Iver Jakobsen

List of Publications by Year in Descending Order

120 papers	9,179 citations	51 h-index	94 g-index
126 ext. papers	10,252 ext. citations	6.4 avg, IF	6.01 L-index

#	Paper	IF	Citations
120	Disentangling the abiotic and biotic components of AMF suppressive soils. *Soil Biology and Biochemistry*, **2021**, 159, 108305	7.5	6
119	Hormetic responses in arbuscular mycorrhizal fungi. *Soil Biology and Biochemistry*, **2021**, 159, 108299	7.5	2
118	Different sensitivity of a panel of Rhizophagus isolates to AMF-suppressive soils. *Applied Soil Ecology*, **2020**, 155, 103662	5	2
117	Suppression of arbuscular mycorrhizal fungal activity in a diverse collection of non-cultivated soils. *FEMS Microbiology Ecology*, **2019**, 95,	4.3	13
116	Direct evidence for modulation of photosynthesis by an arbuscular mycorrhiza-induced carbon sink strength. *New Phytologist*, **2019**, 223, 896-907	9.8	31
115	Soil phosphorus availability is a driver of the responses of maize (Zea mays) to elevated CO2 concentration and arbuscular mycorrhizal colonisation. *Symbiosis*, **2019**, 77, 73-82	3	9
114	Suppression of the activity of arbuscular mycorrhizal fungi by the soil microbiota. *ISME Journal*, **2018**, 12, 1296-1307	11.9	75
113	Rhizosphere yeasts improve P uptake of a maize arbuscular mycorrhizal association. *Applied Soil Ecology*, **2018**, 125, 18-25	5	12
112	Augmentation of the phosphorus fertilizer value of biochar by inoculation of wheat with selected Penicillium strains. *Soil Biology and Biochemistry*, **2018**, 116, 139-147	7.5	29
111	The roles of mycorrhiza and Penicillium inoculants in phosphorus uptake by biochar-amended wheat. *Soil Biology and Biochemistry*, **2018**, 127, 168-177	7.5	13
110	Phosphorus acquisition efficiency in arbuscular mycorrhizal maize is correlated with the abundance of root-external hyphae and the accumulation of transcripts encoding PHT1 phosphate transporters. *New Phytologist*, **2017**, 214, 632-643	9.8	144
109	Evaluation of phosphorus in thermally converted sewage sludge: P pools and availability to wheat. *Plant and Soil*, **2017**, 418, 307-317	4.2	29
108	Co-ordinated Changes in the Accumulation of Metal Ions in Maize (Zea mays ssp. mays L.) in Response to Inoculation with the Arbuscular Mycorrhizal Fungus Funneliformis mosseae. *Plant and Cell Physiology*, **2017**, 58, 1689-1699	4.9	15
107	A key role for arbuscular mycorrhiza in plant acquisition of P from sewage sludge recycled to soil. *Soil Biology and Biochemistry*, **2017**, 115, 11-20	7.5	13
106	Facilitation of phosphorus uptake in maize plants by mycorrhizosphere bacteria. *Scientific Reports*, **2017**, 7, 4686	4.9	104
105	Plant growth responses to elevated atmospheric CO2 are increased by phosphorus sufficiency but not by arbuscular mycorrhizas. *Journal of Experimental Botany*, **2016**, 67, 6173-6186	7	39
104	Heat Stress Affects Pi-related Genes Expression and Inorganic Phosphate Deposition/Accumulation in Barley. *Frontiers in Plant Science*, **2016**, 7, 926	6.2	28

103	Local and distal effects of arbuscular mycorrhizal colonization on direct pathway Pi uptake and root growth in Medicago truncatula. *Journal of Experimental Botany*, **2015**, 66, 4061-73	7	33
102	Nutrient Dynamics in Arbuscular Mycorrhizal Networks. *Ecological Studies*, **2015**, 91-131	1.1	17
101	Rhizosphere Microorganisms and Plant Phosphorus Uptake. *Agronomy*, **2015**, 437-494	0.8	14
