Roger D Finlay

List of Publications by Year
in descending order

133 papers	16,964 citations	19657 61 h-index	14759 127 g-index
143 all docs	143 docs citations	143 times ranked	13168 citing authors

#	Article	IF	Citations
1	Minimizing tillage modifies fungal denitrifier communities, increases denitrification rates and enhances the genetic potential for fungal, relative to bacterial, denitrification. Soil Biology and Biochemistry, 2022, 170, 108718.	8.8	6
2	Ericaceous dwarf shrubs contribute a significant but droughtâ€sensitive fraction of soil respiration in a boreal pine forest. Journal of Ecology, 2022, 110, 1928-1941.	4.0	6
3	Root associated fungi respond more strongly than rhizosphere soil fungi to N fertilization in a boreal forest. Science of the Total Environment, 2021, 766, 142597.	8.0	14
4	A tipping point in carbon storage when forest expands into tundra is related to mycorrhizal recycling of nitrogen. Ecology Letters, 2021, 24, 1193-1204.	6.4	70
5	Changes in the root fungal microbiome of strawberry following application of residues of the biofumigant oilseed radish. Applied Soil Ecology, 2021, 168, 104116.	4.3	7
6	Reviews and syntheses: Biological weathering and its consequences at different spatial levels â€“ from nanoscale to global scale. Biogeosciences, 2020, 17, 1507-1533.	3.3	58
7	Distribution patterns of fungal taxa and inferred functional traits reflect the non-uniform vertical stratification of soil microhabitats in a coastal pine forest. FEMS Microbiology Ecology, 2019, 95, .	2.7	8
8	Transcriptome Analysis Provides Novel Insights into the Capacity of the Ectomycorrhizal Fungus <i>Amanita pantherina</i> To Weather K-Containing Feldspar and Apatite. Applied and Environmental Microbiology, 2019, 85, .	3.1	16
9	Oxalotrophic bacterial assemblages in the ectomycorrhizosphere of forest trees and their effects on oxalate degradation and carbon fixation potential. Chemical Geology, 2019, 514, 54-64.	3.3	17
10	A plant perspective on nitrogen cycling in the rhizosphere. Functional Ecology, 2019, 33, 540-552.	3.6	292
11	Weathering rates in Swedish forest soils. Biogeosciences, 2019, 16, 4429-4450.	3.3	11
12	Biological enhancement of mineral weathering by <i>Pinus</i> <i>sylvestris</i> seedlings â€“ effects of plants, ectomycorrhizal fungi, and elevated CO₂. Biogeosciences, 2019, 16, 3637-3649.	3.3	8
13	Fungal strategies for dealing with environment- and agriculture-induced stresses. Fungal Biology, 2018, 122, 602-612.	2.5	52
14	Contrasting effects of ectomycorrhizal fungi on early and late stage decomposition in a boreal forest. ISME Journal, 2018, 12, 2187-2197.	9.8	112
15	Growing evidence for facultative biotrophy in saprotrophic fungi: data from microcosm tests with 201 species of woodâ€decay basidiomycetes. New Phytologist, 2017, 215, 747-755.	7.3	66
16	Immobilization of Carbon in Mycorrhizal Mycelial Biomass and Secretions. , 2017, , 413-440.		10
17	Changes in turnover rather than production regulate biomass of ectomycorrhizal fungal mycelium across a <i>Pinus sylvestris</i> chronosequence. New Phytologist, 2017, 214, 424-431.	7.3	54
18	Bacterial microbiomes of individual ectomycorrhizal <i>Pinus sylvestris</i> roots are shaped by soil horizon and differentially sensitive to nitrogen addition. Environmental Microbiology, 2017, 19, 4736-4753.	3.8	35

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19	Identifying the Active Microbiome Associated with Roots and Rhizosphere Soil of Oilseed Rape. Applied and Environmental Microbiology, 2017, 83, .	3.1	141
