

# Daniel H Huson

## List of Publications by Year in descending order

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81  
papers

46,739  
citations

47004

47  
h-index

62593

80  
g-index

98  
all docs

98  
docs citations

98  
times ranked

55802  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Sequence of the Human Genome. <i>Science</i> , 2001, 291, 1304-1351.	12.6	12,623
2	Fast and sensitive protein alignment using DIAMOND. <i>Nature Methods</i> , 2015, 12, 59-60.	19.0	8,761
3	Application of Phylogenetic Networks in Evolutionary Studies. <i>Molecular Biology and Evolution</i> , 2006, 23, 254-267.	8.9	7,402
4	MEGAN analysis of metagenomic data. <i>Genome Research</i> , 2007, 17, 377-386.	5.5	2,764
5	MEGAN Community Edition - Interactive Exploration and Analysis of Large-Scale Microbiome Sequencing Data. <i>PLoS Computational Biology</i> , 2016, 12, e1004957.	3.2	1,500
6	Dendroscope 3: An Interactive Tool for Rooted Phylogenetic Trees and Networks. <i>Systematic Biology</i> , 2012, 61, 1061-1067.	5.6	1,438
7	Integrative analysis of environmental sequences using MEGAN4. <i>Genome Research</i> , 2011, 21, 1552-1560.	5.5	1,245
8	Dendroscope: An interactive viewer for large phylogenetic trees. <i>BMC Bioinformatics</i> , 2007, 8, 460.	2.6	1,127
9	Common Sequence Polymorphisms Shaping Genetic Diversity in <i>Arabidopsis thaliana</i> . <i>Science</i> , 2007, 317, 338-342.	12.6	689
10	Simultaneous Assessment of Soil Microbial Community Structure and Function through Analysis of the Meta-Transcriptome. <i>PLoS ONE</i> , 2008, 3, e2527.	2.5	667
11	Metagenomics to Paleogenomics: Large-Scale Sequencing of Mammoth DNA. <i>Science</i> , 2006, 311, 392-394.	12.6	519
12	Pre-Columbian mycobacterial genomes reveal seals as a source of New World human tuberculosis. <i>Nature</i> , 2014, 514, 494-497.	27.8	506
13	Sequence and Expression Differences Underlie Functional Specialization of Arabidopsis MicroRNAs miR159 and miR319. <i>Developmental Cell</i> , 2007, 13, 115-125.	7.0	399
14	Neanderthal behaviour, diet, and disease inferred from ancient DNA in dental calculus. <i>Nature</i> , 2017, 544, 357-361.	27.8	398
15	Specificity prediction of adenylation domains in nonribosomal peptide synthetases (NRPS) using transductive support vector machines (TSVMs). <i>Nucleic Acids Research</i> , 2005, 33, 5799-5808.	14.5	388
16	MetaSim – A Sequencing Simulator for Genomics and Metagenomics. <i>PLoS ONE</i> , 2008, 3, e3373.	2.5	375
17	A Comparison of Whole-Genome Shotgun-Derived Mouse Chromosome 16 and the Human Genome. <i>Science</i> , 2002, 296, 1661-1671.	12.6	344
18	SILVA, RDP, Greengenes, NCBI and OTT – how do these taxonomies compare?. <i>BMC Genomics</i> , 2017, 18, 114.	2.8	327