100	A mycorrhizal fungus grows on biochar and captures phosphorus from its surfaces. *Soil Biology and Biochemistry*, **2014**, 77, 252-260	7.5	149
99	Short-term utilization of carbon by the soil microbial community under future climatic conditions in a temperate heathland. *Soil Biology and Biochemistry*, **2014**, 68, 9-19	7.5	13
98	Technical Note: Mesocosm approach to quantify dissolved inorganic carbon percolation fluxes. *Biogeosciences*, **2014**, 11, 1077-1084	4.6	5
97	A decade of free-air CO2 enrichment increased the carbon throughput in a grass-clover ecosystem but did not drastically change carbon allocation patterns. *Functional Ecology*, **2014**, 28, 538-545	5.6	14
96	Common arbuscular mycorrhizal networks amplify competition for phosphorus between seedlings and established plants. *New Phytologist*, **2013**, 200, 229-240	9.8	87
95	The interplay between P uptake pathways in mycorrhizal peas: a combined physiological and gene-silencing approach. *Physiologia Plantarum*, **2013**, 149, 234-48	4.6	25
94	Nonredundant regulation of rice arbuscular mycorrhizal symbiosis by two members of the phosphate transporter1 gene family. *Plant Cell*, **2012**, 24, 4236-51	11.6	214
93	The Role of the P1BS Element Containing Promoter-Driven Genes in Pi Transport and Homeostasis in Plants. *Frontiers in Plant Science*, **2012**, 3, 58	6.2	25
92	Sugar beet waste and its component ferulic acid inhibits external mycelium of arbuscular mycorrhizal fungus. *Soil Biology and Biochemistry*, **2011**, 43, 1456-1463	7.5	14
91	Roles of arbuscular mycorrhizas in plant phosphorus nutrition: interactions between pathways of phosphorus uptake in arbuscular mycorrhizal roots have important implications for understanding and manipulating plant phosphorus acquisition. *Plant Physiology*, **2011**, 156, 1050-7	6.6	649
90	Investigations of barley stripe mosaic virus as a gene silencing vector in barley roots and in Brachypodium distachyon and oat. *Plant Methods*, **2010**, 6, 26	5.8	64
89	Protocol: using virus-induced gene silencing to study the arbuscular mycorrhizal symbiosis in Pisum sativum. *Plant Methods*, **2010**, 6, 28	5.8	29
88	Mycorrhizal phosphate uptake pathway in tomato is phosphorus-repressible and transcriptionally regulated. *New Phytologist*, **2009**, 181, 950-959	9.8	131
87	Underground resource allocation between individual networks of mycorrhizal fungi. *New Phytologist*, **2008**, 180, 890-8	9.8	99
86	Population performance of collembolans feeding on soil fungi from different ecological niches. *Soil Biology and Biochemistry*, **2008**, 40, 360-369	7.5	38

85	Phosphate sensing by fluorescent reporter proteins embedded in polyacrylamide nanoparticles. *ACS Nano*, **2008**, 2, 19-24	16.7	41
84	Arbuscular mycorrhiza reduces phytoextraction of uranium, thorium and other elements from phosphate rock. *Journal of Environmental Radioactivity*, **2008**, 99, 811-9	2.4	11
83	Pre-inoculation with arbuscular mycorrhizal fungi increases early nutrient concentration and growth of field-grown leeks under high productivity conditions. *Plant and Soil*, **2008**, 307, 135-147	4.2	38
82	Arbuscular mycorrhizas contribute to phytostabilization of uranium in uranium mining tailings. *Journal of Environmental Radioactivity*, **2008**, 99, 801-10	2.4	32
81	Role and influence of mycorrhizal fungi on radiocesium accumulation by plants. *Journal of Environmental Radioactivity*, **2008**, 99, 785-800	2.4	36
