

Gareth W Griffith

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/916159/publications.pdf>

Version: 2024-02-01

106
papers

17,246
citations

61984

43
h-index

31849

101
g-index

111
all docs

111
docs citations

111
times ranked

17137
citing authors

#	ARTICLE	IF	CITATIONS
1	Nuclear ribosomal internal transcribed spacer (ITS) region as a universal DNA barcode marker for <i>Fungi</i> . Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6241-6246.	7.1	4,012
2	Towards a unified paradigm for sequence-based identification of fungi. Molecular Ecology, 2013, 22, 5271-5277.	3.9	2,997
3	A higher-level phylogenetic classification of the Fungi. Mycological Research, 2007, 111, 509-547.	2.5	1,994
4	Reconstructing the early evolution of Fungi using a six-gene phylogeny. Nature, 2006, 443, 818-822.	27.8	1,625
5	The Ascomycota Tree of Life: A Phylum-wide Phylogeny Clarifies the Origin and Evolution of Fundamental Reproductive and Ecological Traits. Systematic Biology, 2009, 58, 224-239.	5.6	581
6	FungalTraits: a user-friendly traits database of fungi and fungus-like stramenopiles. Fungal Diversity, 2020, 105, 1-16.	12.3	387
7	Fungal diversity notes 111 – taxonomic and phylogenetic contributions to fungal taxa. Fungal Diversity, 2015, 75, 27-274.	12.3	375
8	A molecular phylogeny of the flagellated fungi (Chytridiomycota) and description of a new phylum (Blastocladiomycota). Mycologia, 2006, 98, 860-871.	1.9	357
9	Anaerobic fungi (phylum <i>Neocallimastigomycota</i>): advances in understanding their taxonomy, life cycle, ecology, role and biotechnological potential. FEMS Microbiology Ecology, 2014, 90, 1-17.	2.7	298
10	Finding needles in haystacks: linking scientific names, reference specimens and molecular data for Fungi. Database: the Journal of Biological Databases and Curation, 2014, 2014, bau061-bau061.	3.0	272
11	A molecular phylogeny of the flagellated fungi (Chytridiomycota) and description of a new phylum (Blastocladiomycota). Mycologia, 2006, 98, 860-871.	1.9	224
12	Preserving Accuracy in GenBank. Science, 2008, 319, 1616-1616.	12.6	198
13	Polymorphisms in <i>Phytophthora infestans</i> : Four Mitochondrial Haplotypes Are Detected after PCR Amplification of DNA from Pure Cultures or from Host Lesions. Applied and Environmental Microbiology, 1998, 64, 4007-4014.	3.1	178
14	Possible interactions between bacterial diversity, microbial activity and supraglacial hydrology of cryoconite holes in Svalbard. ISME Journal, 2011, 5, 150-160.	9.8	149
15	Dynamics of initial colonization of nonconserved perennial ryegrass by anaerobic fungi in the bovine rumen. FEMS Microbiology Ecology, 2008, 66, 537-545.	2.7	146
16	A fungal perspective on conservation biology. Conservation Biology, 2015, 29, 61-68.	4.7	125
17	The legacy effect of cover crops on soil fungal populations in a cereal rotation. Agriculture, Ecosystems and Environment, 2016, 228, 49-61.	5.3	122
18	New aspects and strategies for methane mitigation from ruminants. Applied Microbiology and Biotechnology, 2014, 98, 31-44.	3.6	120