20	Analysis of single root tip microbiomes suggests that distinctive bacterial communities are selected by <scp><i>P</i></scp><i>inus sylvestris</i> roots colonized by different ectomycorrhizal fungi. Environmental Microbiology, 2016, 18, 1470-1483.	3.8	79
21	Fractionation and assimilation of Mg isotopes by fungi is species dependent. Environmental Microbiology Reports, 2016, 8, 956-965.	2.4	24
22	Fungal stress biology: a preface to the Fungal Stress Responses special edition. Current Genetics, 2015, 61, 231-238.	1.7	46
23	Transcriptomic changes in the plant pathogenic fungus Rhizoctonia solani AG-3 in response to the antagonistic bacteria Serratia proteamaculans and Serratia plymuthica. BMC Genomics, 2015, 16, 630.	2.8	97
24	Transcriptional responses of the bacterial antagonist <scp><i>S</i></scp><i>erratia plymuthica</i> to the fungal phytopathogen <scp><i>R</i></scp><i>hizoctonia solani</i>. Environmental Microbiology Reports, 2015, 7, 123-127.	2.4	17
25	Carbon sequestration is related to mycorrhizal fungal community shifts during longâ€term succession in boreal forests. New Phytologist, 2015, 205, 1525-1536.	7.3	477
26	Nitrogen and Carbon Reallocation in Fungal Mycelia during Decomposition of Boreal Forest Litter. PLoS ONE, 2014, 9, e92897.	2.5	58
27	Influence of Soil Type, Cultivar and Verticillium dahliae on the Structure of the Root and Rhizosphere Soil Fungal Microbiome of Strawberry. PLoS ONE, 2014, 9, e111455.	2.5	41
28	Roots and Associated Fungi Drive Long-Term Carbon Sequestration in Boreal Forest. Science, 2013, 339, 1615-1618.	12.6	1,130
29	Non-contiguous finished genome sequence of plant-growth promoting Serratia proteamaculans S4. Standards in Genomic Sciences, 2013, 8, 441-449.	1.5	26
30	Complete genome sequence of Serratia plymuthica strain AS12. Standards in Genomic Sciences, 2012, 6, 165-173.	1.5	19
31	Complete genome sequence of the plant-associated Serratia plymuthica strain AS13. Standards in Genomic Sciences, 2012, 7, 22-30.	1.5	22
32	Complete genome sequence of the rapeseed plant-growth promoting Serratia plymuthica strain AS9. Standards in Genomic Sciences, 2012, 6, 54-62.	1.5	27
33	Expression analysis of Clavata1-like and Nodulin21-like genes from Pinus sylvestris during ectomycorrhiza formation. Mycorrhiza, 2012, 22, 271-277.	2.8	20
34	Occurrence and impact of the root-rot biocontrol agent Phlebiopsis gigantea on soil fungal communities in Picea abies forests of northern Europe. FEMS Microbiology Ecology, 2012, 81, 438-445.	2.7	29
35	Nitrogen availability affects saprotrophic basidiomycetes decomposing pine needles in a long term laboratory study. Fungal Ecology, 2011, 4, 408-416.	1.6	20
36	Role of Mycorrhizal Symbioses in Phosphorus Cycling. Soil Biology, 2011, , 137-168.	0.8	91

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37	Ectomycorrhizal roots select distinctive bacterial and ascomycete communities in Swedish subarctic forests. Environmental Microbiology, 2011, 13, 819-830.	3.8	42
38	Soil, But Not Cultivar, Shapes the Structure of Arbuscular Mycorrhizal Fungal Assemblages Associated with Strawberry. Microbial Ecology, 2011, 62, 25-35.	2.8	34
39	Fungal C translocation restricts Nâ€mineralization in heterogeneous environments. Functional Ecology, 2010, 24, 454-459.	3.6	42
40	Disruption of root carbon transport into forest humus stimulates fungal opportunists at the expense of mycorrhizal fungi. ISME Journal, 2010, 4, 872-881.	9.8	172
41	Functional diversity in arbuscular mycorrhiza â€" the role ofÂgene expression, phosphorous nutrition and symbiotic efficiency. Fungal Ecology, 2010, 3, 1-8.	1.6	139