80	Impact of arbuscular mycorrhizal fungi on uranium accumulation by plants. *Journal of Environmental Radioactivity*, **2008**, 99, 775-84	2.4	27
79	Letters from ICOM digging deeper into mycorrhizal research. *New Phytologist*, **2007**, 174, 233-235	9.8	
78	Fermentation of sugar beet waste by Aspergillus niger facilitates growth and P uptake of external mycelium of mixed populations of arbuscular mycorrhizal fungi. *Soil Biology and Biochemistry*, **2007**, 39, 485-492	7.5	25
77	Enzymatic evidence for the key role of arginine in nitrogen translocation by arbuscular mycorrhizal fungi. *Plant Physiology*, **2007**, 144, 782-92	6.6	110
76	Corrigendum to A novel analytical method for in vivo phosphate tracking [FEBS Lett. 580 (2006) 5885 5893]. *FEBS Letters*, **2007**, 581, 579-579	3.8	1
75	A novel analytical method for in vivo phosphate tracking. *FEBS Letters*, **2006**, 580, 5885-93	3.8	81
74	Fluorescent gel particles in the nanometer range for detection of metabolites in living cells. *Polymers for Advanced Technologies*, **2006**, 17, 790-793	3.2	14
73	Transport of radiocaesium by arbuscular mycorrhizal fungi to Medicago truncatula under in vitro conditions. *Environmental Microbiology*, **2006**, 8, 1926-34	5.2	55
72	Arbuscular mycorrhiza reduces susceptibility of tomato to Alternaria solani. *Mycorrhiza*, **2006**, 16, 413-419	3.9	134
71	Effects of the mycorrhizal fungus Glomus intraradices on uranium uptake and accumulation by Medicago truncatula L. from uranium-contaminated soil. *Plant and Soil*, **2005**, 275, 349-359	4.2	35
70	The influence of mycorrhiza on uranium and phosphorus uptake by barley plants from a field-contaminated soil. *Environmental Science and Pollution Research*, **2005**, 12, 325-31	5.1	30
69	Mycorrhiza and root hairs in barley enhance acquisition of phosphorus and uranium from phosphate rock but mycorrhiza decreases root to shoot uranium transfer. *New Phytologist*, **2005**, 165, 591-8	9.8	74
68	Temperature constraints on the growth and functioning of root organ cultures with arbuscular mycorrhizal fungi. *New Phytologist*, **2005**, 168, 179-88	9.8	92

67	Functional diversity in arbuscular mycorrhizas: exploitation of soil patches with different phosphate enrichment differs among fungal species. *Plant, Cell and Environment*, **2005**, 28, 642-650	8.4	107
66	The characterization of novel mycorrhiza-specific phosphate transporters from Lycopersicon esculentum and Solanum tuberosum uncovers functional redundancy in symbiotic phosphate transport in solanaceous species. *Plant Journal*, **2005**, 42, 236-50	6.9	246
65	Contrasting phosphate acquisition of mycorrhizal fungi with that of root hairs using the root hairless barley mutant. *Plant, Cell and Environment*, **2005**, 28, 928-938	8.4	76
64	Physiological and molecular evidence for Pi uptake via the symbiotic pathway in a reduced mycorrhizal colonization mutant in tomato associated with a compatible fungus. *New Phytologist*, **2005**, 168, 445-54	9.8	96
63	Mycorrhiza formation and nutrient concentration in leeks (Allium porrum) in relation to previous crop and cover crop management on high P soils. *Plant and Soil*, **2005**, 273, 101-114	4.2	34
62	No significant contribution of arbuscular mycorrhizal fungi to transfer of radiocesium from soil to plants. *Applied and Environmental Microbiology*, **2004**, 70, 6512-7	4.8	35
61	Nitrogen input mediates the effect of free-air CO2 enrichment on mycorrhizal fungal abundance. *Global Change Biology*, **2004**, 10, 1678-1688	11.4	23
