

# Donovan H Parks

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

47,304  
citations

76326

40  
h-index

144013

57  
g-index

78  
all docs

78  
docs citations

78  
times ranked

40018  
citing authors

#	ARTICLE	IF	CITATIONS
1	Introducing mothur: Open-Source, Platform-Independent, Community-Supported Software for Describing and Comparing Microbial Communities. <i>Applied and Environmental Microbiology</i> , 2009, 75, 7537-7541.	3.1	18,390
2	CheckM: assessing the quality of microbial genomes recovered from isolates, single cells, and metagenomes. <i>Genome Research</i> , 2015, 25, 1043-1055.	5.5	7,539
3	STAMP: statistical analysis of taxonomic and functional profiles. <i>Bioinformatics</i> , 2014, 30, 3123-3124.	4.1	3,456
4	A standardized bacterial taxonomy based on genome phylogeny substantially revises the tree of life. <i>Nature Biotechnology</i> , 2018, 36, 996-1004.	17.5	2,615
5	GTDB-Tk: a toolkit to classify genomes with the Genome Taxonomy Database. <i>Bioinformatics</i> , 2020, 36, 1925-1927.	4.1	2,524
6	Minimum information about a single amplified genome (MISAG) and a metagenome-assembled genome (MIMAG) of bacteria and archaea. <i>Nature Biotechnology</i> , 2017, 35, 725-731.	17.5	1,512
7	Recovery of nearly 8,000 metagenome-assembled genomes substantially expands the tree of life. <i>Nature Microbiology</i> , 2017, 2, 1533-1542.	13.3	1,465
8	Identifying biologically relevant differences between metagenomic communities. <i>Bioinformatics</i> , 2010, 26, 715-721.	4.1	916
9	A complete domain-to-species taxonomy for Bacteria and Archaea. <i>Nature Biotechnology</i> , 2020, 38, 1079-1086.	17.5	883
10	Proposal to reclassify the proteobacterial classes Deltaproteobacteria and Oligoflexia, and the phylum Thermodesulfobacteria into four phyla reflecting major functional capabilities. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 5972-6016.	1.7	830
11	Methane metabolism in the archaeal phylum Bathyarchaeota revealed by genome-centric metagenomics. <i>Science</i> , 2015, 350, 434-438.	12.6	677
12	GTDB: an ongoing census of bacterial and archaeal diversity through a phylogenetically consistent, rank normalized and complete genome-based taxonomy. <i>Nucleic Acids Research</i> , 2022, 50, D785-D794.	14.5	662
13	A unified catalog of 204,938 reference genomes from the human gut microbiome. <i>Nature Biotechnology</i> , 2021, 39, 105-114.	17.5	628
14	Methylotrophic methanogenesis discovered in the archaeal phylum Verstraetearchaeota. <i>Nature Microbiology</i> , 2016, 1, 16170.	13.3	459
15	Comparative Genomic Analysis of the Class Epsilonproteobacteria and Proposed Reclassification to Epsilonbacteraeota (phyl. nov.). <i>Frontiers in Microbiology</i> , 2017, 8, 682.	3.5	409
16	An evolving view of methane metabolism in the Archaea. <i>Nature Reviews Microbiology</i> , 2019, 17, 219-232.	28.6	350
17	On the origins of oxygenic photosynthesis and aerobic respiration in Cyanobacteria. <i>Science</i> , 2017, 355, 1436-1440.	12.6	344
18	An Expanded Genomic Representation of the Phylum Cyanobacteria. <i>Genome Biology and Evolution</i> , 2014, 6, 1031-1045.	2.5	326