42	Quantitative analysis of soluble exudates produced by ectomycorrhizal roots as a response to ambient and elevated CO2. Soil Biology and Biochemistry, 2009, 41, 1111-1116.	8.8	78
43	Geomycology. Fungal Biology Reviews, 2009, 23, 91-93.	4.7	7
44	Carbon flow in the rhizosphere: carbon trading at the soilâ€"root interface. Plant and Soil, 2009, 321, 5-33.	3.7	1,246
45	The role of fungi in biogenic weathering in boreal forest soils. Fungal Biology Reviews, 2009, 23, 101-106.	4.7	85
46	Approaches to modelling mineral weathering by fungi. Fungal Biology Reviews, 2009, 23, 138-144.	4.7	44
47	Quantitative analysis of root and ectomycorrhizal exudates as a response to Pb, Cd and As stress. Plant and Soil, 2008, 313, 39-54.	3.7	57
48	Community analysis of arbuscular mycorrhizal fungi and bacteria in the maize mycorrhizosphere in a long-term fertilization trial. FEMS Microbiology Ecology, 2008, 65, 323-338.	2.7	133
49	Transcriptional analysis of Pinus sylvestris roots challenged with the ectomycorrhizal fungus Laccaria bicolor. BMC Plant Biology, 2008, 8, 19.	3.6	72
50	Glucose and ammonium additions affect needle decomposition and carbon allocation by the litter degrading fungus Mycena epipterygia. Soil Biology and Biochemistry, 2008, 40, 995-999.	8.8	48
51	Quantitative analysis of exudates from soil-living basidiomycetes in pure culture as a response to lead, cadmium and arsenic stress. Soil Biology and Biochemistry, 2008, 40, 2225-2236.	8.8	36
52	Responses of oribatid mites to tree girdling and nutrient addition in boreal coniferous forests. Soil Biology and Biochemistry, 2008, 40, 2881-2890.	8.8	31
53	Heterologous array analysis in Heterobasidion: Hybridisation of cDNA arrays with probe from mycelium of S, P or F-types. Journal of Microbiological Methods, 2008, 75, 219-224.	1.6	3
54	Ecological aspects of mycorrhizal symbiosis: with special emphasis on the functional diversity of interactions involving the extraradical mycelium. Journal of Experimental Botany, 2008, 59, 1115-1126.	4.8	411

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55	Chapter 13 Responses of mycorrhizal fungi to stress. British Mycological Society Symposia Series, 2008, , 201-219.	0.5	13
56	Comparative analysis of transcript abundance in Pinus sylvestris after challenge with a saprotrophic, pathogenic or mutualistic fungus. Tree Physiology, 2008, 28, 885-897.	3.1	52
57	Seasonal Dynamics of Arbuscular Mycorrhizal Fungal Communities in Roots in a Seminatural Grassland. Applied and Environmental Microbiology, 2007, 73, 5613-5623.	3.1	125
58	Transcript profiling of a conifer pathosystem: response of Pinus sylvestris root tissues to pathogen (Heterobasidion annosum) invasion. Tree Physiology, 2007, 27, 1441-1458.	3.1	60
59	Understanding the diversity of foliar endophytic fungi: progress, challenges, and frontiers. Fungal Biology Reviews, 2007, 21, 51-66.	4.7	623
60	Botryosphaeriaceae as endophytes and latent pathogens of woody plants: diversity, ecology and impact. Fungal Biology Reviews, 2007, 21, 90-106.	4.7	647
61	Endophyte symbiosis with tall fescue: how strong are the impacts on communities and ecosystems?. Fungal Biology Reviews, 2007, 21, 107-124.	4.7	107
62	Endophytic fungi in forest trees: are they mutualists?. Fungal Biology Reviews, 2007, 21, 75-89.	4.7	446
63	Spatial separation of litter decomposition and mycorrhizal nitrogen uptake in a boreal forest. New Phytologist, 2007, 173, 611-620.	7.3	779
64	Woodâ€decay fungi in fine living roots of conifer seedlings. New Phytologist, 2007, 174, 441-446.	7.3	70
65	Influence of arbuscular mycorrhizal mycelial exudates on soil bacterial growth and community structure. FEMS Microbiology Ecology, 2007, 61, 295-304.	2.7	336