60	The response of two Glomus mycorrhizal fungi and a fine endophyte to elevated atmospheric CO2, soil warming and drought. *Global Change Biology*, **2004**, 10, 1909-1921	11.4	70
59	Functional diversity in arbuscular mycorrhizal (AM) symbioses: the contribution of the mycorrhizal P uptake pathway is not correlated with mycorrhizal responses in growth or total P uptake. *New Phytologist*, **2004**, 162, 511-524	9.8	492
58	Hyphal fusion to plant species connections - giant mycelia and community nutrient flow. *New Phytologist*, **2004**, 164, 4-7	9.8	25
57	High functional diversity within species of arbuscular mycorrhizal fungi. *New Phytologist*, **2004**, 164, 357-364	9.8	438
56	Phosphate pool dynamics in the arbuscular mycorrhizal fungus Glomus intraradices studied by in vivo P NMR spectroscopy. *New Phytologist*, **2004**, 162, 783-794	9.8	57
55	Arbuscular mycorrhizal fungi can decrease the uptake of uranium by subterranean clover grown at high levels of uranium in soil. *Environmental Pollution*, **2004**, 130, 427-36	9.3	58
54	Mycorrhizal fungi can dominate phosphate supply to plants irrespective of growth responses. *Plant Physiology*, **2003**, 133, 16-20	6.6	632
53	Beyond the rhizosphere: growth and function of arbuscular mycorrhizal external hyphae in sands of varying pore sizes. *Plant and Soil*, **2003**, 251, 105-114	4.2	84
52	Combined effect of an arbuscular mycorrhizal fungus and a biocontrol bacterium againstPythium ultimum in soil. *Folia Geobotanica*, **2003**, 38, 145-154	1.4	21
51	The mycorrhizal fungus (Glomus intraradices) affects microbial activity in the rhizosphere of pea plants (Pisum sativum). *Soil Biology and Biochemistry*, **2003**, 35, 1349-1357	7.5	114
50	P uptake by arbuscular mycorrhizal hyphae: effect of soil temperature and atmospheric CO2 enrichment. *Global Change Biology*, **2003**, 9, 106-116	11.4	88

49	Mycorrhizal fungal abundance is affected by long-term climatic manipulations in the field. *Global Change Biology*, **2003**, 9, 186-194	11.4	119
48	Interaction between foliar-feeding insects, mycorrhizal fungi, and rhizosphere protozoa on pea plants. *Pedobiologia*, **2003**, 47, 281-287	1.7	50
47	Phosphorus uptake by arbuscular mycorrhizal hyphae does not increase when the host plant grows under atmospheric CO enrichment. *New Phytologist*, **2002**, 154, 751-760	9.8	34
46	Phospho-imaging as a tool for visualization and noninvasive measurement of P transport dynamics in arbuscular mycorrhizas. *New Phytologist*, **2002**, 154, 809-819	9.8	68
45	Functional diversity of arbuscular mycorrhizas extends to the expression of plant genes involved in P nutrition. *Journal of Experimental Botany*, **2002**, 53, 1593-601	7	150
44	Foraging and Resource Allocation Strategies of Mycorrhizal Fungi in a Patchy Environment. *Ecological Studies*, **2002**, 93-115	1.1	43
43	Response of free-living soil protozoa and microorganisms to elevated atmospheric CO2 and presence of mycorrhiza. *Soil Biology and Biochemistry*, **2002**, 34, 923-932	7.5	57
42	Phosphorus uptake of an arbuscular mycorrhizal fungus is not effected by the biocontrol bacterium Burkholderia cepacia. *Soil Biology and Biochemistry*, **2002**, 34, 1875-1881	7.5	22
41	Neither mycorrhizal inoculation nor atmospheric CO concentration has strong effects on pea root production and root loss. *New Phytologist*, **2001**, 149, 283-290	9.8	21
