

Catherine A Lozupone

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

87,984
citations

81434

41
h-index

120465

65
g-index

78
all docs

78
docs citations

78
times ranked

83706
citing authors

#	ARTICLE	IF	CITATIONS
1	QIIME allows analysis of high-throughput community sequencing data. <i>Nature Methods</i> , 2010, 7, 335-336.	9.0	31,818
2	Reproducible, interactive, scalable and extensible microbiome data science using QIIME 2. <i>Nature Biotechnology</i> , 2019, 37, 852-857.	9.4	11,167
3	Global patterns of 16S rRNA diversity at a depth of millions of sequences per sample. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4516-4522.	3.3	7,425
4	UniFrac: a New Phylogenetic Method for Comparing Microbial Communities. <i>Applied and Environmental Microbiology</i> , 2005, 71, 8228-8235.	1.4	7,007
5	Human gut microbiome viewed across age and geography. <i>Nature</i> , 2012, 486, 222-227.	13.7	6,247
6	Obesity alters gut microbial ecology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11070-11075.	3.3	5,247
7	Diversity, stability and resilience of the human gut microbiota. <i>Nature</i> , 2012, 489, 220-230.	13.7	4,114
8	Quantitative and Qualitative β Diversity Measures Lead to Different Insights into Factors That Structure Microbial Communities. <i>Applied and Environmental Microbiology</i> , 2007, 73, 1576-1585.	1.4	2,418
9	UniFrac: an effective distance metric for microbial community comparison. <i>ISME Journal</i> , 2011, 5, 169-172.	4.4	2,280
10	Global patterns in bacterial diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 11436-11440.	3.3	1,461
11	Normalization and microbial differential abundance strategies depend upon data characteristics. <i>Microbiome</i> , 2017, 5, 27.	4.9	1,434
12	UniFrac—an online tool for comparing microbial community diversity in a phylogenetic context. <i>BMC Bioinformatics</i> , 2006, 7, 371.	1.2	1,321
13	Muc5b is required for airway defence. <i>Nature</i> , 2014, 505, 412-416.	13.7	617
14	Correlation detection strategies in microbial data sets vary widely in sensitivity and precision. <i>ISME Journal</i> , 2016, 10, 1669-1681.	4.4	593
15	Alterations in the Gut Microbiota Associated with HIV-1 Infection. <i>Cell Host and Microbe</i> , 2013, 14, 329-339.	5.1	387
16	The Macaque Gut Microbiome in Health, Lentiviral Infection, and Chronic Enterocolitis. <i>PLoS Pathogens</i> , 2008, 4, e20.	2.1	371
17	Global patterns in the biogeography of bacterial taxa. <i>Environmental Microbiology</i> , 2011, 13, 135-144.	1.8	362
18	Meta-analyses of studies of the human microbiota. <i>Genome Research</i> , 2013, 23, 1704-1714.	2.4	352

