

# Gareth W Griffith

## List of Publications by Year in descending order

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106  
papers

17,246  
citations

61984

43  
h-index

31849

101  
g-index

111  
all docs

111  
docs citations

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times ranked

17137  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	<i>Crystallicutis</i> gen. nov. (Irpicaceae, Basidiomycota), including <i>C. Adamiettensis</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
6	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
7	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
8	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
9	Seven new Neocallimastigomycota genera from wild, zoo-housed, and domesticated herbivores greatly expand the taxonomic diversity of the phylum. <i>Mycologia</i> , 2020, 112, 1212-1239.	1.9	50
10	17 The Biotechnological Potential of Anaerobic Gut Fungi. , 2020, , 413-437.		3
11	FungalTraits: a user-friendly traits database of fungi and fungus-like stramenopiles. <i>Fungal Diversity</i> , 2020, 105, 1-16.	12.3	387
12	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
13	Horizontal Gene Transfer as an Indispensable Driver for Evolution of Neocallimastigomycota into a Distinct Gut-Dwelling Fungal Lineage. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	61
14	Strangler unmasked: Parasitism of <i>Cystoderma amianthinum</i> by <i>Squamanita paradoxa</i> and <i>S. Pearsonii</i> . <i>Fungal Ecology</i> , 2019, 39, 131-141.	1.6	5
15	A Multi-Kingdom Study Reveals the Plasticity of the Rumen Microbiota in Response to a Shift From Non-grazing to Grazing Diets in Sheep. <i>Frontiers in Microbiology</i> , 2019, 10, 122.	3.5	52
16	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
17	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
18	The use of extracellular DNA as a proxy for specific microbial activity. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 2885-2898.	3.6	45

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19	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
20	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
21	Isotopic evidence of biotrophy and unusual nitrogen nutrition in soil-dwelling Hygrophoraceae. <i>Environmental Microbiology</i> , 2018, 20, 3573-3588.	3.8	18
22	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
23	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
24	<i>Liebetanzomyces polymorphus</i> gen. et sp. nov., a new anaerobic fungus (Neocallimastigomycota) isolated from the rumen of a goat. <i>MycKeys</i> , 2018, 40, 89-110.	1.9	52
25	Factors affecting the local distribution of <i>Polystigma rubrum</i> stromata on <i>Prunus spinosa</i> . <i>Plant Ecology and Evolution</i> , 2018, 151, 278-283.	0.7	1
26	<i>Pecoramycetes 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	Saprotrophic proteomes of biotypes of the witches' broom pathogen <i>Moniliophthora perniciosa</i> . <i>Fungal Biology</i> , 2017, 121, 743-753.	2.5	7
28	Presence and transcriptional activity of anaerobic fungi in agricultural biogas plants. <i>Bioresource Technology</i> , 2017, 235, 131-139.	9.6	39
29	Increased Male-Male Mounting Behaviour in Desert Locusts during Infection with an Entomopathogenic Fungus. <i>Scientific Reports</i> , 2017, 7, 5659.	3.3	7
30	<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
31	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
32	The legacy effect of cover crops on soil fungal populations in a cereal rotation. <i>Agriculture, Ecosystems and Environment</i> , 2016, 228, 49-61.	5.3	122
33	Role of live microbial feed supplements with reference to anaerobic fungi in ruminant productivity: A review. <i>Journal of Integrative Agriculture</i> , 2015, 14, 550-560.	3.5	46
34	Fungal diversity notes 111 – taxonomic and phylogenetic contributions to fungal taxa. <i>Fungal Diversity</i> , 2015, 75, 27-274.	12.3	375
35	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
36	Anaerobic Fungi and Their Potential for Biogas Production. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2015, 151, 41-61.	1.1	35