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19	GroopM: an automated tool for the recovery of population genomes from related metagenomes. PeerJ, 2014, 2, e603.	2.0	254
20	AnnoTree: visualization and exploration of a functionally annotated microbial tree of life. Nucleic Acids Research, 2019, 47, 4442-4448.	14.5	220
21	A standardized archaeal taxonomy for the Genome Taxonomy Database. Nature Microbiology, 2021, 6, 946-959.	13.3	198
22	A phylogenomic and ecological analysis of the globally abundant Marine Group II archaea ( <i>Candidatus</i> Thaumarchaeum group II). Nature Microbiology, 2021, 6, 1077-1087.	9.8	158
23	First genomic insights into members of a candidate bacterial phylum responsible for wastewater bulking. PeerJ, 2015, 3, e740.	2.0	157
24	The importance of designating type material for uncultured taxa. Systematic and Applied Microbiology, 2019, 42, 15-21.	2.8	149
25	Evaluation of Background Subtraction Algorithms with Post-Processing. , 2008, , .		142
26	A Phylogenomic Analysis of the Bacterial Phylum Fibrobacteres. Frontiers in Microbiology, 2015, 6, 1469.	3.5	125
27	GenGIS: A geospatial information system for genomic data. Genome Research, 2009, 19, 1896-1904.	5.5	119
28	Comparative Genomics of Candidate Phylum TM6 Suggests That Parasitism Is Widespread and Ancestral in This Lineage. Molecular Biology and Evolution, 2016, 33, 915-927.	8.9	119
29	GenGIS 2: Geospatial Analysis of Traditional and Genetic Biodiversity, with New Gradient Algorithms and an Extensible Plugin Framework. PLoS ONE, 2013, 8, e69885.	2.5	118
30	Roadmap for naming uncultivated Archaea and Bacteria. Nature Microbiology, 2020, 5, 987-994.	13.3	115
31	A molecular survey of Australian and North American termite genera indicates that vertical inheritance is the primary force shaping termite gut microbiomes. Microbiome, 2015, 3, 5.	11.1	110
32	Back from the dead; the curious tale of the predatory cyanobacterium <i>Vampirovibrio chlorellavorus</i> . PeerJ, 2015, 3, e968.	2.0	104
33	Prokaryotic taxonomy and nomenclature in the age of big sequence data. ISME Journal, 2021, 15, 1879-1892.	9.8	87
34	Genome-Based Microbial Taxonomy Coming of Age. Cold Spring Harbor Perspectives in Biology, 2016, 8, a018085.	5.5	69
35	Evaluation of a concatenated protein phylogeny for classification of tailed double-stranded DNA viruses belonging to the order Caudovirales. Nature Microbiology, 2019, 4, 1306-1315.	13.3	69
36	Genome-Centric Analysis of Microbial Populations Enriched by Hydraulic Fracture Fluid Additives in a Coal Bed Methane Production Well. Frontiers in Microbiology, 2016, 7, 731.	3.5	67

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37	Classifying short genomic fragments from novel lineages using composition and homology. BMC Bioinformatics, 2011, 12, 328.	2.6	64
38	Rapid identification of high-confidence taxonomic assignments for metagenomic data. Nucleic Acids Research, 2012, 40, e111-e111.	14.5	57
39	Lateral Gene Transfer Drives Metabolic Flexibility in the Anaerobic Methane-Oxidizing Archaeal Family <i>Methanoperedenaceae</i> . MBio, 2020, 11, .	4.1	51
40	Chemotaxis shapes the microscale organization of the ocean's microbiome. Nature, 2022, 605, 132-138.	27.8	51
41	A catalogue of 136 microbial draft genomes from Red Sea metagenomes. Scientific Data, 2016, 3, 160050.	5.3	47
42	Measures of phylogenetic differentiation provide robust and complementary insights into microbial communities. ISME Journal, 2013, 7, 173-183.	9.8	41
43	Successional dynamics and alternative stable states in a saline activated sludge microbial community over 9 years. Microbiome, 2021, 9, 199.	11.1	33
44	Evaluation of the Microba Community Profiler for Taxonomic Profiling of Metagenomic Datasets From the Human Gut Microbiome. Frontiers in Microbiology, 2021, 12, 643682.	3.5	25
45	Culture- and metagenomics-enabled analyses of the <i>Methanosphaera</i> genus reveals their monophyletic origin and differentiation according to genome size. ISME Journal, 2018, 12, 2942-2953.	9.8	24
46	Measuring Community Similarity with Phylogenetic Networks. Molecular Biology and Evolution, 2012, 29, 3947-3958.	8.9	21
47	Evidence for non-methanogenic metabolisms in globally distributed archaeal clades basal to the <i>Methanomassiliicoccales</i> . Environmental Microbiology, 2021, 23, 340-357.	3.8	19
48	Hive: A distributed system for vision processing. , 2008, , .		15
49	Diverse sediment microbiota shape methane emission temperature sensitivity in Arctic lakes. Nature Communications, 2021, 12, 5815.	12.8	15
50	Tracking the evolution and geographic spread of Influenza A. PLOS Currents, 2009, 1, RRN1014.	1.4	10
51	Critical evaluation of faecal microbiome preservation using metagenomic analysis. ISME Communications, 2021, 1, .	4.2	8
52	Quantitative visualizations of hierarchically organized data in a geographic context. , 2009, , .		5
53	SeqMonitor: Influenza Analysis Pipeline and Visualization. PLOS Currents, 2009, 1, RRN1040.	1.4	3
54	Is local colour normalization good enough for local appearance-based classification?. Machine Vision and Applications, 2010, 21, 789-796.	2.7	1