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19	Low diversity gut microbiota dysbiosis: drivers, functional implications and recovery. <i>Current Opinion in Microbiology</i> , 2018, 44, 34-40.	2.3	262
20	Differences in fecal microbial metabolites and microbiota of children with autism spectrum disorders. <i>Anaerobe</i> , 2018, 49, 121-131.	1.0	249
21	Widespread Colonization of the Lung by <i>Tropheryma whippelii</i> in HIV Infection. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 187, 1110-1117.	2.5	175
22	Gut microbiota phenotypes of obesity. <i>Npj Biofilms and Microbiomes</i> , 2019, 5, 18.	2.9	144
23	HIV-induced alteration in gut microbiota. <i>Gut Microbes</i> , 2014, 5, 562-570.	4.3	131
24	The environment, epigenome, and asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 140, 14-23.	1.5	125
25	Pre-pregnancy weight, gestational weight gain, and the gut microbiota of mothers and their infants. <i>Microbiome</i> , 2017, 5, 113.	4.9	123
26	Gut Microbiota in the First 2 Years of Life and the Association with Body Mass Index at Age 12 in a Norwegian Birth Cohort. <i>MBio</i> , 2018, 9, .	1.8	121
27	The convergence of carbohydrate active gene repertoires in human gut microbes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 15076-15081.	3.3	120
28	Identifying genomic and metabolic features that can underlie early successional and opportunistic lifestyles of human gut symbionts. <i>Genome Research</i> , 2012, 22, 1974-1984.	2.4	120
29	An exploration of <i>Prevotella</i> -rich microbiomes in HIV and men who have sex with men. <i>Microbiome</i> , 2018, 6, 198.	4.9	111
30	Diverse Intestinal Bacteria Contain Putative Zwitterionic Capsular Polysaccharides with Anti-inflammatory Properties. <i>Cell Host and Microbe</i> , 2016, 20, 535-547.	5.1	108
31	Gut bacteria in children with autism spectrum disorders: challenges and promise of studying how a complex community influences a complex disease. <i>Microbial Ecology in Health and Disease</i> , 2015, 26, 26914.	3.8	105
32	Subversion of Systemic Glucose Metabolism as a Mechanism to Support the Growth of Leukemia Cells. <i>Cancer Cell</i> , 2018, 34, 659-673.e6.	7.7	90
33	Ribosomal RNA diversity predicts genome diversity in gut bacteria and their relatives. <i>Nucleic Acids Research</i> , 2010, 38, 3869-3879.	6.5	85
34	Selection of the simplest RNA that binds isoleucine. <i>Rna</i> , 2003, 9, 1315-1322.	1.6	83
35	Fecal Microbiota Composition Drives Immune Activation in HIV-infected Individuals. <i>EBioMedicine</i> , 2018, 30, 192-202.	2.7	78
36	Perinatal Bisphenol A Exposure Induces Chronic Inflammation in Rabbit Offspring via Modulation of Gut Bacteria and Their Metabolites. <i>MSystems</i> , 2017, 2, .	1.7	75

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37	Fecal Bacterial Communities in treated HIV infected individuals on two antiretroviral regimens. <i>Scientific Reports</i> , 2017, 7, 43741.	1.6	67
38	Microbiome and metabolome data integration provides insight into health and disease. <i>Translational Research</i> , 2017, 189, 51-64.	2.2	58
39	Gut microbiota from high-risk men who have sex with men drive immune activation in gnotobiotic mice and in vitro HIV infection. <i>PLoS Pathogens</i> , 2019, 15, e1007611.	2.1	55
40	Gut microbiome of mothers delivering prematurely shows reduced diversity and lower relative abundance of <i>Bifidobacterium</i> and <i>Streptococcus</i> . <i>PLoS ONE</i> , 2017, 12, e0184336.	1.1	53
41	Gut microbiota in adolescents and the association with fatty liver: the EPOCH study. <i>Pediatric Research</i> , 2018, 84, 219-227.	1.1	42
42	The Gut Microbiome in Autism: Study-Site Effects and Longitudinal Analysis of Behavior Change. <i>MSystems</i> , 2021, 6, .	1.7	28
43	Functional Microbiomics in Liver Transplantation: Identifying Novel Targets for Improving Allograft Outcomes. <i>Transplantation</i> , 2019, 103, 668-678.	0.5	25
44	Striking a Balance with Help from our Little Friends - How the Gut Microbiota Contributes to Immune Homeostasis. <i>Yale Journal of Biology and Medicine</i> , 2016, 89, 389-395.	0.2	24
45	Prevalence and Source of Fecal and Oral Bacteria on Infant, Child, and Adult Hands. <i>MSystems</i> , 2018, 3, .	1.7	23
46	The unifracs significance test is sensitive to tree topology. <i>BMC Bioinformatics</i> , 2015, 16, 211.	1.2	22
47	A phylogenetic model for the recruitment of species into microbial communities and application to studies of the human microbiome. <i>ISME Journal</i> , 2020, 14, 1359-1368.	4.4	21
48	Unraveling Interactions between the Microbiome and the Host Immune System To Decipher Mechanisms of Disease. <i>MSystems</i> , 2018, 3, .	1.7	19
49	Can gut microbiota of men who have sex with men influence HIV transmission?. <i>Gut Microbes</i> , 2020, 11, 610-619.	4.3	18
50	Towards large-cohort comparative studies to define the factors influencing the gut microbial community structure of ASD patients. <i>Microbial Ecology in Health and Disease</i> , 2015, 26, 26555.	3.8	16
51	Alteration of the gut fecal microbiome in children living with HIV on antiretroviral therapy in Yaounde, Cameroon. <i>Scientific Reports</i> , 2021, 11, 7666.	1.6	15
52	Multiple-Ascending-Dose Phase 1 Clinical Study of the Safety, Tolerability, and Pharmacokinetics of CRS3123, a Narrow-Spectrum Agent with Minimal Disruption of Normal Gut Microbiota. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 64, .	1.4	13
53	Intestinal Parasites Infections among HIV Infected Children Under Antiretrovirals Treatment in Yaounde, Cameroon. <i>Journal of Tropical Pediatrics</i> , 2020, 66, 178-186.	0.7	9
54	Blood type and the microbiome- untangling a complex relationship with lessons from pathogens. <i>Current Opinion in Microbiology</i> , 2020, 56, 59-66.	2.3	9

