Chantal Hamel

List of Publications by Year
in descending order

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165 papers	7,301 citations	41344 49 h-index	74163 75 g-index
167 all docs	167 docs citations	167 times ranked	5864 citing authors

#	Article	IF	Citations
1	Enhanced hyphal growth and spore production of the arbuscular mycorrhizal fungus Glomus intraradices in an in vitro system in the absence of host roots. Mycological Research, 1996, 100, 328-332.	2.5	409
2	Soil microbial dynamics in maize-growing soil under different tillage and residue management systems. Soil Biology and Biochemistry, 2004, 36, 499-512.	8.8	302
3	Acquisition of Cu, Zn, Mn and Fe by mycorrhizal maize (Zea mays L.) grown in soil at different P and micronutrient levels. Mycorrhiza, 2000, 9, 331-336.	2.8	298
4	Long-Term Phosphorus Fertilization Impacts Soil Fungal and Bacterial Diversity but not AM Fungal Community in Alfalfa. Microbial Ecology, 2010, 59, 379-389.	2.8	185
5	Diversifying crop rotations with pulses enhances system productivity. Scientific Reports, 2015, 5, 14625.	3.3	182
6	Title is missing!. Plant and Soil, 1997, 192, 285-293.	3.7	162
7	Strategies for reducing the carbon footprint of field crops for semiarid areas. A review. Agronomy for Sustainable Development, 2011, 31, 643-656.	5.3	147
8	Seasonal and long-term resource-related variations in soil microbial communities in wheat-based rotations of the Canadian prairie. Soil Biology and Biochemistry, 2006, 38, 2104-2116.	8.8	136
9	Spatial and temporal structuring of arbuscular mycorrhizal communities is differentially influenced by abiotic factors and host crop in a semi-arid prairie agroecosystem. FEMS Microbiology Ecology, 2014, 88, 333-344.	2.7	127
10	The arbuscular mycorrhizal symbiosis links N mineralization to plant demand. Mycorrhiza, 2009, 19, 239-246.	2.8	123
11	Soil microbial quality associated with yield reduction in continuous-pea. Applied Soil Ecology, 2009, 43, 115-121.	4.3	121
12	Do tree-based intercropping systems increase the diversity and stability of soil microbial communities?. Agriculture, Ecosystems and Environment, 2009, 131, 25-31.	5.3	103
13	Measurement of development of endomycorrhizal mycelium using three different vital stains. New Phytologist, 1990, 115, 297-302.	7.3	88
14	Longâ€term effects of nitrogen and phosphorus fertilization on soil microbial community structure and function under continuous wheat production. Environmental Microbiology, 2020, 22, 1066-1088.	3.8	87
15	Canola Rootâ€“Associated Microbiomes in the Canadian Prairies. Frontiers in Microbiology, 2018, 9, 1188.	3.5	85
16	Denitrification and nitrous oxide to nitrous oxide plus dinitrogen ratios in the soil profile under three tillage systems. Biology and Fertility of Soils, 2003, 38, 340-348.	4.3	82
17	Thirty-seven years of soil nitrogen and phosphorus fertility management shapes the structure and function of the soil microbial community in a Brown Chernozem. Plant and Soil, 2009, 315, 173-184.	3.7	80
18	Title is missing!. Plant and Soil, 2000, 221, 157-166.	3.7	78

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19	Genetic variability in arbuscular mycorrhizal fungi compatibility supports the selection of durum wheat genotypes for enhancing soil ecological services and cropping systems in Canada. Canadian Journal of Microbiology, 2012, 58, 293-302.	1.7	76
20	Increasing the frequency of pulses in crop rotations reduces soil fungal diversity and increases the proportion of fungal pathotrophs in a semiarid agroecosystem. Agriculture, Ecosystems and Environment, 2017, 240, 206-214.	5.3	76
21	Vertical distribution of arbuscular mycorrhizal fungi under corn (Zea mays L.) in no-till and conventional tillage systems. Mycorrhiza, 1998, 8, 53-55.	2.8	75
22	Dynamics of the mycorrhizal symbiosis of corn (Zea mays L.): effects of host physiology, tillage practice and fertilization on spatial distribution of extra-radical mycorrhizal hyphae in the field. Agriculture, Ecosystems and Environment, 1998, 68, 151-163.	5.3	73