66	Afforestation of abandoned farmland with conifer seedlings inoculated with three ectomycorrhizal fungiâ€"impact on plant performance and ectomycorrhizal community. Mycorrhiza, 2007, 17, 337-348.	2.8	52
67	Forest structure and fungal endophytes. Fungal Biology Reviews, 2007, 21, 67-74.	4.7	164
68	Fungal endophytes in forests, woody plants and grassland ecosystems: diversity, functional ecology and evolution. Fungal Biology Reviews, 2007, 21, 49-50.	4.7	2
69	The biogeochemical impact of ectomycorrhizal conifers on major soil elements (Al, Fe, K and Si). Geoderma, 2006, 136, 364-377.	5.1	26
70	Integrated nutrient cycles in boreal forest ecosystems â€" the role of mycorrhizal fungi. , 2006, , 28-50.		15
71	Interactions between arbuscular mycorrhizal fungi and bacteria and their potential for stimulating plant growth. Environmental Microbiology, 2006, 8, 1-10.	3.8	567
72	Activities of chitinolytic enzymes during primary and secondary colonization of wood by basidiomycetous fungi. New Phytologist, 2006, 169, 389-397.	7.3	68

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73	Oxalate and ferricrocin exudation by the extramatrical mycelium of an ectomycorrhizal fungus in symbiosis with Pinus sylvestris. New Phytologist, 2006, 169, 367-378.	7.3	111
74	Molecular analysis of arbuscular mycorrhizal fungi colonising a semiâ€natural grassland along a fertilisation gradient. New Phytologist, 2006, 172, 159-168.	7.3	111
75	Attachment of different soil bacteria to arbuscular mycorrhizal fungal extraradical hyphae is determined by hyphal vitality and fungal species. FEMS Microbiology Letters, 2006, 254, 34-40.	1.8	197
76	Fungi in decayed roots of conifer seedlings in forest nurseries, afforested clear-cuts and abandoned farmland. Plant Pathology, 2006, 55, 117-129.	2.4	69
77	The impact of trees, ectomycorrhiza and potassium availability on simple organic compounds and dissolved organic carbon in soil. Soil Biology and Biochemistry, 2006, 38, 1912-1923.	8.8	12
78	Combined bromodeoxyuridine immunocapture and terminal-restriction fragment length polymorphism analysis highlights differences in the active soil bacterial metagenome due to Glomusâ€ƒmosseae inoculation or plant species. Environmental Microbiology, 2005, 7, 1952-1966.	3.8	99
79	Mycorrhizal symbiosis: myths, misconceptions, new perspectives and future research priorities. The Mycologist, 2005, 19, 90-95.	0.4	2
80	The carbon we do not seeâ€"the impact of low molecular weight compounds on carbon dynamics and respiration in forest soils: a review. Soil Biology and Biochemistry, 2005, 37, 1-13.	8.8	561
81	Mycelial production, spread and root colonisation by the ectomycorrhizal fungi Hebeloma crustuliniforme and Paxillus involutus under elevated atmospheric CO2. Mycorrhiza, 2005, 15, 25-31.	2.8	38
82	Fungal communities in mycorrhizal roots of conifer seedlings in forest nurseries under different cultivation systems, assessed by morphotyping, direct sequencing and mycelial isolation. Mycorrhiza, 2005, 16, 33-41.	2.8	132
83	Siderophores in forest soil solution. Biogeochemistry, 2005, 71, 247-258.	3.5	2
84	Mycorrhizal symbiosis: myths, misconceptions, new perspectives and further research priorities. The Mycologist, 2005, 19, 90.	0.4	6
85	Enzymatic Activities of Mycelia in Mycorrhizal Fungal Communities. Mycology, 2005, , 331-348.	0.5	4
86	Mycorrhizal fungi and their multifunctional roles. The Mycologist, 2004, 18, 91-96.	0.4	67
87	Carbon allocation to ectomycorrhizal roots and mycelium colonising different mineral substrates. New Phytologist, 2004, 162, 795-802.	7.3	110
