

# Rob I Griffiths

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

12,417  
citations

61984

43  
h-index

66911

78  
g-index

91  
all docs

91  
docs citations

91  
times ranked

13951  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sustainable futures over the next decade are rooted in soil science. <i>European Journal of Soil Science</i> , 2022, 73, .	3.9	19
2	Long-Term Drought and Warming Alter Soil Bacterial and Fungal Communities in an Upland Heathland. <i>Ecosystems</i> , 2022, 25, 1279-1294.	3.4	13
3	Shrub expansion modulates belowground impacts of changing snow conditions in alpine grasslands. <i>Ecology Letters</i> , 2022, 25, 52-64.	6.4	10
4	Relative contribution of high and low elevation soil microbes and nematodes to ecosystem functioning. <i>Functional Ecology</i> , 2022, 36, 974-986.	3.6	5
5	Long-term cattle grazing shifts the ecological state of forest soils. <i>Ecology and Evolution</i> , 2022, 12, e8786.	1.9	3
6	Plants with arbuscular mycorrhizal fungi efficiently acquire Nitrogen from substrate additions by shaping the decomposer community composition and their net plant carbon demand. <i>Plant and Soil</i> , 2022, 475, 473-490.	3.7	15
7	Compound-specific amino acid <sup>15</sup> N-stable isotope probing for the quantification of biological nitrogen fixation in soils. <i>Soil Biology and Biochemistry</i> , 2022, 169, 108654.	8.8	9
8	Pasture age impacts soil fungal composition while bacteria respond to soil chemistry. <i>Agriculture, Ecosystems and Environment</i> , 2022, 330, 107900.	5.3	6
9	Soil health cluster analysis based on national monitoring of soil indicators. <i>European Journal of Soil Science</i> , 2021, 72, 2414-2429.	3.9	26
10	Bacterial and archaeal taxa are reliable indicators of soil restoration across distributed calcareous grasslands. <i>European Journal of Soil Science</i> , 2021, 72, 2430-2444.	3.9	12
11	The effect of root-associated microbes on plant growth and chemical defence traits across two contrasted elevations. <i>Journal of Ecology</i> , 2021, 109, 38-50.	4.0	4
12	Interacting effects of land use type, microbes and plant traits on soil aggregate stability. <i>Soil Biology and Biochemistry</i> , 2021, 154, 108072.	8.8	38
13	Towards a microbial process-based understanding of the resilience of peatland ecosystem service provisioning – A research agenda. <i>Science of the Total Environment</i> , 2021, 759, 143467.	8.0	15
14	Climate change alters temporal dynamics of alpine soil microbial functioning and biogeochemical cycling via earlier snowmelt. <i>ISME Journal</i> , 2021, 15, 2264-2275.	9.8	51
15	Comparison of greenhouse gas fluxes from tropical forests and oil palm plantations on mineral soil. <i>Biogeosciences</i> , 2021, 18, 1559-1575.	3.3	9
16	Beyond Taxonomic Identification: Integration of Ecological Responses to a Soil Bacterial 16S rRNA Gene Database. <i>Frontiers in Microbiology</i> , 2021, 12, 682886.	3.5	6
17	Shifts in Soil Structure, Biological, and Functional Diversity Under Long-Term Carbon Deprivation. <i>Frontiers in Microbiology</i> , 2021, 12, 735022.	3.5	7
18	Effects of acidity on dissolved organic carbon in organic soil extracts, pore water and surface litters. <i>Science of the Total Environment</i> , 2020, 703, 135585.	8.0	8