#	ARTICLE	IF	CITATIONS
19	PCR and Omics Based Techniques to Study the Diversity, Ecology and Biology of Anaerobic Fungi: Insights, Challenges and Opportunities. <i>Frontiers in Microbiology</i> , 2017, 8, 1657.	3.5	118
20	<i>Moniliophthora perniciosa</i> , the causal agent of witches' broom disease of cacao: what's new from this old foe?. <i>Molecular Plant Pathology</i> , 2008, 9, 577-588.	4.2	116
21	Molecular phylogeny, morphology, pigment chemistry and ecology in Hygrophoraceae (Agaricales). <i>Fungal Diversity</i> , 2014, 64, 1-99.	12.3	108
22	Migration of heavy metals in soil as influenced by compost amendments. <i>Environmental Pollution</i> , 2010, 158, 55-64.	7.5	106
23	<i>Buwchfawromyces eastonii</i> gen. nov., sp. nov.: a new anaerobic fungus (Neocallimastigomycota) isolated from buffalo faeces. <i>MycKeys</i> , 0, 9, 11-28.	1.9	95
24	Identification and characterization of high-flux-control genes of yeast through competition analyses in continuous cultures. <i>Nature Genetics</i> , 2008, 40, 113-117.	21.4	93
25	Coupled cryoconite ecosystem structure-function relationships are revealed by comparing bacterial communities in alpine and Arctic glaciers. <i>FEMS Microbiology Ecology</i> , 2014, 89, 222-237.	2.7	90
26	<i>Pecoramyces ruminantium</i> , gen. nov., sp. nov., an anaerobic gut fungus from the feces of cattle and sheep. <i>Mycologia</i> , 2017, 109, 231-243.	1.9	89
27	An automated system for measuring gas production from forages inoculated with rumen fluid and its use in determining the effect of enzymes on grass silage. <i>Animal Feed Science and Technology</i> , 2000, 83, 205-221.	2.2	83
28	Factors affecting rumen methanogens and methane mitigation strategies. <i>World Journal of Microbiology and Biotechnology</i> , 2009, 25, 1557-1566.	3.6	75
29	Temperate airborne grass pollen defined by spatio-temporal shifts in community composition. <i>Nature Ecology and Evolution</i> , 2019, 3, 750-754.	7.8	75
30	Diversity of anaerobic fungal populations in cattle revealed by selective enrichment culture using different carbon sources. <i>Fungal Ecology</i> , 2009, 2, 87-97.	1.6	73
31	A new anaerobic fungus (<i>Oontomyces anksri</i> gen. nov., sp. nov.) from the digestive tract of the Indian camel (<i>Camelus dromedarius</i>). <i>Fungal Biology</i> , 2015, 119, 731-737.	2.5	71
32	Do we need a global strategy for microbial conservation?. <i>Trends in Ecology and Evolution</i> , 2012, 27, 1-2.	8.7	69
33	A distinctive fungal community inhabiting cryoconite holes on glaciers in Svalbard. <i>Fungal Ecology</i> , 2013, 6, 168-176.	1.6	66
34	The breeding biology of biotypes of the witches' broom pathogen of cocoa, <i>Crinipellis perniciosa</i> . <i>Heredity</i> , 1994, 72, 278-289.	2.6	65
35	Witches' brooms and frosty pods: Two major pathogens of cacao. <i>New Zealand Journal of Botany</i> , 2003, 41, 423-435.	1.1	64
36	Microbial diversity and activity are increased by compost amendment of metal-contaminated soil. <i>FEMS Microbiology Ecology</i> , 2010, 71, 94-105.	2.7	62

