Roger D Finlay

List of Publications by Year in Descending Order

129 papers	13,487 citations	57 h-index	116 g-index
140 ext. papers	15,306 ext. citations	6.6 avg, IF	6.7 L-index

#	Paper	IF	Citations
129	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**, 108718	7.5	0
128	A tipping point in carbon storage when forest expands into tundra is related to mycorrhizal recycling of nitrogen. *Ecology Letters*, **2021**, 24, 1193-1204	10	21
127	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	10.2	4
126	Changes in the root fungal microbiome of strawberry following application of residues of the biofumigant oilseed radish. *Applied Soil Ecology*, **2021**, 168, 104116	5	1
125	Reviews and syntheses: Biological weathering and its consequences at different spatial levels from nanoscale to global scale. *Biogeosciences*, **2020**, 17, 1507-1533	4.6	29
124	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,	4.3	3
123	Transcriptome Analysis Provides Novel Insights into the Capacity of the Ectomycorrhizal Fungus To Weather K-Containing Feldspar and Apatite. *Applied and Environmental Microbiology*, **2019**, 85,	4.8	8
122	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	4.2	6
121	A plant perspective on nitrogen cycling in the rhizosphere. *Functional Ecology*, **2019**, 33, 540-552	5.6	112
120	Weathering rates in Swedish forest soils. *Biogeosciences*, **2019**, 16, 4429-4450	4.6	8
119	Biological enhancement of mineral weathering by <i>Pinus</i> <i>sylvestris</i> seedlings effects of plants, ectomycorrhizal fungi, and elevated CO₂. *Biogeosciences*, **2019**, 16, 3637-3649	4.6	4
118	Fungal strategies for dealing with environment- and agriculture-induced stresses. *Fungal Biology*, **2018**, 122, 602-612	2.8	36
117	Contrasting effects of ectomycorrhizal fungi on early and late stage decomposition in a boreal forest. *ISME Journal*, **2018**, 12, 2187-2197	11.9	73
116	Growing evidence for facultative biotrophy in saprotrophic fungi: data from microcosm tests with 201 species of wood-decay basidiomycetes. *New Phytologist*, **2017**, 215, 747-755	9.8	45
115	Immobilization of Carbon in Mycorrhizal Mycelial Biomass and Secretions **2017**, 413-440		5
114	Changes in turnover rather than production regulate biomass of ectomycorrhizal fungal mycelium across a Pinus sylvestris chronosequence. *New Phytologist*, **2017**, 214, 424-431	9.8	39
113	Bacterial microbiomes of individual ectomycorrhizal Pinus sylvestris roots are shaped by soil horizon and differentially sensitive to nitrogen addition. *Environmental Microbiology*, **2017**, 19, 4736-4753	5.2	20