88	Ecology and molecular characterization of dark septate fungi from roots, living stems, coarse and fine woody debris. Mycological Research, 2004, 108, 965-973.	2.5	109
89	Siderophores in forest soil solution. Biogeochemistry, 2004, 71, 247-258.	3.5	55
90	Mycelial growth and substrate acidification of ectomycorrhizal fungi in response to different minerals. FEMS Microbiology Ecology, 2004, 47, 31-37.	2.7	101

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91	Microbial interactions in the mycorrhizosphere and their significance for sustainable agriculture. FEMS Microbiology Ecology, 2004, 48, 1-13.	2.7	561
92	Title is missing!. Water, Air and Soil Pollution, 2003, 3, 167-188.	0.8	22
93	Title is missing!. Water, Air and Soil Pollution, 2003, 3, 63-76.	0.8	32
94	Vertical distribution of ectomycorrhizal fungal taxa in a podzol soil profile. New Phytologist, 2003, 159, 775-783.	7.3	310
95	Effects of hardened wood ash on microbial activity, plant growth and nutrient uptake by ectomycorrhizal spruce seedlings. FEMS Microbiology Ecology, 2003, 43, 121-131.	2.7	77
96	Growth and nutrient uptake of ectomycorrhizal Pinus sylvestris seedlings in a natural substrate treated with elevated Al concentrations. Tree Physiology, 2003, 23, 157-167.	3.1	44
97	SEVERE DEFOLIATION OF SCOTS PINE REDUCES REPRODUCTIVE INVESTMENT BY ECTOMYCORRHIZAL SYMBIONTS. Ecology, 2003, 84, 2051-2061.	3.2	82
98	Ectomycorrhizal colonisation of roots and ash granules in a spruce forest treated with granulated wood ash. Forest Ecology and Management, 2002, 160, 65-74.	3.2	23
99	Title is missing!. Plant and Soil, 2002, 242, 123-135.	3.7	167
100	Linking plants to rocks: ectomycorrhizal fungi mobilize nutrients from minerals. Trends in Ecology and Evolution, 2001, 16, 248-254.	8.7	627
101	(Further) links from rocks to plants: Response from Hoffland, Landeweert, Finlay, Kuyper and van Breemen. Trends in Ecology and Evolution, 2001, 16, 544.	8.7	3
102	Simultaneous, bidirectional translocation of 32 P and 33 P between wood blocks connected by mycelial cords of Hypholoma fasciculare. New Phytologist, 2001, 150, 189-194.	7.3	56
103	Elevated atmospheric CO 2 alters root symbiont community structure in forest trees. New Phytologist, 2001, 152, 431-442.	7.3	65
104	Title is missing!. Plant and Soil, 2001, 236, 129-138.	3.7	36
105	Solubilisation and colonisation of wood ash by ectomycorrhizal fungi isolated from a wood ash fertilised spruce forest. FEMS Microbiology Ecology, 2001, 35, 151-161.	2.7	52
106	Effects of resource availability on mycelial interactions and 32P transfer between a saprotrophic and an ectomycorrhizal fungus in soil microcosms. FEMS Microbiology Ecology, 2001, 38, 43-52.	2.7	85
107	Effects of resource availability on mycelial interactions and 32P transfer between a saprotrophic and an ectomycorrhizal fungus in soil microcosms. FEMS Microbiology Ecology, 2001, 38, 43-52.	2.7	3
108	Solubilisation and colonisation of wood ash by ectomycorrhizal fungi isolated from a wood ash fertilised spruce forest. FEMS Microbiology Ecology, 2001, 35, 151-161.	2.7	3

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109	Organic acids produced by mycorrhizal Pinus sylvestris exposed to elevated aluminium and heavy metal concentrations. New Phytologist, 2000, 146, 557-567.	7.3	191
110	Mycorrhizal weathering: A true case of mineral plant nutrition?. Biogeochemistry, 2000, 49, 53-67.	3.5	200
111	Effects of continuous optimal fertilization on belowground ectomycorrhizal community structure in a Norway spruce forest. Tree Physiology, 2000, 20, 599-606.	3.1	89