23	A Sampling Method for Measurement of Large Root Systems with Scannerâ€Based Image Analysis. Agronomy Journal, 2000, 92, 621-627.	1.8	72
24	Impact of arbuscular mycorrhizal fungi on N and P cycling in the root zone. Canadian Journal of Soil Science, 2004, 84, 383-395.	1.2	69
25	Negative and positive contributions of arbuscular mycorrhizal fungal taxa to wheat production and nutrient uptake efficiency in organic and conventional systems in the Canadian prairie. Soil Biology and Biochemistry, 2014, 74, 156-166.	8.8	69
26	Endomycorrhizal fungi in nitrogen transfer from soybean to maize. Plant and Soil, 1991, 138, 33-40.	3.7	68
27	Soil Fungal Resources in Annual Cropping Systems and Their Potential for Management. BioMed Research International, 2014, 2014, 1-15.	1.9	68
28	Fungal diversity associated with pulses and its influence on the subsequent wheat crop in the Canadian prairies. Plant and Soil, 2017, 414, 13-31.	3.7	66
29	Altered growth of Fusarium oxysporum f.sp. chrysanthemi in an in vitro dual culture system with the vesicular arbuscular mycorrhizal fungus Glomus intraradices growing on Daucus carota transformed roots. Mycorrhiza, 1995, 5, 431-438.	2.8	66
30	Edaphic properties override the influence of crops on the composition of the soil bacterial community in a semiarid agroecosystem. Applied Soil Ecology, 2016, 105, 160-168.	4.3	64
31	Long-Term Land Use Affects Phosphorus Speciation and the Composition of Phosphorus Cycling Genes in Agricultural Soils. Frontiers in Microbiology, 2018, 9, 1643.	3.5	64
32	Fungal communities associated with durum wheat production system: A characterization by growth stage, plant organ and preceding crop. Crop Protection, 2012, 37, 26-34.	2.1	63
33	Arbuscular mycorrhiza colonization and development at suboptimal root zone temperature. Mycorrhiza, 2004, 14, 93-101.	2.8	62
34	Two distinct gene clusters encode pyrene degradation in Mycobacterium sp. strain S65. FEMS Microbiology Ecology, 2004, 48, 209-220.	2.7	62
35	Response of strawberry to inoculation with arbuscular mycorrhizal fungi under very high soil phosphorus conditions. Mycorrhiza, 2005, 15, 612-619.	2.8	60
36	Negative feedback on a perennial crop: Fusarium crown and root rot of asparagus is related to changes in soil microbial community structure. Plant and Soil, 2005, 268, 75-87.	3.7	60

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37	Effect of long-term tillage and mineral phosphorus fertilization on arbuscular mycorrhizal fungi in a humid continental zone of Eastern Canada. Plant and Soil, 2013, 369, 599-613.	3.7	60
38	Inhibition ofPythium ultimumin roots and growth substrate of mycorrhizalTagetes patulacolonized withGlomus intraradices. Canadian Journal of Plant Pathology, 1994, 16, 187-194.	1.4	59
39	Soilâ€"strain compatibility: the key to effective use of arbuscular mycorrhizal inoculants?. Mycorrhiza, 2011, 21, 183-193.	2.8	58
40	Chickpea genotypes shape the soil microbiome and affect the establishment of the subsequent durum wheat crop in the semiarid North American Great Plains. Soil Biology and Biochemistry, 2013, 63, 129-141.	8.8	58
41	Seasonal variation of microbial biomass, activity, and community structure in soil under different tillage and phosphorus management practices. Biology and Fertility of Soils, 2013, 49, 803-818.	4.3	58
42	Prospects and problems pertaining to the management of arbuscular mycorrhizae in agriculture. Agriculture, Ecosystems and Environment, 1996, 60, 197-210.	5.3	57
43	Plant development in a mycorrhizal field-grown mixture. Soil Biology and Biochemistry, 1991, 23, 661-665.	8.8	56
44	Biodiversity and Biogeography of Fusarium Species from Northeastern North American Asparagus Fields Based on Microbiological and Molecular Approaches. Microbial Ecology, 2006, 51, 242-255.	2.8	56
45	Phytochemicals to suppress Fusarium head blight in wheatâ€"chickpea rotation. Phytochemistry, 2012, 78, 72-80.	2.9	54