112	Identifying the Active Microbiome Associated with Roots and Rhizosphere Soil of Oilseed Rape. *Applied and Environmental Microbiology*, **2017**, 83,	4.8	74
111	Analysis of single root tip microbiomes suggests that distinctive bacterial communities are selected by Pinus sylvestris roots colonized by different ectomycorrhizal fungi. *Environmental Microbiology*, **2016**, 18, 1470-83	5.2	57
110	Fractionation and assimilation of Mg isotopes by fungi is species dependent. *Environmental Microbiology Reports*, **2016**, 8, 956-965	3.7	15
109	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	4.5	48
108	Transcriptional responses of the bacterial antagonist Serratia plymuthica to the fungal phytopathogen Rhizoctonia solani. *Environmental Microbiology Reports*, **2015**, 7, 123-7	3.7	13
107	Carbon sequestration is related to mycorrhizal fungal community shifts during long-term succession in boreal forests. *New Phytologist*, **2015**, 205, 1525-1536	9.8	339
106	Nitrogen and carbon reallocation in fungal mycelia during decomposition of boreal forest litter. *PLoS ONE*, **2014**, 9, e92897	3.7	48
105	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	3.7	35
104	Roots and associated fungi drive long-term carbon sequestration in boreal forest. *Science*, **2013**, 339, 1615-8	33.3	866
103	Non-contiguous finished genome sequence of plant-growth promoting Serratia proteamaculans S4. *Standards in Genomic Sciences*, **2013**, 8, 441-9		9
102	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, 438-45	4.3	20
101	Complete genome sequence of the rapeseed plant-growth promoting Serratia plymuthica strain AS9. *Standards in Genomic Sciences*, **2012**, 6, 54-62		25
100	Expression analysis of Clavata1-like and Nodulin21-like genes from Pinus sylvestris during ectomycorrhiza formation. *Mycorrhiza*, **2012**, 22, 271-7	3.9	17
99	Complete genome sequence of Serratia plymuthica strain AS12. *Standards in Genomic Sciences*, **2012**, 6, 165-73		15
98	Complete genome sequence of the plant-associated Serratia plymuthica strain AS13. *Standards in Genomic Sciences*, **2012**, 7, 22-30		16
97	Nitrogen availability affects saprotrophic basidiomycetes decomposing pine needles in a long term laboratory study. *Fungal Ecology*, **2011**, 4, 408-416	4.1	13
96	Role of Mycorrhizal Symbioses in Phosphorus Cycling. *Soil Biology*, **2011**, 137-168	1	72
95	Ectomycorrhizal roots select distinctive bacterial and ascomycete communities in Swedish subarctic forests. *Environmental Microbiology*, **2011**, 13, 819-30	5.2	37

94	Soil, but not cultivar, shapes the structure of arbuscular mycorrhizal fungal assemblages associated with strawberry. *Microbial Ecology*, **2011**, 62, 25-35	4.4	25
93	Fungal C translocation restricts N-mineralization in heterogeneous environments. *Functional Ecology*, **2010**, 24, 454-459	5.6	34
92	Disruption of root carbon transport into forest humus stimulates fungal opportunists at the expense of mycorrhizal fungi. *ISME Journal*, **2010**, 4, 872-81	11.9	134
91	Functional diversity in arbuscular mycorrhiza the role of gene expression, phosphorous nutrition and symbiotic efficiency. *Fungal Ecology*, **2010**, 3, 1-8	4.1	108
90	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	7.5	67
89	Geomycology. *Fungal Biology Reviews*, **2009**, 23, 91-93	6.8	6
88	Carbon flow in the rhizosphere: carbon trading at the soil root interface. *Plant and Soil*, **2009**, 321, 5-33	4.2	956
87	The role of fungi in biogenic weathering in boreal forest soils. *Fungal Biology Reviews*, **2009**, 23, 101-106	6.8	66
86	Approaches to modelling mineral weathering by fungi. *Fungal Biology Reviews*, **2009**, 23, 138-144	6.8	34
85	Transcriptional analysis of Pinus sylvestris roots challenged with the ectomycorrhizal fungus Laccaria bicolor. *BMC Plant Biology*, **2008**, 8, 19	5.3	63
84	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	7.5	43
83	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	7.5	29
82	Responses of oribatid mites to tree girdling and nutrient addition in boreal coniferous forests. *Soil Biology and Biochemistry*, **2008**, 40, 2881-2890	7.5	18
81	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, 219-24	2.8	3
80	Ecological aspects of mycorrhizal symbiosis: with special emphasis on the functional diversity of interactions involving the extraradical mycelium. *Journal of Experimental Botany*, **2008**, 59, 1115-26	7	346
79	Chapter 13 Responses of mycorrhizal fungi to stress. *British Mycological Society Symposia Series*, **2008**, 201-219		10
78	Comparative analysis of transcript abundance in Pinus sylvestris after challenge with a saprotrophic, pathogenic or mutualistic fungus. *Tree Physiology*, **2008**, 28, 885-97	4.2	48
77	Quantitative analysis of root and ectomycorrhizal exudates as a response to Pb, Cd and As stress. *Plant and Soil*, **2008**, 313, 39-54	4.2	49