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37	A fungal perspective on conservation biology. <i>Conservation Biology</i> , 2015, 29, 61-68.	4.7	125
38	Anaerobic fungi (phylum <i>Neocallimastigomycota</i> ): advances in understanding their taxonomy, life cycle, ecology, role and biotechnological potential. <i>FEMS Microbiology Ecology</i> , 2014, 90, 1-17.	2.7	298
39	New aspects and strategies for methane mitigation from ruminants. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 31-44.	3.6	120
40	Molecular phylogeny, morphology, pigment chemistry and ecology in Hygrophoraceae (Agaricales). <i>Fungal Diversity</i> , 2014, 64, 1-99.	12.3	108
41	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
42	Effect of biocides on the fruiting of waxcap fungi. <i>Fungal Ecology</i> , 2014, 7, 67-69.	1.6	7
43	Finding needles in haystacks: linking scientific names, reference specimens and molecular data for Fungi. <i>Database: the Journal of Biological Databases and Curation</i> , 2014, 2014, bau061-bau061.	3.0	272
44	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
45	Towards a unified paradigm for sequence-based identification of fungi. <i>Molecular Ecology</i> , 2013, 22, 5271-5277.	3.9	2,997
46	Hyphae of waxcap fungi colonise plant roots. <i>Fungal Ecology</i> , 2013, 6, 487-492.	1.6	26
47	A distinctive fungal community inhabiting cryoconite holes on glaciers in Svalbard. <i>Fungal Ecology</i> , 2013, 6, 168-176.	1.6	66
48	Contrasts between the cryoconite and ice-marginal bacterial communities of Svalbard glaciers. <i>Polar Research</i> , 2013, 32, 19468.	1.6	46
49	The international conservation importance of Welsh "waxcap" grasslands. <i>Mycosphere</i> , 2013, 4, 969-984.	6.1	19
50	The diverse habitats of <i>Hygrocybe</i> "peeking into an enigmatic lifestyle. <i>Mycosphere</i> , 2013, 4, 773-792.	6.1	14
51	Do we need a global strategy for microbial conservation?. <i>Trends in Ecology and Evolution</i> , 2012, 27, 1-2.	8.7	69
52	Let's protect life's silent majority. <i>New Scientist</i> , 2012, 213, 28-29.	0.0	0
53	Nuclear ribosomal internal transcribed spacer (ITS) region as a universal DNA barcode marker for <i>Fungi</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6241-6246.	7.1	4,012
54	Sward management influences fruiting of grassland basidiomycete fungi. <i>Biological Conservation</i> , 2012, 145, 234-240.	4.1	7

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55	Above- and below-ground responses of <i>Calamagrostis purpurea</i> to UV-B radiation and elevated CO <sub>2</sub> under phosphorus limitation. <i>Physiologia Plantarum</i> , 2012, 145, 619-628.	5.2	11
56	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
57	Possible interactions between bacterial diversity, microbial activity and supraglacial hydrology of cryoconite holes in Svalbard. <i>ISME Journal</i> , 2011, 5, 150-160.	9.8	149
58	Enumeration of methanogens with a focus on fluorescence in situ hybridization. <i>Die Naturwissenschaften</i> , 2011, 98, 457-472.	1.6	17
59	Anaerobic fungi: Neocallimastigomycota. <i>IMA Fungus</i> , 2010, 1, 181-185.	3.8	39
60	Mycoparasitism between <i>Squamanita paradoxa</i> and <i>Cystoderma amianthinum</i> (Cystodermataeae). <i>Trends in Microbiology</i> , 2010, 18, 100-107.	0.8	17
61	Migration of heavy metals in soil as influenced by compost amendments. <i>Environmental Pollution</i> , 2010, 158, 55-64.	7.5	106
62	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
63	On biodiversity. <i>New Scientist</i> , 2010, 206, 28-29.	0.0	0
64	Factors affecting rumen methanogens and methane mitigation strategies. <i>World Journal of Microbiology and Biotechnology</i> , 2009, 25, 1557-1566.	3.6	75
65	The Ascomycota Tree of Life: A Phylum-wide Phylogeny Clarifies the Origin and Evolution of Fundamental Reproductive and Ecological Traits. <i>Systematic Biology</i> , 2009, 58, 224-239.	5.6	581
66	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
67	Dynamics of initial colonization of nonconserved perennial ryegrass by anaerobic fungi in the bovine rumen. <i>FEMS Microbiology Ecology</i> , 2008, 66, 537-545.	2.7	146
68	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
69	<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
70	Chapter 15 Saprotrophic basidiomycetes in grasslands: Distribution and function. <i>British Mycological Society Symposia Series</i> , 2008, 28, 277-299.	0.5	14
71	Preserving Accuracy in GenBank. <i>Science</i> , 2008, 319, 1616-1616.	12.6	198
72	Copper deficiency in potato dextrose agar causes reduced pigmentation in cultures of various fungi. <i>FEMS Microbiology Letters</i> , 2007, 276, 165-171.	1.8	44