46	Endomycorrhizal fungal species mediate 15N transfer from soybean to maize in non-fumigated soil. Plant and Soil, 1991, 138, 41-47.	3.7	53
47	Indigenous populations of arbuscular mycorrhizal fungi and soil aggregate stability are major determinants of leek (Allium porrum L.) response to inoculation with Glomus intraradices Schenck & Smith or Glomus versiforme (Karsten) Berch. Mycorrhiza, 1997, 7, 187-196.	2.8	53
48	Intensifying crop rotations with pulse crops enhances system productivity and soil organic carbon in semi-arid environments. Field Crops Research, 2020, 248, 107657.	5.1	53
49	Inhibition of Fusarium oxysporum f-sp. dianthi in the non-VAM species Dianthus caryophyllus by co-culture with Tagetes patula companion plants colonized by Glomus intraradices. Canadian Journal of Botany, 1997, 75, 998-1005.	1.1	52
50	Composition of the vesicular-arbuscular mycorrhizal fungi population in an old meadow as affected by pH, phosphorus and soil disturbance. Agriculture, Ecosystems and Environment, 1994, 49, 223-231.	5.3	51
51	Combined effects of soil disturbance and fallowing on plant and fungal components of mycorrhizal corn (Zea mays L.). Soil Biology and Biochemistry, 1999, 31, 307-314.	8.8	51
52	Concentrations of K, Ca and Mg in maize colonized by arbuscular mycorrhizal fungi under field conditions. Canadian Journal of Soil Science, 2002, 82, 272-278.	1.2	50
53	Diversity and Functionality of Arbuscular Mycorrhizal Fungi in Three Plant Communities in Semiarid Grasslands National Park, Canada. Microbial Ecology, 2010, 59, 724-733.	2.8	50
54	Evaluation of the â€œbait-lamina testâ€•to assess soil microfauna feeding activity in mixed grassland. Applied Soil Ecology, 2007, 36, 199-204.	4.3	49

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55	Impact of Land Use on Arbuscular Mycorrhizal Fungal Communities in Rural Canada. Applied and Environmental Microbiology, 2013, 79, 6719-6729.	3.1	49
56	Taxonomy and pathogenicity of Olpidium brassicae and its allied species. Fungal Biology, 2018, 122, 837-846.	2.5	49
57	First report ofFusarium redolensfrom Saskatchewan and its comparative pathogenicity. Canadian Journal of Plant Pathology, 2011, 33, 559-564.	1.4	48
58	Pyrosequencing reveals how pulses influence rhizobacterial communities with feedback on wheat growth in the semiarid Prairie. Plant and Soil, 2013, 367, 493-505.	3.7	46
59	Arbuscular mycorrhizal fungal communities are influenced by agricultural land use and not soil type among the Chernozem great groups of the Canadian Prairies. Plant and Soil, 2015, 387, 351-362.	3.7	46
60	Root Morphology of Contrasting Maize Genotypes. Agronomy Journal, 2002, 94, 96-101.	1.8	45
61	N2-fixation and transfer in a field grown mycorrhizal corn and soybean intercrop. Plant and Soil, 1991, 133, 177-185.	3.7	43
62	High frequency cropping of pulses modifies soil nitrogen level and the rhizosphere bacterial microbiome in 4-year rotation systems of the semiarid prairie. Applied Soil Ecology, 2018, 126, 47-56.	4.3	43
63	Overwinter survival of arbuscular mycorrhizal hyphae is favored by attachment to roots but diminished by disturbance. Mycorrhiza, 1997, 7, 197-200.	2.8	42
64	Environmental and Agronomic Implications of Water Table and Nitrogen Fertilization Management. Journal of Environmental Quality, 2002, 31, 1858-1867.	2.0	42
65	Phosphorus-32 absorption and translocation to host plants by arbuscular mycorrhizal fungi at low root-zone temperature. Mycorrhiza, 2002, 12, 93-96.	2.8	41
66	Nitrogen mineralization and microbial biomass carbon and nitrogen in response to co-application of biochar and paper mill biosolids. Applied Soil Ecology, 2019, 142, 90-98.	4.3	41
67	Mycorrhizal Effects on Interspecific Plant Competition and Nitrogen Transfer in Legumeâ€Grass Mixtures. Crop Science, 1992, 32, 991-996.	1.8	40
68	Genotype-Specific Variation in the Structure of Root Fungal Communities Is Related to Chickpea Plant Productivity. Applied and Environmental Microbiology, 2015, 81, 2368-2377.	3.1	39
