

# Daniel H Huson

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3813693/daniel-h-huson-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89  
papers

33,928  
citations

45  
h-index

98  
g-index

98  
ext. papers

42,077  
ext. citations

9.4  
avg, IF

7.45  
L-index

#	Paper	IF	Citations
89	The sequence of the human genome. <i>Science</i> , <b>2001</b> , 291, 1304-51	33.3	10609
88	Application of phylogenetic networks in evolutionary studies. <i>Molecular Biology and Evolution</i> , <b>2006</b> , 23, 254-67	8.3	5807
87	Fast and sensitive protein alignment using DIAMOND. <i>Nature Methods</i> , <b>2015</b> , 12, 59-60	21.6	4165
86	MEGAN analysis of metagenomic data. <i>Genome Research</i> , <b>2007</b> , 17, 377-86	9.7	2078
85	Dendroscope 3: an interactive tool for rooted phylogenetic trees and networks. <i>Systematic Biology</i> , <b>2012</b> , 61, 1061-7	8.4	1033
84	Integrative analysis of environmental sequences using MEGAN4. <i>Genome Research</i> , <b>2011</b> , 21, 1552-60	9.7	1019
83	Dendroscope: An interactive viewer for large phylogenetic trees. <i>BMC Bioinformatics</i> , <b>2007</b> , 8, 460	3.6	952
82	MEGAN Community Edition - Interactive Exploration and Analysis of Large-Scale Microbiome Sequencing Data. <i>PLoS Computational Biology</i> , <b>2016</b> , 12, e1004957	5	836
81	Common sequence polymorphisms shaping genetic diversity in <i>Arabidopsis thaliana</i> . <i>Science</i> , <b>2007</b> , 317, 338-42	33.3	596
80	Simultaneous assessment of soil microbial community structure and function through analysis of the meta-transcriptome. <i>PLoS ONE</i> , <b>2008</b> , 3, e2527	3.7	558
79	Metagenomics to paleogenomics: large-scale sequencing of mammoth DNA. <i>Science</i> , <b>2006</b> , 311, 392-4	33.3	435
78	Pre-Columbian mycobacterial genomes reveal seals as a source of New World human tuberculosis. <i>Nature</i> , <b>2014</b> , 514, 494-7	50.4	358
77	Specificity prediction of adenylation domains in nonribosomal peptide synthetases (NRPS) using transductive support vector machines (TSVMs). <i>Nucleic Acids Research</i> , <b>2005</b> , 33, 5799-808	20.1	352
76	Sequence and expression differences underlie functional specialization of <i>Arabidopsis</i> microRNAs miR159 and miR319. <i>Developmental Cell</i> , <b>2007</b> , 13, 115-25	10.2	306
75	MetaSim: a sequencing simulator for genomics and metagenomics. <i>PLoS ONE</i> , <b>2008</b> , 3, e3373	3.7	305
74	A comparison of whole-genome shotgun-derived mouse chromosome 16 and the human genome. <i>Science</i> , <b>2002</b> , 296, 1661-71	33.3	305
73	Neanderthal behaviour, diet, and disease inferred from ancient DNA in dental calculus. <i>Nature</i> , <b>2017</b> , 544, 357-361	50.4	263

72	Systematic enumeration of crystalline networks. <i>Nature</i> , <b>1999</b> , 400, 644-647	50.4	249
71	Phylogenetic Networks: Concepts, Algorithms and Applications <b>2010</b> ,		223
70	SILVA, RDP, Greengenes, NCBI and OTT - how do these taxonomies compare?. <i>BMC Genomics</i> , <b>2017</b> , 18, 114	4.5	201
69	Effects of surgical and dietary weight loss therapy for obesity on gut microbiota composition and nutrient absorption. <i>BioMed Research International</i> , <b>2015</b> , 2015, 806248	3	190
68	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> , <b>2011</b> , 108, 10249-54	11.5	190
67	Meeting report: the terabase metagenomics workshop and the vision of an Earth microbiome project. <i>Standards in Genomic Sciences</i> , <b>2010</b> , 3, 243-8		187
66	CREST--classification resources for environmental sequence tags. <i>PLoS ONE</i> , <b>2012</b> , 7, e49334	3.7	167
65	Characterization of the Gut Microbial Community of Obese Patients Following a Weight-Loss Intervention Using Whole Metagenome Shotgun Sequencing. <i>PLoS ONE</i> , <b>2016</b> , 11, e0149564	3.7	146
64	Microbial community analysis using MEGAN. <i>Methods in Enzymology</i> , <b>2013</b> , 531, 465-85	1.7	144
63	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> , <b>2004</b> , 101, 1916-21	11.5	142
62	A survey of combinatorial methods for phylogenetic networks. <i>Genome Biology and Evolution</i> , <b>2011</b> , 3, 23-35	3.9	138
61	Intestinal Dysbiosis, Barrier Dysfunction, and Bacterial Translocation Account for CKD-Related Systemic Inflammation. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2017</b> , 28, 76-83	12.7	127
60	<i>Salmonella enterica</i> genomes from victims of a major sixteenth-century epidemic in Mexico. <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 520-528	12.3	124
59	Evolution of <i>Arabidopsis thaliana</i> microRNAs from random sequences. <i>Rna</i> , <b>2008</b> , 14, 2455-9	5.8	110
58	Disk-covering, a fast-converging method for phylogenetic tree reconstruction. <i>Journal of Computational Biology</i> , <b>1999</b> , 6, 369-86	1.7	109
57	The Antibiotic Resistant Target Seeker (ARTS), an exploration engine for antibiotic cluster prioritization and novel drug target discovery. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, W42-W48	20.1	96
56	Soil biochar amendment shapes the composition of N <sub>2</sub> O-reducing microbial communities. <i>Science of the Total Environment</i> , <b>2016</b> , 562, 379-390	10.2	86
55	MEGAN-LR: new algorithms allow accurate binning and easy interactive exploration of metagenomic long reads and contigs. <i>Biology Direct</i> , <b>2018</b> , 13, 6	7.2	83