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19	Systematic enumeration of crystalline networks. <i>Nature</i> , 1999, 400, 644-647.	27.8	284
20	CREST – Classification Resources for Environmental Sequence Tags. <i>PLoS ONE</i> , 2012, 7, e49334.	2.5	255
21	Effects of Surgical and Dietary Weight Loss Therapy for Obesity on Gut Microbiota Composition and Nutrient Absorption. <i>BioMed Research International</i> , 2015, 2015, 1-12.	1.9	252
22	Reference-guided assembly of four diverse <i>Arabidopsis thaliana</i> genomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10249-10254.	7.1	237
23	Characterization of the Gut Microbial Community of Obese Patients Following a Weight-Loss Intervention Using Whole Metagenome Shotgun Sequencing. <i>PLoS ONE</i> , 2016, 11, e0149564.	2.5	229
24	Meeting Report: The Terabase Metagenomics Workshop and the Vision of an Earth Microbiome Project. <i>Standards in Genomic Sciences</i> , 2010, 3, 243-248.	1.5	228
25	<i>Salmonella enterica</i> genomes from victims of a major sixteenth-century epidemic in Mexico. <i>Nature Ecology and Evolution</i> , 2018, 2, 520-528.	7.8	218
26	Intestinal Dysbiosis, Barrier Dysfunction, and Bacterial Translocation Account for CKD-Related Systemic Inflammation. <i>Journal of the American Society of Nephrology: JASN</i> , 2017, 28, 76-83.	6.1	196
27	Microbial Community Analysis Using MEGAN. <i>Methods in Enzymology</i> , 2013, 531, 465-485.	1.0	178
28	A Survey of Combinatorial Methods for Phylogenetic Networks. <i>Genome Biology and Evolution</i> , 2011, 3, 23-35.	2.5	165
29	Whole-genome shotgun assembly and comparison of human genome assemblies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1916-1921.	7.1	164
30	The Antibiotic Resistant Target Seeker (ARTS), an exploration engine for antibiotic cluster prioritization and novel drug target discovery. <i>Nucleic Acids Research</i> , 2017, 45, W42-W48.	14.5	142
31	MEGAN-LR: new algorithms allow accurate binning and easy interactive exploration of metagenomic long reads and contigs. <i>Biology Direct</i> , 2018, 13, 6.	4.6	141
32	Disk-Covering, a Fast-Converging Method for Phylogenetic Tree Reconstruction. <i>Journal of Computational Biology</i> , 1999, 6, 369-386.	1.6	136
33	Evolution of <i>Arabidopsis thaliana</i> microRNAs from random sequences. <i>Rna</i> , 2008, 14, 2455-2459.	3.5	133
34	Constructing splits graphs. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2004, 1, 109-115.	3.0	120
35	Soil biochar amendment shapes the composition of N <sub>2</sub> O-reducing microbial communities. <i>Science of the Total Environment</i> , 2016, 562, 379-390.	8.0	117
36	The mitochondrial genome sequence of the Tasmanian tiger ( <i>Thylacinus cynocephalus</i> ). <i>Genome Research</i> , 2009, 19, 213-220.	5.5	102

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37	Comparative analysis of four Campylobacterales. <i>Nature Reviews Microbiology</i> , 2004, 2, 872-885.	28.6	95
38	Tanglegrams for rooted phylogenetic trees and networks. <i>Bioinformatics</i> , 2011, 27, i248-i256.	4.1	86
39	Endotoxicity of Lipopolysaccharide as a Determinant of T-Cell-Mediated Colitis Induction in Mice. <i>Gastroenterology</i> , 2014, 146, 765-775.	1.3	86
40	Genome Sequence of <i>Galleria mellonella</i> (Greater Wax Moth). <i>Genome Announcements</i> , 2018, 6, .	0.8	76
41	Annotated bacterial chromosomes from frame-shift-corrected long-read metagenomic data. <i>Microbiome</i> , 2019, 7, 61.	11.1	69
42	Antibiotic Selection Pressure Determination through Sequence-Based Metagenomics. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 7335-7345.	3.2	61
43	Computing galled networks from real data. <i>Bioinformatics</i> , 2009, 25, i85-i93.	4.1	56
44	Fast computation of minimum hybridization networks. <i>Bioinformatics</i> , 2012, 28, 191-197.	4.1	56
45	Soil biochar amendment affects the diversity of nosZ transcripts: Implications for N <sub>2</sub> O formation. <i>Scientific Reports</i> , 2017, 7, 3338.	3.3	55
46	DIAMOND+MEGAN: Fast and Easy Taxonomic and Functional Analysis of Short and Long Microbiome Sequences. <i>Current Protocols</i> , 2021, 1, e59.	2.9	55
47	The generation and classification of tile-k-transitive tilings of the Euclidean plane, the sphere and the hyperbolic plane. <i>Geometriae Dedicata</i> , 1993, 47, 269-296.	0.3	52
48	A metagenomic-based survey of microbial (de)halogenation potential in a German forest soil. <i>Scientific Reports</i> , 2016, 6, 28958.	3.3	51
49	A poor man's BLASTX high-throughput metagenomic protein database search using PAUDA. <i>Bioinformatics</i> , 2014, 30, 38-39.	4.1	50
50	On tilings of the plane. <i>Geometriae Dedicata</i> , 1987, 24, 295.	0.3	48
51	Phylogenetic networks do not need to be complex: using fewer reticulations to represent conflicting clusters. <i>Bioinformatics</i> , 2010, 26, i124-i131.	4.1	47
52	Analysis of Domain Architecture and Phylogenetics of Family 2 Glycoside Hydrolases (GH2). <i>PLoS ONE</i> , 2016, 11, e0168035.	2.5	46
53	How Molecules Evolve in Eubacteria. <i>Molecular Biology and Evolution</i> , 2000, 17, 835-838.	8.9	45
54	Comparison of multiple metagenomes using phylogenetic networks based on ecological indices. <i>ISME Journal</i> , 2010, 4, 1236-1242.	9.8	43