69	Changes in arbuscular mycorrhizal fungal attributes along a chronosequence of black locust (Robinia pseudoacacia) plantations can be attributed to the plantation-induced variation in soil properties. Science of the Total Environment, 2017, 599-600, 273-283.	8.0	39
70	Differential and systemic alteration of defence-related gene transcript levels in mycorrhizal bean plants infected with Rhizoctonia solani. Canadian Journal of Botany, 2002, 80, 305-315.	1.1	38
71	Phytochemicals and spore germination: At the root of AMF host preference?. Applied Soil Ecology, 2012, 60, 98-104.	4.3	38
72	Root-zone temperature and soybean [Glycine max. (L.) merr.] vesicular-arbuscular mycorrhizae: Development and interactions with the nitrogen fixing symbiosis. Environmental and Experimental Botany, 1995, 35, 287-298.	4.2	37

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73	Various forms of organic and inorganic P fertilizers did not negatively affect soil- and root-inhabiting AM fungi in a maizeâ€“soybean rotation system. Mycorrhiza, 2013, 23, 143-154.	2.8	36
74	Arbuscular mycorrhizal fungi in field crop production: Potential and new direction. Canadian Journal of Plant Science, 2006, 86, 941-950.	0.9	35
75	Relationships between Fusarium population structure, soil nutrient status and disease incidence in field-grown asparagus. FEMS Microbiology Ecology, 2006, 58, 394-403.	2.7	35
76	Water and Fertilizer Nitrogen Management to Minimize Nitrate Pollution from a Cropped Soil in Southwestern Quebec, Canada. Water, Air, and Soil Pollution, 2004, 151, 117-134.	2.4	34
77	Nitrate leaching in the semiarid prairie : Effect of cropping frequency, crop type, and fertilizer after 37 years. Canadian Journal of Soil Science, 2006, 86, 701-710.	1.2	34
78	Growth of Corn Roots and Associated Arbuscular Mycorrhizae Are Affected by Longâ€Term Tillage and Phosphorus Fertilization. Agronomy Journal, 2012, 104, 1672-1678.	1.8	33
79	Water use profiles across the rooting zones of various pulse crops. Field Crops Research, 2012, 134, 130-137.	5.1	33
80	Fungal Communities of the Canola Rhizosphere: Keystone Species and Substantial Between-Year Variation of the Rhizosphere Microbiome. Microbial Ecology, 2020, 80, 762-777.	2.8	33
81	Site specificity in establishment of a commercial arbuscular mycorrhizal fungal inoculant. Science of the Total Environment, 2019, 660, 1135-1143.	8.0	32
82	Intensified Pulse Rotations Buildup Pea Rhizosphere Pathogens in Cereal and Pulse Based Cropping Systems. Frontiers in Microbiology, 2018, 9, 1909.	3.5	31
83	Root contrast enhancement for measurement with optical scanner-based image analysis. Canadian Journal of Botany, 2001, 79, 23-29.	1.1	31
84	Potential to breed for mycorrhizal association in durum wheat. Canadian Journal of Microbiology, 2016, 62, 263-271.	1.7	30
85	Arbuscular mycorrhizal fungi assemblages in Chernozem great groups revealed by massively parallel pyrosequencing. Canadian Journal of Microbiology, 2012, 58, 81-92.	1.7	28
86	Cropping practices modulate the impact of glyphosate on arbuscular mycorrhizal fungi and rhizosphere bacteria in agroecosystems of the semiarid prairie. Canadian Journal of Microbiology, 2012, 58, 990-1001.	1.7	28
87	Mycorrhizae-mediated 15N transfer from soybean to corn in field-grown intercrops: Effect of component crop spatial relationships. Soil Biology and Biochemistry, 1992, 24, 499-501.	8.8	27
88	Effect of three vesiculaâ€arbuscular mycorrhizae species and phosphorus on reproductive and vegetative growth of three strawberry cultivars¹. Journal of Plant Nutrition, 1995, 18, 1073-1079.	1.9	27
89	The proliferation of fungal hyphae in soils supporting mycorrhizal and non-mycorrhizal plants. Mycorrhiza, 1997, 6, 477-480.	2.8	26
90	Development of a selective myclobutanil agar (MBA) medium for the isolation of Fusarium species from asparagus fields. Canadian Journal of Microbiology, 2002, 48, 841-847.	1.7	26