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19	Environmental and microbial controls on microbial necromass recycling, an important precursor for soil carbon stabilization. <i>Communications Earth &amp; Environment</i> , 2020, 1, .	6.8	87
20	Evolution of diversity explains the impact of pre-adaptation of a focal species on the structure of a natural microbial community. <i>ISME Journal</i> , 2020, 14, 2877-2889.	9.8	9
21	Soil Fungal Community Characteristics and Mycelial Production Across a Disturbance Gradient in Lowland Dipterocarp Rainforest in Borneo. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	2.3	6
22	Rhizosphere bacteria are more strongly related to plant root traits than fungi in temperate montane forests: insights from closed and open forest patches along an elevational gradient. <i>Plant and Soil</i> , 2020, 450, 183-200.	3.7	24
23	Harnessing rhizosphere microbiomes for drought-resilient crop production. <i>Science</i> , 2020, 368, 270-274.	12.6	442
24	Zones of influence for soil organic matter dynamics: A conceptual framework for data and models. <i>Global Change Biology</i> , 2019, 25, 3996-4007.	9.5	13
25	Persistence of dissolved organic matter explained by molecular changes during its passage through soil. <i>Nature Geoscience</i> , 2019, 12, 755-761.	12.9	230
26	Primer and Database Choice Affect Fungal Functional but Not Biological Diversity Findings in a National Soil Survey. <i>Frontiers in Environmental Science</i> , 2019, 7, .	3.3	26
27	pH and exchangeable aluminum are major regulators of microbial energy flow and carbon use efficiency in soil microbial communities. <i>Soil Biology and Biochemistry</i> , 2019, 138, 107584.	8.8	124
28	The pH optimum of soil exoenzymes adapt to long term changes in soil pH. <i>Soil Biology and Biochemistry</i> , 2019, 138, 107601.	8.8	73
29	Soil parameters, land use, and geographical distance drive soil bacterial communities along a European transect. <i>Scientific Reports</i> , 2019, 9, 605.	3.3	56
30	Soil microbial communities with greater investment in resource acquisition have lower growth yield. <i>Soil Biology and Biochemistry</i> , 2019, 132, 36-39.	8.8	98
31	Grassland biodiversity restoration increases resistance of carbon fluxes to drought. <i>Journal of Applied Ecology</i> , 2019, 56, 1806-1816.	4.0	25
32	Divergent national-scale trends of microbial and animal biodiversity revealed across diverse temperate soil ecosystems. <i>Nature Communications</i> , 2019, 10, 1107.	12.8	104
33	Detecting macroecological patterns in bacterial communities across independent studies of global soils. <i>Nature Microbiology</i> , 2018, 3, 189-196.	13.3	136
34	Impacts of Climate Change on Soil Microbial Communities and Their Functioning. <i>Developments in Soil Science</i> , 2018, 35, 111-129.	0.5	14
35	Land use driven change in soil pH affects microbial carbon cycling processes. <i>Nature Communications</i> , 2018, 9, 3591.	12.8	380
36	Soil bacterial networks are less stable under drought than fungal networks. <i>Nature Communications</i> , 2018, 9, 3033.	12.8	992

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37	Seasonality alters drivers of soil enzyme activity in subalpine grassland soil undergoing climate change. <i>Soil Biology and Biochemistry</i> , 2018, 124, 266-274.	8.8	13
38	Soil networks become more connected and take up more carbon as nature restoration progresses. <i>Nature Communications</i> , 2017, 8, 14349.	12.8	555
39	Legacy effects of drought on plant–soil feedbacks and plant–plant interactions. <i>New Phytologist</i> , 2017, 215, 1413-1424.	7.3	213
40	Bacterial Physiological Adaptations to Contrasting Edaphic Conditions Identified Using Landscape Scale Metagenomics. <i>MBio</i> , 2017, 8, .	4.1	46
41	Soil Fungal:Bacterial Ratios Are Linked to Altered Carbon Cycling. <i>Frontiers in Microbiology</i> , 2016, 7, 1247.	3.5	292
42	Differences in soil microeukaryotic communities over soil pH gradients are strongly driven by parasites and saprotrophs. <i>Environmental Microbiology</i> , 2016, 18, 2010-2024.	3.8	94
43	Selecting cost effective and policy-relevant biological indicators for European monitoring of soil biodiversity and ecosystem function. <i>Ecological Indicators</i> , 2016, 69, 213-223.	6.3	80
44	Global change pressures on soils from land use and management. <i>Global Change Biology</i> , 2016, 22, 1008-1028.	9.5	605
45	Mapping and validating predictions of soil bacterial biodiversity using European and national scale datasets. <i>Applied Soil Ecology</i> , 2016, 97, 61-68.	4.3	62
46	A method of establishing a transect for biodiversity and ecosystem function monitoring across Europe. <i>Applied Soil Ecology</i> , 2016, 97, 3-11.	4.3	29
47	Ecological network analysis reveals the inter-connection between soil biodiversity and ecosystem function as affected by land use across Europe. <i>Applied Soil Ecology</i> , 2016, 97, 112-124.	4.3	184
48	PIPITS: an automated pipeline for analyses of fungal internal transcribed spacer sequences from the Illumina sequencing platform. <i>Methods in Ecology and Evolution</i> , 2015, 6, 973-980.	5.2	277
49	Monitoring Soil Natural Capital and Ecosystem Services by Using Large-Scale Survey Data. , 2015, , 127-155.		2
50	Rhizosphere bacterial carbon turnover is higher in nucleic acids than membrane lipids: implications for understanding soil carbon cycling. <i>Frontiers in Microbiology</i> , 2015, 6, 268.	3.5	47
51	Biogeochemical cycles and biodiversity as key drivers of ecosystem services provided by soils. <i>Soil</i> , 2015, 1, 665-685.	4.9	249
52	Soil conditions and land use intensification effects on soil microbial communities across a range of European field sites. <i>Soil Biology and Biochemistry</i> , 2015, 88, 403-413.	8.8	151
53	Plant diversity increases soil microbial activity and soil carbon storage. <i>Nature Communications</i> , 2015, 6, 6707.	12.8	949
54	Mapping natural capital: optimising the use of national scale datasets. <i>Ecography</i> , 2015, 38, 632-638.	4.5	7