112	Advances in understanding the podzolization process resulting from a multidisciplinary study of three coniferous forest soils in the Nordic Countries. Geoderma, 2000, 94, 335-353.	5.1	140
113	Differential responses of ectomycorrhizal fungi to heavy metals in vitro. Mycological Research, 2000, 104, 1366-1371.	2.5	128
114	Below-ground Ectomycorrhizal Community Structure in Two Picea abies Forests in Southern Sweden. Scandinavian Journal of Forest Research, 1999, 14, 209-217.	1.4	38
115	Effects of repeated harvesting of forest residues on the ectomycorrhizal community in a Swedish spruce forest. New Phytologist, 1999, 142, 577-585.	7.3	45
116	Translocation of32P between interacting mycelia of a wood-decomposing fungus and ectomycorrhizal fungi in microcosm systems. New Phytologist, 1999, 144, 183-193.	7.3	141
117	Exudation-reabsorption in a mycorrhizal fungus, the dynamic interface for interaction with soil and soil microorganisms. Mycorrhiza, 1999, 9, 137-144.	2.8	156
118	Ectomycorrhizal community structure in a limed spruce forest. Mycological Research, 1999, 103, 501-508.	2.5	73
119	Rock-eating fungi. Nature, 1997, 389, 682-683.	27.8	450
120	Dynamics of phosphorus translocation in intact ectomycorrhizal systems: non-destructive monitoring using a Î²-scanner. FEMS Microbiology Ecology, 1996, 19, 171-180.	2.7	2
121	Nitrogen metabolism of external hyphae of the arbuscular mycorrhizal fungus Glornus intraradices. New Phytologist, 1996, 133, 705-712.	7.3	177
122	Dynamics of phosphorus translocation in intact ectomycorrhizal systems: non-destructive monitoring using a ÃŽÂ²-scanner. FEMS Microbiology Ecology, 1996, 19, 171-180.	2.7	50
123	Ectomycorrhizal mycelia reduce bacterial activity in a sandy soil. FEMS Microbiology Ecology, 1996, 21, 77-86.	2.7	76
124	Ectomycorrhizal mycelia reduce bacterial activity in a sandy soil. FEMS Microbiology Ecology, 1996, 21, 77-86.	2.7	7
125	Metabolism of [15N]Alanine in the Ectomycorrhizal Fungus Paxillus involutus. Experimental Mycology, 1995, 19, 297-304.	1.6	10
126	Nitrogen translocation between Alnus glutinosa (L.) Gaertn. seedlings inoculated with Frankia sp. and Pinus contorta Doug, ex Loud seedlings connected by a common ectomycorrhizal mycelium. New Phytologist, 1993, 124, 231-242.	7.3	102

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127	Effects of temperature and incubation time on the ability of three ectomycorrhizal fungi to colonize Pinus sylvestris roots. Mycological Research, 1992, 96, 270-272.	2.5	35
128	Utilization of organic and inorganic nitrogen sources by ectomycorrhizal fungi in pure culture and in symbiosis with Pinus contorta Dougl. ex Loud.. New Phytologist, 1992, 120, 105-115.	7.3	276
129	The influence of substrate pH on carbon translocation in ectomycorrhizal and nonâ€mycorrhizal pine seedlings. New Phytologist, 1991, 119, 235-242.	7.3	15
130	Determination of 15N-labelled ammonium and total nitrogen in plant and fungal systems using mass spectrometry. Journal of Microbiological Methods, 1990, 11, 169-176.	1.6	7
131	The effects of liming on mycelial colonization and carbon allocation in ectomycorrhizal mycelia attached to Pinus silvestris plants. Agriculture, Ecosystems and Environment, 1990, 28, 111-114.	5.3	1
132	THE STRUCTURE AND FUNCTION OF THE VEGETATIVE MYCELIUM OF ECTOMYCORRHIZAL PLANTS. I. TRANSLOCATION OF 14C-LABELLED CARBON BETWEEN PLANTS INTERCONNECTED BY A COMMON MYCELIUM. New Phytologist, 1986, 103, 143-156.	7.3	267
133	THE STRUCTURE AND FUNCTION OF THE VEGETATIVE MYCELIUM OF ECTOMYCORRHIZAL PLANTS. II. THE UPTAKE AND DISTRIBUTION OF PHOSPHORUS BY MYCELIAL STRANDS INTERCONNECTING HOST PLANTS. New Phytologist, 1986, 103, 157-165.	7.3	189