#	ARTICLE	IF	CITATIONS
37	Horizontal Gene Transfer as an Indispensable Driver for Evolution of Neocallimastigomycota into a Distinct Gut-Dwelling Fungal Lineage. Applied and Environmental Microbiology, 2019, 85, .	3.1	61
38	<i>Cyllamyces aberensis</i> gen.nov. sp.nov., a new anaerobic gut fungus with branched sporangiophores isolated from cattle. Canadian Journal of Botany, 2001, 79, 666-673.	1.1	61
39	Vacuum packing: a model system for laboratory-scale silage fermentations. Journal of Applied Microbiology, 2005, 98, 106-113.	3.1	54
40	High-Throughput Metabolic Fingerprinting of Legume Silage Fermentations via Fourier Transform Infrared Spectroscopy and Chemometrics. Applied and Environmental Microbiology, 2004, 70, 1583-1592.	3.1	52
41	A Multi-Kingdom Study Reveals the Plasticity of the Rumen Microbiota in Response to a Shift From Non-grazing to Grazing Diets in Sheep. Frontiers in Microbiology, 2019, 10, 122.	3.5	52
42	Liebetanzomyces polymorphus gen. et sp. nov., a new anaerobic fungus (Neocallimastigomycota) isolated from the rumen of a goat. MycoKeys, 2018, 40, 89-110.	1.9	52
43	Seven new Neocallimastigomycota genera from wild, zoo-housed, and domesticated herbivores greatly expand the taxonomic diversity of the phylum. Mycologia, 2020, 112, 1212-1239.	1.9	50
44	Contrasts between the cryoconite and ice-marginal bacterial communities of Svalbard glaciers. Polar Research, 2013, 32, 19468.	1.6	46
45	Role of live microbial feed supplements with reference to anaerobic fungi in ruminant productivity: A review. Journal of Integrative Agriculture, 2015, 14, 550-560.	3.5	46
46	The use of extracellular DNA as a proxy for specific microbial activity. Applied Microbiology and Biotechnology, 2018, 102, 2885-2898.	3.6	45
47	Ecology and diversity of waxcap (<i>Hygrocybe</i> spp.) Fungi. Botanical Journal of Scotland, 2002, 54, 7-22.	0.3	44
48	Copper deficiency in potato dextrose agar causes reduced pigmentation in cultures of various fungi. FEMS Microbiology Letters, 2007, 276, 165-171.	1.8	44
49	Agricultural management affects communities of culturable root-endophytic fungi in temperate grasslands. Soil Biology and Biochemistry, 2003, 35, 1143-1154.	8.8	43
50	Differentiation of Phytophthora infestans Sporangia from Other Airborne Biological Particles by Flow Cytometry. Applied and Environmental Microbiology, 2002, 68, 37-45.	3.1	41
51	The rapid differentiation of Streptomyces isolates using Fourier transform infrared spectroscopy. Vibrational Spectroscopy, 2006, 40, 213-218.	2.2	39
52	Anaerobic fungi: Neocallimastigomycota. IMA Fungus, 2010, 1, 181-185.	3.8	39
53	Presence and transcriptional activity of anaerobic fungi in agricultural biogas plants. Bioresource Technology, 2017, 235, 131-139.	9.6	39
54	Anaerobic Fungi and Their Potential for Biogas Production. Advances in Biochemical Engineering/Biotechnology, 2015, 151, 41-61.	1.1	35

#	ARTICLE	IF	CITATIONS
55	Early-diverging fungal phyla: taxonomy, species concept, ecology, distribution, anthropogenic impact, and novel phylogenetic proposals. <i>Fungal Diversity</i> , 2021, 109, 59-98.	12.3	35
56	<i>Cyllamyces aberensis</i> gen.nov. sp.nov., a new anaerobic gut fungus with branched sporangiophores isolated from cattle. <i>Canadian Journal of Botany</i> , 2001, 79, 666-673.	1.1	33
57	Maternal versus artificial rearing shapes the rumen microbiome having minor long-term physiological implications. <i>Environmental Microbiology</i> , 2019, 21, 4360-4377.	3.8	33
58	Spatial distribution of mycelia of the liana (L&C) biotype of the agaric <i>Crinipellis perniciosa</i> (Stahel) Singer in tropical forest. <i>New Phytologist</i> , 1994, 127, 243-259.	7.3	31
59	Genetic variability and chromosome-length polymorphisms of the witches' broom pathogen <i>Crinipellis perniciosa</i> from various plant hosts in South America. <i>Mycological Research</i> , 2006, 110, 821-832.	2.5	31
60	Efficient Improvement of Silage Additives by Using Genetic Algorithms. <i>Applied and Environmental Microbiology</i> , 2000, 66, 1435-1443.	3.1	28
61	Predicting the severity of the grass pollen season and the effect of climate change in Northwest Europe. <i>Science Advances</i> , 2021, 7, .	10.3	28
62	Hyphae of waxcap fungi colonise plant roots. <i>Fungal Ecology</i> , 2013, 6, 487-492.	1.6	26
63	Effect of genotype of <i>Trifolium repens</i> on mycorrhizal symbiosis with <i>Glomus mosseae</i> . <i>Journal of Agricultural Science</i> , 2001, 137, 27-36.	1.3	24
64	Spectroscopic monitoring of NO traces in plants and human breath: applications and perspectives. <i>Applied Physics B: Lasers and Optics</i> , 2013, 110, 203-211.	2.2	23
65	Genome-wide analysis of longevity in nutrient-deprived <i>Saccharomyces cerevisiae</i> reveals importance of recycling in maintaining cell viability. <i>Environmental Microbiology</i> , 2012, 14, 1249-1260.	3.8	21
66	Environmental DNA reveals links between abundance and composition of airborne grass pollen and respiratory health. <i>Current Biology</i> , 2021, 31, 1995-2003.e4.	3.9	21
67	The use of stable isotopes in fungal ecology. <i>The Mycologist</i> , 2004, 18, 177-183.	0.4	19
68	The international conservation importance of Welsh "waxcap" grasslands. <i>Mycosphere</i> , 2013, 4, 969-984.	6.1	19
69	Isotopic evidence of biotrophy and unusual nitrogen nutrition in soil-dwelling Hygrophoraceae. <i>Environmental Microbiology</i> , 2018, 20, 3573-3588.	3.8	18
70	HOMOLOGY AT THE AMINO ACID LEVEL BETWEEN PLANT PHYTOCHROMES AND A REGULATOR OF ASEXUAL SPORULATION IN <i>Emericella</i> (=Aspergillus) <i>nidulans</i> . <i>Photochemistry and Photobiology</i> , 1994, 59, 252-256.	2.5	17
71	Mycoparasitism between <i>Squamanita paradoxa</i> and <i>Cystoderma amianthinum</i> (Cystodermateae). <i>Tj ETQq1 1 0.784314 rgBT /Overlook</i>	0.8	17
72	Enumeration of methanogens with a focus on fluorescence in situ hybridization. <i>Die Naturwissenschaften</i> , 2011, 98, 457-472.	1.6	17