76	Community analysis of arbuscular mycorrhizal fungi and bacteria in the maize mycorrhizosphere in a long-term fertilization trial. *FEMS Microbiology Ecology*, **2008**, 65, 323-38	4.3	107
75	Understanding the diversity of foliar endophytic fungi: progress, challenges, and frontiers. *Fungal Biology Reviews*, **2007**, 21, 51-66	6.8	497
74	Botryosphaeriaceae as endophytes and latent pathogens of woody plants: diversity, ecology and impact. *Fungal Biology Reviews*, **2007**, 21, 90-106	6.8	456
73	Endophyte symbiosis with tall fescue: how strong are the impacts on communities and ecosystems?. *Fungal Biology Reviews*, **2007**, 21, 107-124	6.8	96
72	Endophytic fungi in forest trees: are they mutualists?. *Fungal Biology Reviews*, **2007**, 21, 75-89	6.8	346
71	Spatial separation of litter decomposition and mycorrhizal nitrogen uptake in a boreal forest. *New Phytologist*, **2007**, 173, 611-620	9.8	658
70	Wood-decay fungi in fine living roots of conifer seedlings. *New Phytologist*, **2007**, 174, 441-446	9.8	61
69	Influence of arbuscular mycorrhizal mycelial exudates on soil bacterial growth and community structure. *FEMS Microbiology Ecology*, **2007**, 61, 295-304	4.3	253
68	Afforestation of abandoned farmland with conifer seedlings inoculated with three ectomycorrhizal fungi - impact on plant performance and ectomycorrhizal community. *Mycorrhiza*, **2007**, 17, 337-348	3.9	38
67	Forest structure and fungal endophytes. *Fungal Biology Reviews*, **2007**, 21, 67-74	6.8	134
66	Fungal endophytes in forests, woody plants and grassland ecosystems: diversity, functional ecology and evolution. *Fungal Biology Reviews*, **2007**, 21, 49-50	6.8	1
65	Seasonal dynamics of arbuscular mycorrhizal fungal communities in roots in a seminatural grassland. *Applied and Environmental Microbiology*, **2007**, 73, 5613-23	4.8	105
64	Transcript profiling of a conifer pathosystem: response of Pinus sylvestris root tissues to pathogen (Heterobasidion annosum) invasion. *Tree Physiology*, **2007**, 27, 1441-58	4.2	54
63	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	7.5	11
62	The biogeochemical impact of ectomycorrhizal conifers on major soil elements (Al, Fe, K and Si). *Geoderma*, **2006**, 136, 364-377	6.7	25
61	Interactions between arbuscular mycorrhizal fungi and bacteria and their potential for stimulating plant growth. *Environmental Microbiology*, **2006**, 8, 1-10	5.2	444
60	Activities of chitinolytic enzymes during primary and secondary colonization of wood by basidiomycetous fungi. *New Phytologist*, **2006**, 169, 389-97	9.8	64
59	Oxalate and ferricrocin exudation by the extramatrical mycelium of an ectomycorrhizal fungus in symbiosis with Pinus sylvestris. *New Phytologist*, **2006**, 169, 367-77	9.8	88