40	Interactive effects of soil temperature, atmospheric carbon dioxide and soil N on root development, biomass and nutrient uptake of winter wheat during vegetative growth. *Journal of Experimental Botany*, **2001**, 52, 1913-23	7	70
39	Fungicide application and phosphorus uptake by hyphae of arbuscular mycorrhizal fungi into field-grown peas. *Soil Biology and Biochemistry*, **2001**, 33, 1231-1237	7.5	31
38	Spatial differences in acquisition of soil phosphate between two arbuscular mycorrhizal fungi in symbiosis with Medicago truncatula. *New Phytologist*, **2000**, 147, 357-366	9.8	228
37	Phosphate transport by hyphae of field communities of arbuscular mycorrhizal fungi at two levels of P fertilization. *Plant and Soil*, **2000**, 221, 181-187	4.2	33
36	Arbuscular mycorrhizal phosphate transport under monoxenic conditions using radio-labelled inorganic and organic phosphate. *Biotechnology Letters*, **2000**, 22, 1705-1708	3	59
35	31P NMR for the study of P metabolism and translocation in arbuscular mycorrhizal fungi. *Plant and Soil*, **2000**, 226, 245-253	4.2	41
34	Laboratory and field methods for measurement of hyphal uptake of nutrients in soil. *Plant and Soil*, **2000**, 226, 237-244	4.2	31
33	Suppression of the biocontrol agent trichoderma harzianum by mycelium of the arbuscular mycorrhizal fungus glomus intraradices in root-free soil. *Applied and Environmental Microbiology*, **1999**, 65, 1428-34	4.8	120
32	Effects of various organic compounds on growth and phosphorus uptake of an arbuscular mycorrhizal fungus. *New Phytologist*, **1999**, 141, 517-524	9.8	102

31	Influence of an arbuscular mycorrhizal fungus on Pseudomonas fluorescens DF57 in rhizosphere and hyphosphere soil. *New Phytologist*, **1999**, 142, 113-122	9.8	60
30	Comparison of two test systems for measuring plant phosphorus uptake via arbuscular mycorrhizal fungi. *Mycorrhiza*, **1999**, 8, 207-213	3.9	22
29	Effects of Pseudomonas fluorescens DF57 on growth and P uptake of two arbuscular mycorrhizal fungi in symbiosis with cucumber. *Mycorrhiza*, **1999**, 8, 329-334	3.9	37
28	Comparison of techniques for the extraction and quantification of extra-radical mycelium of arbuscular mycorrhizal fungi in soils. *Soil Biology and Biochemistry*, **1999**, 31, 479-482	7.5	34
27	Estimation of the biomass of arbuscular mycorrhizal fungi in a linseed field. *Soil Biology and Biochemistry*, **1999**, 31, 1879-1887	7.5	224
26	Flax (Linum usitatissimum L.) depends on arbuscular mycorrhizal fungi for growth and P uptake at intermediate but not high soil P levels in the field. *Plant and Soil*, **1998**, 203, 37-46	4.2	72
25	The use of fatty acid signatures to study mycelial interactions between the arbuscular mycorrhizal fungus Glomus intraradices and the saprotrophic fungus Fusarium culmorum in root-free soil. *Mycological Research*, **1998**, 102, 1491-1496		63
24	Dose–response relationships between four pesticides and phosphorus uptake by hyphae of arbuscular mycorrhizas. *Soil Biology and Biochemistry*, **1998**, 30, 1415-1422	7.5	37
23	The effect of symbiotic microorganisms on phytoalexin contents of soybean roots. *Journal of Plant Physiology*, **1997**, 151, 716-723	3.6	13
22	Direct application of carbendazim and propiconazole at field rates to the external mycelium of three arbuscular mycorrhizal fungi species: effect on 32P transport and succinate dehydrogenase activity. *Mycorrhiza*, **1997**, 7, 33-37	3.9	39
