-Wide Association Studies of Human Fecal Samples. *Analytical Chemistry*, **2017**, 89, 7549-7559	7.8	46
22	Auto-deconvolution and molecular networking of gas chromatography-mass spectrometry data. *Nature Biotechnology*, **2021**, 39, 169-173	44.5	36
21	Untargeted mass spectrometry-based metabolomics approach unveils molecular changes in raw and processed foods and beverages. *Food Chemistry*, **2020**, 302, 125290	8.5	34
20	Consumption of Fermented Foods Is Associated with Systematic Differences in the Gut Microbiome and Metabolome. *MSystems*, **2020**, 5,	7.6	33
19	Neutrophilic proteolysis in the cystic fibrosis lung correlates with a pathogenic microbiome. *Microbiome*, **2019**, 7, 23	16.6	32
18	A community resource for paired genomic and metabolomic data mining. *Nature Chemical Biology*, **2021**, 17, 363-368	11.7	32

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17	Predicting proteome allocation, overflow metabolism, and metal requirements in a model acetogen. *PLoS Computational Biology*, **2019**, 15, e1006848	5	31
16	CYP51 is an essential drug target for the treatment of primary amoebic meningoencephalitis (PAM). *PLoS Neglected Tropical Diseases*, **2017**, 11, e0006104	4.8	31
15	Feature-based Molecular Networking in the GNPS Analysis Environment		29
14	ReDU: a framework to find and reanalyze public mass spectrometry data. *Nature Methods*, **2020**, 17, 901-904	21.6	28
13	A antibiotic modulates human skin microbiota composition in hair follicles. *Science Translational Medicine*, **2020**, 12,	17.5	24
12	Ion identity molecular networking for mass spectrometry-based metabolomics in the GNPS environment. *Nature Communications*, **2021**, 12, 3832	17.4	22
11	Niche partitioning of a pathogenic microbiome driven by chemical gradients. *Science Advances*, **2018**, 4, eaau1908	14.3	21
10	A Genomic Toolkit for the Mechanistic Dissection of Intractable Human Gut Bacteria. *Cell Host and Microbe*, **2020**, 27, 1001-1013.e9	23.4	16
9	Molecular and Microbial Microenvironments in Chronically Diseased Lungs Associated with Cystic Fibrosis. *MSystems*, **2019**, 4,	7.6	15
8	Repository-scale Co- and Re-analysis of Tandem Mass Spectrometry Data		14
7	Ion Identity Molecular Networking in the GNPS Environment		11
6	MASST: A Web-based Basic Mass Spectrometry Search Tool for Molecules to Search Public Data		8
5	Reproducible Molecular Networking Of Untargeted Mass Spectrometry Data Using GNPS.		7
4	Chemical Impacts of the Microbiome Across Scales Reveal Novel Conjugated Bile Acids		3
3	Multi-omics profiling of Earth's biomes reveals that microbial and metabolite composition are shaped by the environment		3
2	EVC001 Is Well-Tolerated and Improves Human Milk Oligosaccharide Utilization in Preterm Infants in the Neonatal Intensive Care Unit.. *Frontiers in Pediatrics*, **2021**, 9, 795970	3.4	2
1	Reply to: Examining microbe-metabolite correlations by linear methods. *Nature Methods*, **2021**, 18, 40-41	21.6	2