54	The mitochondrial genome sequence of the Tasmanian tiger ( <i>Thylacinus cynocephalus</i> ). <i>Genome Research</i> , <b>2009</b> , 19, 213-20	9.7	83
53	Constructing splits graphs. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2004</b> , 1, 109-15	3	82
52	Comparative analysis of four Campylobacterales. <i>Nature Reviews Microbiology</i> , <b>2004</b> , 2, 872-85	22.2	80
51	Tanglegrams for rooted phylogenetic trees and networks. <i>Bioinformatics</i> , <b>2011</b> , 27, i248-56	7.2	66
50	Genome Sequence of (Greater Wax Moth). <i>Genome Announcements</i> , <b>2018</b> , 6,		53
49	Endotoxicity of lipopolysaccharide as a determinant of T-cell-mediated colitis induction in mice. <i>Gastroenterology</i> , <b>2014</b> , 146, 765-75	13.3	51
48	MALT: Fast alignment and analysis of metagenomic DNA sequence data applied to the Tyrolean Iceman		51
47	Computing galled networks from real data. <i>Bioinformatics</i> , <b>2009</b> , 25, i85-93	7.2	49
46	Antibiotic Selection Pressure Determination through Sequence-Based Metagenomics. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2015</b> , 59, 7335-45	5.9	47
45	The generation and classification of tile-k-transitive tilings of the Euclidean plane, the sphere and the hyperbolic plane. <i>Geometriae Dedicata</i> , <b>1993</b> , 47, 269-296	0.5	45
44	A poor man's BLASTX--high-throughput metagenomic protein database search using PAUDA. <i>Bioinformatics</i> , <b>2014</b> , 30, 38-9	7.2	43
43	How molecules evolve in eubacteria. <i>Molecular Biology and Evolution</i> , <b>2000</b> , 17, 835-8	8.3	42
42	Phylogenetic networks do not need to be complex: using fewer reticulations to represent conflicting clusters. <i>Bioinformatics</i> , <b>2010</b> , 26, i124-31	7.2	40
41	Comparison of multiple metagenomes using phylogenetic networks based on ecological indices. <i>ISME Journal</i> , <b>2010</b> , 4, 1236-42	11.9	39
40	Soil biochar amendment affects the diversity of nosZ transcripts: Implications for NO formation. <i>Scientific Reports</i> , <b>2017</b> , 7, 3338	4.9	36
39	Fast computation of minimum hybridization networks. <i>Bioinformatics</i> , <b>2012</b> , 28, 191-7	7.2	36
38	The Orbifold Notation for Two-Dimensional Groups. <i>Structural Chemistry</i> , <b>2002</b> , 13, 247-257	1.8	34
37	On tilings of the plane. <i>Geometriae Dedicata</i> , <b>1987</b> , 24, 295	0.5	32