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55	Multiomic Predictors of Short-Term Weight Loss and Clinical Outcomes During a Behavioral-Based Weight Loss Intervention. <i>Obesity</i> , 2021, 29, 859-869.	1.5	9
56	Visualizing microbiome-immune system interplay. <i>Immunotherapy</i> , 2019, 11, 63-67.	1.0	8
57	Intestinal microbial communities and <i>Holdemanelle</i> isolated from HIV+ men who have sex with men increase frequencies of lamina propria CCR5 ⁺ CD4 ⁺ T cells. <i>Gut Microbes</i> , 2021, 13, 1997292.	4.3	8
58	The HIV-Associated Enteric Microbiome Has Gone Viral. <i>Cell Host and Microbe</i> , 2016, 19, 270-272.	5.1	7
59	Systems Analysis of Gut Microbiome Influence on Metabolic Disease in HIV-Positive and High-Risk Populations. <i>MSystems</i> , 2021, 6, .	1.7	7
60	VOLARE: visual analysis of disease-associated microbiome-immune system interplay. <i>BMC Bioinformatics</i> , 2019, 20, 432.	1.2	6
61	Dietary fat promotes antibiotic-induced <i>Clostridioides difficile</i> mortality in mice. <i>Npj Biofilms and Microbiomes</i> , 2022, 8, 15.	2.9	6
62	CANTARE: finding and visualizing network-based multi-omic predictive models. <i>BMC Bioinformatics</i> , 2021, 22, 80.	1.2	4
63	Disruption of Genes Encoding Putative Zwitterionic Capsular Polysaccharides of Diverse Intestinal <i>Bacteroides</i> Reduces the Induction of Host Anti-Inflammatory Factors. <i>Microbial Ecology</i> , 2023, 85, 1620-1629.	1.4	4
64	Microbial Biodiversity: Straight from the Dolphin's Mouth. <i>Current Biology</i> , 2017, 27, R1307-R1309.	1.8	0
65	Reply to Moossavi and Azad, "Quantifying and Interpreting the Association between Early-Life Gut Microbiota Composition and Childhood Obesity". <i>MBio</i> , 2019, 10, .	1.8	0
66	What The HIV-Associated Gut Microbiome May Tell As about The Role of The Adaptive Immune System in Matching Our Gut Microbes to Our Diet. <i>FASEB Journal</i> , 2015, 29, 105.2.	0.2	0
67	A Summary of the Sixth International Workshop on Microbiome in HIV Pathogenesis, Prevention, and Treatment. <i>AIDS Research and Human Retroviruses</i> , 2022, 38, 173-180.	0.5	0