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91	Soil microbial biomass, activity and community structure as affected by mineral phosphorus fertilization in grasslands. Applied Soil Ecology, 2020, 146, 103391.	4.3	26
92	Influence of water table and nitrogen management on residual soil NO3â˜ and denitrification rate under corn production in sandy loam soil in Quebec. Agriculture, Ecosystems and Environment, 2000, 79, 187-197.	5.3	25
93	Factors Associated with Fusarium Crown and Root Rot of Asparagus Outbreaks in Quebec. Phytopathology, 2005, 95, 867-873.	2.2	25
94	Soil microbial carbon and phosphorus as influenced by phosphorus fertilization and tillage in a maize-soybean rotation in south-western Quebec. Canadian Journal of Soil Science, 2008, 88, 21-30.	1.2	25
95	Cropping practices impact fungal endophytes and pathogens in durum wheat roots. Applied Soil Ecology, 2016, 100, 104-111.	4.3	25
96	The use of thermal time to model common lambsquarters (Chenopodium album) seedling emergence in corn. Weed Science, 2003, 51, 718-724.	1.5	24
97	Tag-encoded pyrosequencing analysis of the effects of fungicide application and plant genotype on rhizobacterial communities. Applied Soil Ecology, 2012, 60, 92-97.	4.3	24
98	Discussion paper: Sustainable increase of crop production through improved technical strategies, breeding and adapted management â€“ A European perspective. Science of the Total Environment, 2019, 678, 146-161.	8.0	24
99	Lentil enhances the productivity and stability of oilseed-cereal cropping systems across different environments. European Journal of Agronomy, 2019, 105, 24-31.	4.1	24
100	Plant communities and soil properties mediate agricultural land use impacts on arbuscular mycorrhizal fungi in the Mixed Prairie ecoregion of the North American Great Plains. Agriculture, Ecosystems and Environment, 2017, 249, 187-195.	5.3	23
101	First Report of Damping-Off of Durum Wheat Caused by Arthrinium sacchari in the Semi-Arid Saskatchewan Fields. Plant Disease, 2007, 91, 469-469.	1.4	23
102	Bacterial endophytes mediate positive feedback effects of early legume termination times on the yield of subsequent durum wheat crops. Canadian Journal of Microbiology, 2012, 58, 1368-1377.	1.7	22
103	Interaction between legume and arbuscular mycorrhizal fungi identity alters the competitive ability of warm-season grass species in a grassland community. Soil Biology and Biochemistry, 2014, 70, 176-182.	8.8	22
104	Abundance of the arbuscular mycorrhizal fungal taxa associated with the roots and rhizosphere soil of different durum wheat cultivars in the Canadian prairies. Canadian Journal of Microbiology, 2018, 64, 527-536.	1.7	22
105	Diversifying crop rotations enhances agroecosystem services and resilience. Advances in Agronomy, 2022, , 299-335.	5.2	21
106	Pyrosequencing reveals the impact of foliar fungicide application to chickpea on root fungal communities of durum wheat in subsequent year. Fungal Ecology, 2015, 15, 73-81.	1.6	20
107	Genotypic variation in the response of chickpea to arbuscular mycorrhizal fungi and non-mycorrhizal fungal endophytes. Canadian Journal of Microbiology, 2018, 64, 265-275.	1.7	20
108	Similar Arbuscular Mycorrhizal Fungal Communities in 31 Durum Wheat Cultivars (Triticum turgidum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.6	20

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109	Arbuscular mycorrhizal fungi and nematodes are involved in negative feedback on a dual culture of alfalfa and Russian wildrye. Applied Soil Ecology, 2008, 40, 30-36.	4.3	19
110	Plant assemblage composition and soil P concentration differentially affect communities of AM and total fungi in a semi-arid grassland. FEMS Microbiology Ecology, 2015, 91, 1-13.	2.7	19
111	Effect of crop rotations on NO₃ leached over 17 years in a medium-textured Brown Chernozem. Canadian Journal of Soil Science, 2006, 86, 109-118.	1.2	18
112	Incongruous variation of denitrifying bacterial communities as soil N level rises in Canadian canola fields. Applied Soil Ecology, 2015, 89, 93-101.	4.3	18