36	Annotated bacterial chromosomes from frame-shift-corrected long-read metagenomic data. <i>Microbiome</i> , <b>2019</b> , 7, 61	16.6	31
35	A metagenomic-based survey of microbial (de)halogenation potential in a German forest soil. <i>Scientific Reports</i> , <b>2016</b> , 6, 28958	4.9	29
34	Fast and simple protein-alignment-guided assembly of orthologous gene families from microbiome sequencing reads. <i>Microbiome</i> , <b>2017</b> , 5, 11	16.6	23
33	Filtered Z-closure supernetworks for extracting and visualizing recurrent signal from incongruent gene trees. <i>Systematic Biology</i> , <b>2008</b> , 57, 939-47	8.4	22
32	Summarizing Multiple Gene Trees Using Cluster Networks. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 296-305	3.5	20
31	RiboTagger: fast and unbiased 16S/18S profiling using whole community shotgun metagenomic or metatranscriptome surveys. <i>BMC Bioinformatics</i> , <b>2016</b> , 17, 508	3.6	18
30	Analysis of Domain Architecture and Phylogenetics of Family 2 Glycoside Hydrolases (GH2). <i>PLoS ONE</i> , <b>2016</b> , 11, e0168035	3.7	18
29	Extensive Mobilome-Driven Genome Diversification in Mouse Gut-Associated <i>Bacteroides vulgatus</i> mpk. <i>Genome Biology and Evolution</i> , <b>2016</b> , 8, 1197-207	3.9	17
28	Phage tail-like particles are versatile bacterial nanomachines - A mini-review. <i>Journal of Advanced Research</i> , <b>2019</b> , 19, 75-84	13	15
27	Identifying a species tree subject to random lateral gene transfer. <i>Journal of Theoretical Biology</i> , <b>2013</b> , 322, 81-93	2.3	13
26	Improved layout of phylogenetic networks. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2008</b> , 5, 472-479	3	13
25	Drawing rooted phylogenetic networks. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2009</b> , 6, 103-9	3	12
24	Salmonella entericagenomes recovered from victims of a major 16th century epidemic in Mexico		11
23	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> , <b>2021</b> , 7, 23	8.2	10
22	Autumn Algorithm-Computation of Hybridization Networks for Realistic Phylogenetic Trees. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2018</b> , 15, 398-410	3	9
21	DIAMOND+MEGAN: Fast and Easy Taxonomic and Functional Analysis of Short and Long Microbiome Sequences. <i>Current Protocols</i> , <b>2021</b> , 1, e59		9
20	The Isolate sp. 7D4C2 Produces -Caproate at Mildly Acidic Conditions From Hexoses: Genome and rBOX Comparison With Related Strains and Chain-Elongating Bacteria. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 594524	5.7	9
19	Introduction to the Analysis of Environmental Sequences: Metagenomics with MEGAN. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1910, 591-604	1.4	8

18	Two-dimensional groups, orbifolds and tilings. <i>Geometriae Dedicata</i> , <b>1996</b> , 60, 89	0.5	7
17	Enriched Environmental Conditions Modify the Gut Microbiome Composition and Fecal Markers of Inflammation in Parkinson's Disease. <i>Frontiers in Neuroscience</i> , <b>2019</b> , 13, 1032	5.1	5
16	On the Application of Advanced Machine Learning Methods to Analyze Enhanced, Multimodal Data from Persons Infected with COVID-19. <i>Computation</i> , <b>2021</b> , 9, 4	2.2	5
15	Functional Analysis in Metagenomics Using MEGAN 6 <b>2017</b> , 65-74		4
14	Orbifold Triangulations and Crystallographic Groups. <i>Periodica Mathematica Hungarica</i> , <b>1997</b> , 34, 29-55	0.4	4
13	Analysis procedures for assessing recovery of high quality, complete, closed genomes from Nanopore long read metagenome sequencing		4
12	Improving recovery of member genomes from enrichment reactor microbial communities using MinION-based long read metagenomics		2
11	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		2
10	Normalising phylogenetic networks. <i>Molecular Phylogenetics and Evolution</i> , <b>2021</b> , 163, 107215	4.1	2
9	Using AnnoTree to Get More Assignments, Faster, in DIAMOND+MEGAN Microbiome Analysis.. <i>MSystems</i> , <b>2022</b> , 7, e0140821	7.6	2
8	A simple statistical test of taxonomic or functional homogeneity using replicated microbiome sequencing samples. <i>Journal of Biotechnology</i> , <b>2017</b> , 250, 45-50	3.7	1
7	Enhanced COVID-19 data for improved prediction of survival		1
6	Annotated bacterial chromosomes from frame-shift-corrected long read metagenomic data		1
5	Enriched environmental conditions modify the gut microbiome composition and fecal markers of inflammation in Parkinson's disease		1
4	MAIRA- real-time taxonomic and functional analysis of long reads on a laptop. <i>BMC Bioinformatics</i> , <b>2020</b> , 21, 390	3.6	1
3	Tegula Exploring a galaxy of two-dimensional periodic tilings. <i>Computer Aided Geometric Design</i> , <b>2021</b> , 90, 102027	1.2	1
2	Interplay of Various Evolutionary Modes in Genome Diversification and Adaptive Evolution of the Family. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 639995	5.7	0
1	Interactive analysis of biosurfactants in fruit-waste fermentation samples using BioSurfDB and MEGAN.. <i>Scientific Reports</i> , <b>2022</b> , 12, 7769	4.9	0

