

Robert A Quinn

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

8,115
citations

147801

31
h-index

197818

49
g-index

53
all docs

53
docs citations

53
times ranked

10721
citing authors

#	ARTICLE	IF	CITATIONS
1	Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking. <i>Nature Biotechnology</i> , 2016, 34, 828-837.	17.5	2,802
2	Best practices for analysing microbiomes. <i>Nature Reviews Microbiology</i> , 2018, 16, 410-422.	28.6	1,138
3	Feature-based molecular networking in the GNPS analysis environment. <i>Nature Methods</i> , 2020, 17, 905-908.	19.0	650
4	Illuminating the dark matter in metabolomics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12549-12550.	7.1	387
5	Global chemical effects of the microbiome include new bile-acid conjugations. <i>Nature</i> , 2020, 579, 123-129.	27.8	316
6	Balance Trees Reveal Microbial Niche Differentiation. <i>MSystems</i> , 2017, 2, .	3.8	284
7	Review: microbial transformations of human bile acids. <i>Microbiome</i> , 2021, 9, 140.	11.1	276
8	Molecular Networking As a Drug Discovery, Drug Metabolism, and Precision Medicine Strategy. <i>Trends in Pharmacological Sciences</i> , 2017, 38, 143-154.	8.7	250
9	Learning representations of microbe-metabolite interactions. <i>Nature Methods</i> , 2019, 16, 1306-1314.	19.0	184
10	Mass spectrometry searches using MASST. <i>Nature Biotechnology</i> , 2020, 38, 23-26.	17.5	160
11	Breath gas metabolites and bacterial metagenomes from cystic fibrosis airways indicate active pH neutral 2,3-butanedione fermentation. <i>ISME Journal</i> , 2014, 8, 1247-1258.	9.8	114
12	Multi-omics analyses of the ulcerative colitis gut microbiome link <i>Bacteroides vulgatus</i> proteases with disease severity. <i>Nature Microbiology</i> , 2022, 7, 262-276.	13.3	110
13	Involvement of the Gut Microbiota and Barrier Function in Glucocorticoid-Induced Osteoporosis. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 801-820.	2.8	101
14	Biogeochemical Forces Shape the Composition and Physiology of Polymicrobial Communities in the Cystic Fibrosis Lung. <i>MBio</i> , 2014, 5, e00956-13.	4.1	94
15	Microbial, host and xenobiotic diversity in the cystic fibrosis sputum metabolome. <i>ISME Journal</i> , 2016, 10, 1483-1498.	9.8	88
16	ReDU: a framework to find and reanalyze public mass spectrometry data. <i>Nature Methods</i> , 2020, 17, 901-904.	19.0	79
17	Auto-deconvolution and molecular networking of gas chromatography-mass spectrometry data. <i>Nature Biotechnology</i> , 2021, 39, 169-173.	17.5	78
18	Ecological networking of cystic fibrosis lung infections. <i>Npj Biofilms and Microbiomes</i> , 2016, 2, 4.	6.4	77