21	Soil bacteria respond to presence of roots but not to mycelium of arbuscular mycorrhizal fungi. *Soil Biology and Biochemistry*, **1996**, 28, 463-470	7.5	94
20	Interactions between a mycophagous Collembola, dry yeast and the external mycelium of an arbuscular mycorrhizal fungus. *Mycorrhiza*, **1996**, 6, 259-264	3.9	40
19	Effects of a mycophagous Collembola on the symbioses between Trifolium subterraneum and three arbuscular mycorrhizal fungi. *New Phytologist*, **1996**, 133, 295-302	9.8	28
18	Uptake of 32P from labelled organic matter, by mycorrhizal and non-mycorrhizal subterranean clover (Trifolium subterraneum L.). *Plant and Soil*, **1995**, 172, 221-227	4.2	49
17	Role of Arbuscular Mycorrhizal Fungi in Uptake of Phosphorus and Nitrogen From Soil. *Critical Reviews in Biotechnology*, **1995**, 15, 257-270	9.4	222
16	Growth and extracellular phosphatase activity of arbuscular mycorrhizal hyphae as influenced by soil organic matter. *Soil Biology and Biochemistry*, **1995**, 27, 1153-1159	7.5	157
15	The use of phospholipid and neutral lipid fatty acids to estimate biomass of arbuscular mycorrhizal fungi in soil. *Mycological Research*, **1995**, 99, 623-629		378
14	Research approaches to study the functioning of vesicular-arbuscular mycorrhizas in the field. *Plant and Soil*, **1994**, 159, 141-147	4.2	38

13	Contribution by two arbuscular mycorrhizal fungi to P uptake by cucumber (Cucumis sativus L.) from32P-labelled organic matter during mineralization in soil. *Plant and Soil*, **1994**, 163, 203-209	4.2	58
12	Hyphal transport by a vesicular-arbuscular mycorrhizal fungus of N applied to the soil as ammonium or nitrate. *Biology and Fertility of Soils*, **1993**, 16, 66-70	6.1	86
11	Reduction of bacterial growth by a vesicular-arbuscular mycorrhizal fungus in the rhizosphere of cucumber (Cucumis sativus L.). *Biology and Fertility of Soils*, **1993**, 15, 253-258	6.1	71
10	6 Carbon Metabolism in Mycorrhiza. *Methods in Microbiology*, **1991**, 23, 149-180	2.8	10
9	Effects of age, supra-ambient oxygen and repeated assays on acetylene reduction and root respiration in pea. *Physiologia Plantarum*, **1988**, 74, 77-82	4.6	6
8	The effect of pretransplant inoculation with VA mycorrhizal fungi on the subsequent growth of leeks in the field. *Plant and Soil*, **1987**, 97, 279-283	4.2	19
7	Effects of VA mycorrhiza on yield and harvest index of field-grown pea. *Plant and Soil*, **1987**, 98, 407-415	4.2	22
6	Rhizobium strain effects on pea: The relation between nitrogen accumulation, phosphoenolpyruvate carboxylase activity in nodules and asparagine in root bleeding sap. *Physiologia Plantarum*, **1987**, 71, 281-286	4.6	28
5	The role of phosphorus in nitrogen fixation by young pea plants (Pisum sativum). *Physiologia Plantarum*, **1985**, 64, 190-196	4.6	126
4	Hyphal growth from spores of the mycorrhizal fungus Glomus caledonius: Effect of amino acids. *Soil Biology and Biochemistry*, **1983**, 15, 55-58	7.5	42
3	Influence of vesicular-arbuscular mycorrhiza and straw mulch on growth of barley. *Plant and Soil*, **1981**, 62, 157-161	4.2	7
2	The occrrence of vesicular-arbuscular mycorrhiza in barley and wheat grown in some Danish soils with different fertilizer treatments. *Plant and Soil*, **1980**, 55, 403-414	4.2	95
1	Phosphorus acquisition efficiency in arbuscular mycorrhizal maize is correlated with the abundance of root-external hyphae and the accumulation of transcripts encoding PHT1 phosphate transporters		2