58	Molecular analysis of arbuscular mycorrhizal fungi colonising a semi-natural grassland along a fertilisation gradient. *New Phytologist*, **2006**, 172, 159-68	9.8	98
57	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	2.9	161
56	Fungi in decayed roots of conifer seedlings in forest nurseries, afforested clear-cuts and abandoned farmland. *Plant Pathology*, **2006**, 55, 117-129	2.8	57
55	Combined bromodeoxyuridine immunocapture and terminal-restriction fragment length polymorphism analysis highlights differences in the active soil bacterial metagenome due to Glomus mosseae inoculation or plant species. *Environmental Microbiology*, **2005**, 7, 1952-66	5.2	88
54	Mycorrhizal symbiosis: myths, misconceptions, new perspectives and future research priorities. *The Mycologist*, **2005**, 19, 90-95		2
53	The carbon we do not see 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	7.5	473
52	Mycelial production, spread and root colonisation by the ectomycorrhizal fungi Hebeloma crustuliniforme and Paxillus involutus under elevated atmospheric CO2. *Mycorrhiza*, **2005**, 15, 25-31	3.9	32
51	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	3.9	115
50	Siderophores in forest soil solution. *Biogeochemistry*, **2005**, 71, 247-258	3.8	1
49	Mycorrhizal symbiosis: myths, misconceptions, new perspectives and further research priorities. *The Mycologist*, **2005**, 19, 90		5
48	Enzymatic Activities of Mycelia in Mycorrhizal Fungal Communities. *Mycology*, **2005**, 331-348		1
47	Mycorrhizal fungi and their multifunctional roles. *The Mycologist*, **2004**, 18, 91-96		49
46	Carbon allocation to ectomycorrhizal roots and mycelium colonising different mineral substrates. *New Phytologist*, **2004**, 162, 795-802	9.8	89
45	Ecology and molecular characterization of dark septate fungi from roots, living stems, coarse and fine woody debris. *Mycological Research*, **2004**, 108, 965-73		100
44	Siderophores in forest soil solution. *Biogeochemistry*, **2004**, 71, 247-258	3.8	53
43	Mycelial growth and substrate acidification of ectomycorrhizal fungi in response to different minerals. *FEMS Microbiology Ecology*, **2004**, 47, 31-7	4.3	86
42	Microbial interactions in the mycorrhizosphere and their significance for sustainable agriculture. *FEMS Microbiology Ecology*, **2004**, 48, 1-13	4.3	461
41	SEVERE DEFOLIATION OF SCOTS PINE REDUCES REPRODUCTIVE INVESTMENT BY ECTOMYCORRHIZAL SYMBIONTS. *Ecology*, **2003**, 84, 2051-2061	4.6	72

40	Effects of Acidification and its Mitigation with Lime and Wood Ash on Forest Soil Processes in Southern Sweden. A Joint Multidisciplinary Study. *Water, Air and Soil Pollution*, **2003**, 3, 167-188		22
39	Effects of Liming and Ash Application on Below Ground Ectomycorrhizal Community Structure in Two Norway Spruce Forests. *Water, Air and Soil Pollution*, **2003**, 3, 63-76		24
38	Vertical distribution of ectomycorrhizal fungal taxa in a podzol soil profile. *New Phytologist*, **2003**, 159, 775-783	9.8	281
37	Effects of hardened wood ash on microbial activity, plant growth and nutrient uptake by ectomycorrhizal spruce seedlings. *FEMS Microbiology Ecology*, **2003**, 43, 121-31	4.3	68
36	Growth and nutrient uptake of ectomycorrhizal Pinus sylvestris seedlings in a natural substrate treated with elevated Al concentrations. *Tree Physiology*, **2003**, 23, 157-67	4.2	36
35	Defining nutritional constraints on carbon cycling in boreal forests towards a less phytocentricQ perspective. *Plant and Soil*, **2002**, 242, 123-135	4.2	147
34	Ectomycorrhizal colonisation of roots and ash granules in a spruce forest treated with granulated wood ash. *Forest Ecology and Management*, **2002**, 160, 65-74	3.9	22
33	Simultaneous, bidirectional translocation of 32P and 33P between wood blocks connected by mycelial cords of Hypholoma fasciculare. *New Phytologist*, **2001**, 150, 189-194	9.8	51
32	Elevated atmospheric CO alters root symbiont community structure in forest trees. *New Phytologist*, **2001**, 152, 431-442	9.8	62
31	Effects of elevated nickel and cadmium concentrations on growth and nutrient uptake of mycorrhizal and non-mycorrhizal Pinus sylvestris seedlings. *Plant and Soil*, **2001**, 236, 129-138	4.2	31
30	Solubilisation and colonisation of wood ash by ectomycorrhizal fungi isolated from a wood ash fertilised spruce forest. *FEMS Microbiology Ecology*, **2001**, 35, 151-161	4.3	47
29	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	4.3	75
28	Linking plants to rocks: ectomycorrhizal fungi mobilize nutrients from minerals. *Trends in Ecology and Evolution*, **2001**, 16, 248-254	10.9	515
27	(Further) links from rocks to plants: Response from Hoffland, Landeweert, Finlay, Kuyper and van Breemen. *Trends in Ecology and Evolution*, **2001**, 16, 544	10.9	0
26	Organic acids produced by mycorrhizal Pinus sylvestris exposed to elevated aluminium and heavy metal concentrations. *New Phytologist*, **2000**, 146, 557-567	9.8	176
25	Mycorrhizal weathering: A true case of mineral plant nutrition?. *Biogeochemistry*, **2000**, 49, 53-67	3.8	157
24	Effects of continuous optimal fertilization on belowground ectomycorrhizal community structure in a Norway spruce forest. *Tree Physiology*, **2000**, 20, 599-606	4.2	80
23	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	6.7	125