113	Phytochemicals induced in chickpea roots selectively and non-selectively stimulate and suppress fungal endophytes and pathogens. Plant and Soil, 2016, 409, 479-493.	3.7	18
114	Soil microbial biomass, activity, and community composition as affected by dairy manure slurry applications in grassland production. Applied Soil Ecology, 2018, 125, 97-107.	4.3	18
115	Apple Rootstock Response to Vesicular-arbuscular Mycorrhizal Fungi in a High Phosphorus Soil. Journal of the American Society for Horticultural Science, 1994, 119, 578-583.	1.0	18
116	Reduction of the available phosphorus pool in field soils growing maize genotypes with extensive mycorrhizal development. Canadian Journal of Plant Science, 2003, 83, 737-744.	0.9	17
117	Calibration and validation of a common lambsquarters (Chenopodium album) seedling emergence model. Weed Science, 2004, 52, 61-66.	1.5	17
118	Comparison of solvent mixtures for pressurized solvent extraction of soil fatty acid biomarkers. Talanta, 2008, 77, 195-199.	5.5	17
119	Why does oriental arborvitae grow better when mixed with black locust: Insight on nutrient cycling?. Ecology and Evolution, 2018, 8, 744-754.	1.9	17
120	Bacterial Communities of the Canola Rhizosphere: Network Analysis Reveals a Core Bacterium Shaping Microbial Interactions. Frontiers in Microbiology, 2020, 11, 1587.	3.5	16
121	Underseeded clover as a nitrogen source for spring wheat on a Gleysol. Canadian Journal of Soil Science, 2001, 81, 93-102.	1.2	15
122	Lentil enhances agroecosystem productivity with increased residual soil water and nitrogen. Renewable Agriculture and Food Systems, 2017, 32, 319-330.	1.8	15
123	Facteurs impliquÃ©s dans la levÃ©e des mauvaises herbes au champ. Phytoprotection, 1998, 79, 111-127.	0.3	14
124	A microplate assay to measure soil microbial biomass phosphorus. Biology and Fertility of Soils, 2004, 40, 201.	4.3	14
125	Economics of spring wheat production systems using conventional tillage management in the Brown soil zone â€“ Revisited. Canadian Journal of Plant Science, 2007, 87, 27-40.	0.9	14
126	Soil residual water and nutrients explain about 30% of the rotational effect in 4-year pulse-intensified rotation systems. Canadian Journal of Plant Science, 2017, , .	0.9	14

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127	Nontarget effects of foliar fungicide application on the rhizosphere: diversity ofnifHgene and nodulation in chickpea field. Journal of Applied Microbiology, 2012, 112, 966-974.	3.1	13
128	Mycorrhizal response in crop versus wild plants. PLoS ONE, 2019, 14, e0221037.	2.5	13
129	Influence of introduced arbuscular mycorrhizal fungi and phosphorus sources on plant traits, soil properties, and rhizosphere microbial communities in organic legume-flax rotation. Plant and Soil, 2019, 443, 87-106.	3.7	13
130	Morphology and fractal dimension of root systems of maize hybrids bearing the leafy trait. Canadian Journal of Botany, 2003, 81, 706-713.	1.1	12
131	Mycorrhizal Colonization Increases Herbicide Toxicity in Apple. Journal of the American Society for Horticultural Science, 1994, 119, 1255-1260.	1.0	12
132	Effects of plant neighborhood on arbuscular mycorrhizal fungal attributes in afforested zones. Forest Ecology and Management, 2018, 422, 253-262.	3.2	11
133	Axenic growth of the arbuscular mycorrhizal fungus Rhizophagus irregularis and growth stimulation by coculture with plant growth-promoting rhizobacteria. Mycorrhiza, 2019, 29, 591-598.	2.8	11
134	Expression of Nâ€cycling genes of root microbiomes provides insights for sustaining oilseed crop production. Environmental Microbiology, 2020, 22, 4545-4556.	3.8	11
135	Effect of the Presence or Absence of Corn on Common Lambsquarters (Chenopodium album L.) and Barnyardgrass [Echinochloa crus-galli (L.) Beauv.] Emergence1. Weed Technology, 2002, 16, 638-644.	0.9	10