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55	Phage tail-like particles are versatile bacterial nanomachines – A mini-review. <i>Journal of Advanced Research</i> , 2019, 19, 75-84.	9.5	42
56	The Orbifold Notation for Two-Dimensional Groups. <i>Structural Chemistry</i> , 2002, 13, 247-257.	2.0	41
57	Extensive Mobilome-Driven Genome Diversification in Mouse Gut-Associated <i>Bacteroides vulgatus</i> mpk. <i>Genome Biology and Evolution</i> , 2016, 8, 1197-1207.	2.5	37
58	The Isolate <i>Caproiciproducens</i> sp. 7D4C2 Produces n-Caproate at Mildly Acidic Conditions From Hexoses: Genome and rBOX Comparison With Related Strains and Chain-Elongating Bacteria. <i>Frontiers in Microbiology</i> , 2020, 11, 594524.	3.5	33
59	Fast and simple protein-alignment-guided assembly of orthologous gene families from microbiome sequencing reads. <i>Microbiome</i> , 2017, 5, 11.	11.1	31
60	Recovery of complete genomes and non-chromosomal replicons from activated sludge enrichment microbial communities with long read metagenome sequencing. <i>Npj Biofilms and Microbiomes</i> , 2021, 7, 23.	6.4	29
61	Summarizing Multiple Gene Trees Using Cluster Networks. <i>Lecture Notes in Computer Science</i> , 2008, , 296-305.	1.3	27
62	Filtered Z-Closure Supernetworks for Extracting and Visualizing Recurrent Signal from Incongruent Gene Trees. <i>Systematic Biology</i> , 2008, 57, 939-947.	5.6	24
63	Introduction to the Analysis of Environmental Sequences: Metagenomics with MEGAN. <i>Methods in Molecular Biology</i> , 2019, 1910, 591-604.	0.9	23
64	RiboTagger: fast and unbiased 16S/18S profiling using whole community shotgun metagenomic or metatranscriptome surveys. <i>BMC Bioinformatics</i> , 2016, 17, 508.	2.6	22
65	Improved Layout of Phylogenetic Networks. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2008, 5, 472-479.	3.0	19
66	Enriched Environmental Conditions Modify the Gut Microbiome Composition and Fecal Markers of Inflammation in Parkinson’s Disease. <i>Frontiers in Neuroscience</i> , 2019, 13, 1032.	2.8	17
67	Identifying a species tree subject to random lateral gene transfer. <i>Journal of Theoretical Biology</i> , 2013, 322, 81-93.	1.7	16
68	Drawing Rooted Phylogenetic Networks. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2009, 6, 103-109.	3.0	12
69	Functional Analysis in Metagenomics Using MEGAN 6. , 2017, , 65-74.		12
70	Two-dimensional groups, orbifolds and tilings. <i>Geometriae Dedicata</i> , 1996, 60, 89.	0.3	11
71	Autumn Algorithm – Computation of Hybridization Networks for Realistic Phylogenetic Trees. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2018, 15, 398-410.	3.0	11
72	Using AnnoTree to Get More Assignments, Faster, in DIAMOND+MEGAN Microbiome Analysis. <i>MSystems</i> , 2022, 7, e0140821.	3.8	11

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73	On the Application of Advanced Machine Learning Methods to Analyze Enhanced, Multimodal Data from Persons Infected with COVID-19. <i>Computation</i> , 2021, 9, 4.	2.0	10
74	Orbifold Triangulations and Crystallographic Groups. <i>Periodica Mathematica Hungarica</i> , 1997, 34, 29-55.	0.9	7
75	Microbial Phylogenetic Context Using Phylogenetic Outlines. <i>Genome Biology and Evolution</i> , 2021, 13, .	2.5	6
76	Normalising phylogenetic networks. <i>Molecular Phylogenetics and Evolution</i> , 2021, 163, 107215.	2.7	6
77	Interactive analysis of biosurfactants in fruit-waste fermentation samples using BioSurfDB and MEGAN. <i>Scientific Reports</i> , 2022, 12, 7769.	3.3	3
78	MAIRA- real-time taxonomic and functional analysis of long reads on a laptop. <i>BMC Bioinformatics</i> , 2020, 21, 390.	2.6	2
79	Interplay of Various Evolutionary Modes in Genome Diversification and Adaptive Evolution of the Family Sulfolobaceae. <i>Frontiers in Microbiology</i> , 2021, 12, 639995.	3.5	2
80	Tegula “exploring a galaxy of two-dimensional periodic tilings. <i>Computer Aided Geometric Design</i> , 2021, 90, 102027.	1.2	2
81	A simple statistical test of taxonomic or functional homogeneity using replicated microbiome sequencing samples. <i>Journal of Biotechnology</i> , 2017, 250, 45-50.	3.8	1