#	ARTICLE	IF	CITATIONS
73	Vegetation and edaphic factors influence rapid establishment of distinct fungal communities on former coal-spoil sites. <i>Fungal Ecology</i> , 2018, 33, 92-103.	1.6	16
74	Dual culture of <i>Crinipellis perniciosa</i> and potato callus. <i>European Journal of Plant Pathology</i> , 1994, 100, 371-379.	1.7	15
75	Group project work in biotechnology and its impact on key skills. <i>Journal of Biological Education</i> , 2001, 35, 133-140.	1.5	14
76	Chapter 15 Saprotrophic basidiomycetes in grasslands: Distribution and function. <i>British Mycological Society Symposia Series</i> , 2008, 28, 277-299.	0.5	14
77	Dose-dependent behavioural fever responses in desert locusts challenged with the entomopathogenic fungus <i>Metarhizium acridum</i> . <i>Scientific Reports</i> , 2018, 8, 14222.	3.3	14
78	Reclassification of <i>Parapterulicium</i> Corner (Pterulaceae, Agaricales), contributions to Lachnocladiaceae and Peniophoraceae (Russulales) and introduction of <i>Baltazaria</i> gen. nov.. <i>MycKeys</i> , 2018, 37, 39-56.	1.9	14
79	The diverse habitats of <i>Hygrocybe</i> – “peeking into an enigmatic lifestyle”. <i>Mycosphere</i> , 2013, 4, 773-792.	6.1	14
80	Use of earthworm casts to validate FT-IR spectroscopy as a “sentinel”™ technology for high-throughput monitoring of global changes in microbial ecology The 7th international symposium on earthworm ecology – Cardiff – Wales – 2002. <i>Pedobiologia</i> , 2003, 47, 440-446.	1.2	12
81	Food quality and microbial succession in ageing earthworm casts: standard microbial indices and metabolic fingerprinting The 7th international symposium on earthworm ecology – Cardiff – Wales – 2002. <i>Pedobiologia</i> , 2003, 47, 888-894.	1.2	12
82	An antibacterial hydroxy fusidic acid analogue from <i>Acremonium crotocinigenum</i> . <i>Phytochemistry</i> , 2006, 67, 2110-2114.	2.9	12
83	Enhanced Access to Rare Brain cDNAs by Prescreening Libraries: 207 New Mouse Brain ESTs. <i>Genomics</i> , 1994, 24, 456-463.	2.9	11
84	Above- and below-ground responses of <i>Calamagrostis purpurea</i> to UV-B radiation and elevated CO ₂ under phosphorus limitation. <i>Physiologia Plantarum</i> , 2012, 145, 619-628.	5.2	11
85	Reclassification of Pterulaceae Corner (Basidiomycota: Agaricales) introducing the ant-associated genus <i>Myrmecopterula</i> gen. nov., <i>Phaeopterula</i> Henn. and the corticioid <i>Radulomycetaceae</i> fam. nov.. <i>IMA Fungus</i> , 2020, 11, 2.	3.8	11
86	Taxonomy of the anaerobic gut fungi (Neocallimastigomycota): a review of classification criteria and description of current taxa. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2022, 72, .	1.7	11
87	Variation in Soil Fungal Composition Associated with the Invasion of <i>Stellera chamaejasme</i> L. in Qinghai – Tibet Plateau Grassland. <i>Microorganisms</i> , 2019, 7, 587.	3.6	10
88	Effects of manipulating the protein content of white clover on silage quality. <i>Animal Feed Science and Technology</i> , 2004, 116, 319-331.	2.2	9
89	<i>Hodophilus</i> (Clavariaceae, Agaricales) species with dark dots on the stipe: more than one species in Europe. <i>Mycological Progress</i> , 2017, 16, 811-821.	1.4	8
90	Late blight (<i>Phytophthora infestans</i>) on tomato in the tropics. <i>The Mycologist</i> , 1995, 9, 87-89.	0.4	7