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55	Vegetation exerts a greater control on litter decomposition than climate warming in peatlands. <i>Ecology</i> , 2015, 96, 113-123.	3.2	101
56	Catchment-scale biogeography of riverine bacterioplankton. <i>ISME Journal</i> , 2015, 9, 516-526.	9.8	202
57	Plant soil interactions alter carbon cycling in an upland grassland soil. <i>Frontiers in Microbiology</i> , 2013, 4, 253.	3.5	39
58	Evaluation of the ISO Standard 11063 DNA Extraction Procedure for Assessing Soil Microbial Abundance and Community Structure. <i>PLoS ONE</i> , 2012, 7, e44279.	2.5	113
59	The bacterial biogeography of British soils. <i>Environmental Microbiology</i> , 2011, 13, 1642-1654.	3.8	753
60	Niche specialization of terrestrial archaeal ammonia oxidizers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 21206-21211.	7.1	402
61	Vegetation Affects the Relative Abundances of Dominant Soil Bacterial Taxa and Soil Respiration Rates in an Upland Grassland Soil. <i>Microbial Ecology</i> , 2010, 59, 335-343.	2.8	107
62	Field scale molecular analysis for the monitoring of bacterial community structures during on-site diesel bioremediation. <i>Bioresource Technology</i> , 2010, 101, 5235-5241.	9.6	11
63	Closely related protist strains have different grazing impacts on natural bacterial communities. <i>Environmental Microbiology</i> , 2010, 12, 3105-3113.	3.8	119
64	Protists have divergent effects on bacterial diversity along a productivity gradient. <i>Biology Letters</i> , 2010, 6, 639-642.	2.3	60
65	Effects of sieving, drying and rewetting upon soil bacterial community structure and respiration rates. <i>Journal of Microbiological Methods</i> , 2010, 83, 69-73.	1.6	58
66	Local Adaptation of Bacteriophages to Their Bacterial Hosts in Soil. <i>Science</i> , 2009, 325, 833-833.	12.6	152
67	Microbial biodiversity and ecosystem functioning under controlled conditions and in the wild. , 2009, , 121-133.		25
68	Ecological consequences of ingestion of <i>Bacillus cereus</i> on <i>Bacillus thuringiensis</i> infections and on the gut flora of a lepidopteran host. <i>Journal of Invertebrate Pathology</i> , 2008, 99, 103-111.	3.2	31
69	The sensitivity of a forest soil microbial community to acute gamma-irradiation. <i>Applied Soil Ecology</i> , 2007, 37, 1-9.	4.3	43
70	Insights into the fate of a <sup>13</sup> C labelled phenol pulse for stable isotope probing (SIP) experiments. <i>Journal of Microbiological Methods</i> , 2007, 69, 340-344.	1.6	27
71	Raman-FISH: combining stable-isotope Raman spectroscopy and fluorescence in situ hybridization for the single cell analysis of identity and function. <i>Environmental Microbiology</i> , 2007, 9, 1878-1889.	3.8	305
72	The functions and components of the Sourhope soil microbiota. <i>Applied Soil Ecology</i> , 2006, 33, 114-126.	4.3	19

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73	Stable Isotope Probing: A Critique of Its Role in Linking Phylogeny and Function. , 2006, , 205-216.		8
74	Functional and compositional comparison of two activated sludge communities remediating coking effluent. Environmental Microbiology, 2005, 7, 715-722.	3.8	73
75	<sup>13</sup> CO <sub>2</sub> pulse labelling of plants in tandem with stable isotope probing: methodological considerations for examining microbial function in the rhizosphere. Journal of Microbiological Methods, 2004, 58, 119-129.	1.6	70
76	Raman Microscopic Analysis of Single Microbial Cells. Analytical Chemistry, 2004, 76, 4452-4458.	6.5	371
77	Influence of depth and sampling time on bacterial community structure in an upland grassland soil. FEMS Microbiology Ecology, 2003, 43, 35-43.	2.7	170
78	Analysis of the microbial functional diversity within water-stressed soil communities by flow cytometric analysis and CTC+ cell sorting. Journal of Microbiological Methods, 2003, 54, 257-267.	1.6	45
79	Physiological and Community Responses of Established Grassland Bacterial Populations to Water Stress. Applied and Environmental Microbiology, 2003, 69, 6961-6968.	3.1	167
80	RNA Stable Isotope Probing, a Novel Means of Linking Microbial Community Function to Phylogeny. Applied and Environmental Microbiology, 2002, 68, 5367-5373.	3.1	527
81	Rapid Method for Coextraction of DNA and RNA from Natural Environments for Analysis of Ribosomal DNA- and rRNA-Based Microbial Community Composition. Applied and Environmental Microbiology, 2000, 66, 5488-5491.	3.1	1,422