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19	A Winogradsky-based culture system shows an association between microbial fermentation and cystic fibrosis exacerbation. <i>ISME Journal</i> , 2015, 9, 1024-1038.	9.8	59
20	Metabolomic signatures of coral bleaching history. <i>Nature Ecology and Evolution</i> , 2021, 5, 495-503.	7.8	59
21	Meta-mass shift chemical profiling of metabolomes from coral reefs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11685-11690.	7.1	57
22	Metabolomics of reef benthic interactions reveals a bioactive lipid involved in coral defence. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160469.	2.6	55
23	From Sample to Multi-Omics Conclusions in under 48 Hours. <i>MSystems</i> , 2016, 1, .	3.8	53
24	Neutrophilic proteolysis in the cystic fibrosis lung correlates with a pathogenic microbiome. <i>Microbiome</i> , 2019, 7, 23.	11.1	53
25	Untargeted mass spectrometry-based metabolomics approach unveils molecular changes in raw and processed foods and beverages. <i>Food Chemistry</i> , 2020, 302, 125290.	8.2	52
26	A multiomic analysis of in situ coral-turf algal interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13588-13595.	7.1	48
27	Optimizing sequencing protocols for leaderboard metagenomics by combining long and short reads. <i>Genome Biology</i> , 2019, 20, 226.	8.8	47
28	High-Resolution Longitudinal Dynamics of the Cystic Fibrosis Sputum Microbiome and Metabolome through Antibiotic Therapy. <i>MSystems</i> , 2020, 5, .	3.8	47
29	Metabolomics of pulmonary exacerbations reveals the personalized nature of cystic fibrosis disease. <i>PeerJ</i> , 2016, 4, e2174.	2.0	45
30	Mass Spectrometry-Based Visualization of Molecules Associated with Human Habitats. <i>Analytical Chemistry</i> , 2016, 88, 10775-10784.	6.5	44
31	Niche partitioning of a pathogenic microbiome driven by chemical gradients. <i>Science Advances</i> , 2018, 4, eaau1908.	10.3	40
32	A restructuring of microbiome niche space is associated with Elexacaftor-Tezacaftor-Ivacaftor therapy in the cystic fibrosis lung. <i>Journal of Cystic Fibrosis</i> , 2022, 21, 996-1005.	0.7	34
33	Molecular and Microbial Microenvironments in Chronically Diseased Lungs Associated with Cystic Fibrosis. <i>MSystems</i> , 2019, 4, .	3.8	23
34	Before platelets: the production of platelet-activating factor during growth and stress in a basal marine organism. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181307.	2.6	20
35	Microbial Transformations of Organically Fermented Foods. <i>Metabolites</i> , 2019, 9, 165.	2.9	20
36	Cystic Fibrosis Rapid Response: Translating Multi-omics Data into Clinically Relevant Information. <i>MBio</i> , 2019, 10, .	4.1	20

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37	Metabotypes of <i>Pseudomonas aeruginosa</i> Correlate with Antibiotic Resistance, Virulence and Clinical Outcome in Cystic Fibrosis Chronic Infections. <i>Metabolites</i> , 2021, 11, 63.	2.9	20
38	Paroxetine Administration Affects Microbiota and Bile Acid Levels in Mice. <i>Frontiers in Psychiatry</i> , 2020, 11, 518.	2.6	19
39	Intrapopulation adaptive variance supports thermal tolerance in a reef-building coral. <i>Communications Biology</i> , 2022, 5, 486.	4.4	18
40	Mining Public Mass Spectrometry Data to Characterize the Diversity and Ubiquity of <i>P. aeruginosa</i> Specialized Metabolites. <i>Metabolites</i> , 2020, 10, 445.	2.9	13
41	Three-Dimensional Molecular Cartography of the Caribbean Reef-Building Coral <i>Orbicella faveolata</i> . <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	11
42	Streptozotocin-induced hyperglycemia alters the cecal metabolome and exacerbates antibiotic-induced dysbiosis. <i>Cell Reports</i> , 2021, 37, 110113.	6.4	11
43	Complex and unexpected outcomes of antibiotic therapy against a polymicrobial infection. <i>ISME Journal</i> , 2022, 16, 2065-2075.	9.8	11
44	The WinCF Model - An Inexpensive and Tractable Microcosm of a Mucus Plugged Bronchiole to Study the Microbiology of Lung Infections. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	8
45	Evaluating Organism-Wide Changes in the Metabolome and Microbiome following a Single Dose of Antibiotic. <i>MSystems</i> , 2020, 5, .	3.8	6
46	Reply to: Examining microbeâ€“metabolite correlations by linear methods. <i>Nature Methods</i> , 2021, 18, 40-41.	19.0	6
47	Bridging the Gap between Analytical and Microbial Sciences in Microbiome Research. <i>MSystems</i> , 2021, 6, e0058521.	3.8	4
48	The Community Ecology of Microbial Molecules. <i>Journal of Chemical Ecology</i> , 2014, 40, 1161-1162.	1.8	2
49	Longitudinal effects of growth restriction on the murine gut microbiome and metabolome. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2022, 323, E159-E170.	3.5	1