22	Differential responses of ectomycorrhizal fungi to heavy metals in vitro. *Mycological Research*, **2000**, 104, 1366-1371		110
21	Below-ground Ectomycorrhizal Community Structure in Two Picea abies Forests in Southern Sweden. *Scandinavian Journal of Forest Research*, **1999**, 14, 209-217	1.7	34
20	Effects of repeated harvesting of forest residues on the ectomycorrhizal community in a Swedish spruce forest. *New Phytologist*, **1999**, 142, 577-585	9.8	39
19	Translocation of 32P between interacting mycelia of a wood-decomposing fungus and ectomycorrhizal fungi in microcosm systems. *New Phytologist*, **1999**, 144, 183-193	9.8	129
18	Exudation-reabsorption in a mycorrhizal fungus, the dynamic interface for interaction with soil and soil microorganisms. *Mycorrhiza*, **1999**, 9, 137-144	3.9	135
17	Ectomycorrhizal community structure in a limed spruce forest. *Mycological Research*, **1999**, 103, 501-508		64
16	Rock-eating fungi. *Nature*, **1997**, 389, 682-683	50.4	383
15	Dynamics of phosphorus translocation in intact ectomycorrhizal systems: non-destructive monitoring using a □-scanner. *FEMS Microbiology Ecology*, **1996**, 19, 171-180	4.3	2
14	Nitrogen metabolism of external hyphae of the arbuscular mycorrhizal fungus Glornus intraradices. *New Phytologist*, **1996**, 133, 705-712	9.8	154
13	Dynamics of phosphorus translocation in intact ectomycorrhizal systems: non-destructive monitoring using a □-scanner. *FEMS Microbiology Ecology*, **1996**, 19, 171-180	4.3	37
12	Ectomycorrhizal mycelia reduce bacterial activity in a sandy soil. *FEMS Microbiology Ecology*, **1996**, 21, 77-86	4.3	68
11	Metabolism of [15N]Alanine in the Ectomycorrhizal Fungus Paxillus involutus. *Experimental Mycology*, **1995**, 19, 297-304		9
10	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	9.8	91
9	Effects of temperature and incubation time on the ability of three ectomycorrhizal fungi to colonize Pinus sylvestris roots. *Mycological Research*, **1992**, 96, 270-272		34
8	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	9.8	233
7	The influence of substrate pH on carbon translocation in ectomycorrhizal and non-mycorrhizal pine seedlings. *New Phytologist*, **1991**, 119, 235-242	9.8	13
6	Determination of 15N-labelled ammonium and total nitrogen in plant and fungal systems using mass spectrometry. *Journal of Microbiological Methods*, **1990**, 11, 169-176	2.8	5
5	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	5.7	1

4	THE STRUCTURE AND FUNCTION OF THE VEGETATIVE MYCELIUM OF ECTOMYCORRHIZAL PLANTS. *New Phytologist*, **1986**, 103, 143-156	9.8	234
3	THE STRUCTURE AND FUNCTION OF THE VEGETATIVE MYCELIUM OF ECTOMYCORRHIZAL PLANTS. *New Phytologist*, **1986**, 103, 157-165	9.8	176
2	Integrated nutrient cycles in boreal forest ecosystems the role of mycorrhizal fungi28-50		13
1	Biological weathering and its consequences at different spatial levels from nanoscale to global scale		4