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73	A higher-level phylogenetic classification of the Fungi. <i>Mycological Research</i> , 2007, 111, 509-547.	2.5	1,994
74	A molecular phylogeny of the flagellated fungi (Chytridiomycota) and description of a new phylum (Blastocladiomycota). <i>Mycologia</i> , 2006, 98, 860-871.	1.9	224
75	Reconstructing the early evolution of Fungi using a six-gene phylogeny. <i>Nature</i> , 2006, 443, 818-822.	27.8	1,625
76	The rapid differentiation of <i>Streptomyces</i> isolates using Fourier transform infrared spectroscopy. <i>Vibrational Spectroscopy</i> , 2006, 40, 213-218.	2.2	39
77	An antibacterial hydroxy fusidic acid analogue from <i>Acremonium crotocinigenum</i> . <i>Phytochemistry</i> , 2006, 67, 2110-2114.	2.9	12
78	Genetic variability and chromosome-length polymorphisms of the witches' broom pathogen <i>Crinipellis pernicios</i> a from various plant hosts in South America. <i>Mycological Research</i> , 2006, 110, 821-832.	2.5	31
79	A molecular phylogeny of the flagellated fungi (Chytridiomycota) and description of a new phylum (Blastocladiomycota). <i>Mycologia</i> , 2006, 98, 860-871.	1.9	357
80	Vacuum packing: a model system for laboratory-scale silage fermentations. <i>Journal of Applied Microbiology</i> , 2005, 98, 106-113.	3.1	54
81	The use of stable isotopes in fungal ecology. <i>The Mycologist</i> , 2004, 18, 177-183.	0.4	19
82	High-Throughput Metabolic Fingerprinting of Legume Silage Fermentations via Fourier Transform Infrared Spectroscopy and Chemometrics. <i>Applied and Environmental Microbiology</i> , 2004, 70, 1583-1592.	3.1	52
83	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
84	Agricultural management affects communities of culturable root-endophytic fungi in temperate grasslands. <i>Soil Biology and Biochemistry</i> , 2003, 35, 1143-1154.	8.8	43
85	Witches' brooms and frosty pods: Two major pathogens of cacao. <i>New Zealand Journal of Botany</i> , 2003, 41, 423-435.	1.1	64
86	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
87	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
88	Differentiation of <i>Phytophthora infestans</i> Sporangia from Other Airborne Biological Particles by Flow Cytometry. <i>Applied and Environmental Microbiology</i> , 2002, 68, 37-45.	3.1	41
89	Ecology and diversity of waxcap ( <i>Hygrocybe</i> spp.) Fungi. <i>Botanical Journal of Scotland</i> , 2002, 54, 7-22.	0.3	44
90	Group project work in biotechnology and its impact on key skills. <i>Journal of Biological Education</i> , 2001, 35, 133-140.	1.5	14

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91	<i>Cyllumyces 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	33
92	Effect of genotype of <i>Trifolium repens</i> on mycorrhizal symbiosis with <i>Glomus mosseae</i> . Journal of Agricultural Science, 2001, 137, 27-36.	1.3	24
93	<i>Cyllumyces 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
94	Efficient Improvement of Silage Additives by Using Genetic Algorithms. Applied and Environmental Microbiology, 2000, 66, 1435-1443.	3.1	28
95	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. Animal Feed Science and Technology, 2000, 83, 205-221.	2.2	83
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. Molecular Genetics and Genomics, 1999, 262, 892-897.	2.4	5
97	The survival of anaerobic fungi in cattle faeces. FEMS Microbiology Ecology, 1999, 29, 293-300.	2.7	2
98	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
99	Late blight ( <i>Phytophthora infestans</i> ) on tomato in the tropics. The Mycologist, 1995, 9, 87-89.	0.4	7
100	Dual culture of <i>Crinipellis perniciosa</i> and potato callus. European Journal of Plant Pathology, 1994, 100, 371-379.	1.7	15
101	The breeding biology of biotypes of the witches' broom pathogen of cocoa, <i>Crinipellis perniciosa</i> . Heredity, 1994, 72, 278-289.	2.6	65
102	Spatial distribution of mycelia of the liana (L&C) biotype of the agaric <i>Crinipellis perniciosa</i> (Stahel) Singer in tropical forest. New Phytologist, 1994, 127, 243-259.	7.3	31
103	HOMOLOGY AT THE AMINO ACID LEVEL BETWEEN PLANT PHYTOCHROMES AND A REGULATOR OF ASEXUAL SPORULATION IN <i>Emericella</i> (=Aspergillus) <i>nidulans</i> . Photochemistry and Photobiology, 1994, 59, 252-256.	2.5	17
104	Enhanced Access to Rare Brain cDNAs by Prescreening Libraries: 207 New Mouse Brain ESTs. Genomics, 1994, 24, 456-463.	2.9	11
105	<i>Buwchfawromyces eastonii</i> gen. nov., sp. nov.: a new anaerobic fungus (Neocallimastigomycota) isolated from buffalo faeces. MycoKeys, 0, 9, 11-28.	1.9	95
106	Soil stabilisation for DNA metabarcoding of plants and fungi. Implications for sampling at remote locations or via third-parties. Metabarcoding and Metagenomics, 0, 4, .	0.0	7