#	ARTICLE	IF	CITATIONS
91	Sward management influences fruiting of grassland basidiomycete fungi. <i>Biological Conservation</i> , 2012, 145, 234-240.	4.1	7
92	Effect of biocides on the fruiting of waxcap fungi. <i>Fungal Ecology</i> , 2014, 7, 67-69.	1.6	7
93	Saprotrophic proteomes of biotypes of the witches' broom pathogen <i>Moniliophthora perniciosa</i> . <i>Fungal Biology</i> , 2017, 121, 743-753.	2.5	7
94	Increased Male-Male Mounting Behaviour in Desert Locusts during Infection with an Entomopathogenic Fungus. <i>Scientific Reports</i> , 2017, 7, 5659.	3.3	7
95	Soil stabilisation for DNA metabarcoding of plants and fungi. Implications for sampling at remote locations or via third-parties. <i>Metabarcoding and Metagenomics</i> , 0, 4, .	0.0	7
96	Wild-type and mutant alleles of the <i>Aspergillus nidulans</i> developmental regulator gene <i>brlA</i> : correlation of variant sites with protein function. <i>Molecular Genetics and Genomics</i> , 1999, 262, 892-897.	2.4	5
97	Strangler unmasked: Parasitism of <i>Cystoderma amianthinum</i> by <i>Squamanita paradoxa</i> and <i>S.Âpearsonii</i> . <i>Fungal Ecology</i> , 2019, 39, 131-141.	1.6	5
98	Mulching has negative impact on fungal and plant diversity in Slovak oligotrophic grasslands. <i>Basic and Applied Ecology</i> , 2021, 52, 24-37.	2.7	5
99	<i>Crystallicutis</i> gen. nov. (Irpicaceae, Basidiomycota), including <i>C.Âdamiettensis</i> sp. nov., found on <i>Phoenix dactylifera</i> (date palm) trunks in the Nile Delta of Egypt. <i>Fungal Biology</i> , 2021, 125, 447-458.	2.5	3
100	Earthworm-Collembola interactions affecting water-soluble nutrients, fauna and physiochemistry in a mesocosm manure-straw composting experiment. <i>Waste Management</i> , 2021, 134, 57-66.	7.4	3
101	17 The Biotechnological Potential of Anaerobic Gut Fungi. , 2020, , 413-437.		3
102	The survival of anaerobic fungi in cattle faeces. <i>FEMS Microbiology Ecology</i> , 1999, 29, 293-300.	2.7	2
103	Genome Sequence Analysis of Two <i>Pseudomonas putida</i> Strains to Identify a 17-Hydroxylase Putatively Involved in Sparteine Degradation. <i>Current Microbiology</i> , 2018, 75, 1649-1654.	2.2	1
104	Factors affecting the local distribution of <i>Polystigma rubrum stromata</i> on <i>Prunus spinosa</i> . <i>Plant Ecology and Evolution</i> , 2018, 151, 278-283.	0.7	1
105	On biodiversity. <i>New Scientist</i> , 2010, 206, 28-29.	0.0	0
106	Let's protect life's silent majority. <i>New Scientist</i> , 2012, 213, 28-29.	0.0	0