136	Effects of arbuscular mycorrhizal fungi inoculation and crop sequence on root-associated microbiome, crop productivity and nutrient uptake in wheat-based and flax-based cropping systems. Applied Soil Ecology, 2021, 168, 104136.	4.3	10
137	Long-Term Persistence of Arbuscular Mycorrhizal Fungi in the Rhizosphere and Bulk Soils of Non-host Brassica napus and Their Networks of Co-occurring Microbes. Frontiers in Plant Science, 2022, 13, 828145.	3.6	10
138	Detection of chitin synthase class I and II type sequences in six different arbuscular mycorrhizal fungi and gene expression in Glomus intraradices. Mycological Research, 2001, 105, 470-476.	2.5	9
139	Soil phosphorus depletion capacity of arbuscular mycorrhizae formed by maize hybrids. Canadian Journal of Soil Science, 2003, 83, 337-342.	1.2	9
140	Effect of green manure crops, termination method, stubble crops, and fallow on soil water, available N, and exchangeable P. Canadian Journal of Plant Science, 2016, 96, 867-886.	0.9	9
141	Soil fertility and arbuscular mycorrhizal fungi related to trees growing on smallholder farms in Senegal. Journal of Arid Environments, 2008, 72, 1247-1256.	2.4	8
142	Pyrolysis-mass spectrometry and gas chromatography-flame ionization detection as complementary tools for soil lipid characterization. Journal of Analytical and Applied Pyrolysis, 2011, 90, 232-237.	5.5	8
143	Winter effect on soil microorganisms under different tillage and phosphorus management practices in eastern Canada. Canadian Journal of Microbiology, 2015, 61, 315-326.	1.7	8
144	The H2-oxidizing Rhizobacteria Associated with Field-Grown Lentil Promote the Growth of Lentil Inoculated with Hup+ Rhizobium Through Multiple Modes of Action. Journal of Plant Growth Regulation, 2017, 36, 348-361.	5.1	8

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145	Soil microbial community dynamics after co-application of biochar and paper mill biosolids. Applied Soil Ecology, 2021, 165, 103960.	4.3	8
146	Crop and weed response to nutrient source, tillage and weed control method in a corn-soybean rotation. Canadian Journal of Plant Science, 2001, 81, 561-571.	0.9	7
147	Influence of arbuscular mycorrhizae on soil P dynamics, corn P-nutrition and growth in a ridge-tilled commercial field. Canadian Journal of Soil Science, 2008, 88, 283-294.	1.2	7
148	Nodulation and nitrogen accumulation in pulses vary with species, cultivars, growth stages, and environments. Canadian Journal of Plant Science, 2018, 98, 527-542.	0.9	7
149	Effect of water on common lambsquarters (Chenopodium album L.) and barnyardgrass [Echinochloa crus-galli (L.) Beauv.] seedling emergence in corn. Canadian Journal of Plant Science, 2002, 82, 855-859.	0.9	6
150	Effects of Key Soil Organisms on Nutrient Dynamics in Temperate Agroecosystems. Journal of Crop Improvement, 2004, 11, 175-207.	1.7	6
151	Contribution of Medicago sativa to the productivity and nutritive value of forage in semiâ€arid grassland pastures. Grass and Forage Science, 2018, 73, 159-173.	2.9	6
152	Biogeography of arbuscular mycorrhizal fungal communities in saline ecosystems of northern China. Applied Soil Ecology, 2019, 143, 213-221.	4.3	6
153	Inter-Kingdom Networks of Canola Microbiome Reveal Bradyrhizobium as Keystone Species and Underline the Importance of Bulk Soil in Microbial Studies to Enhance Canola Production. Microbial Ecology, 2022, 84, 1166-1181.	2.8	6
154	Root endophytes modify the negative effects of chickpea on the emergence of durum wheat. Applied Soil Ecology, 2015, 96, 201-210.	4.3	5
155	Phosphorus Fertilization Effect on Timothy Root Growth, and Associated Arbuscular Mycorrhizal Development. Agronomy Journal, 2016, 108, 930-938.	1.8	5
156	Implications of Past, Current, and Future Agricultural Practices for Mycorrhiza-Mediated Nutrient Flux. , 2017, , 175-186.		5
157	Suitability of Glomus intraradices in vitro produced spores and root segment inoculum for the establishment of a mycorrhizosphere in an experimental microcosm. Canadian Journal of Botany, 2001, 79, 879-885.	1.1	4
158	Diversity of Native Endomycorrhizal Fungi in Selected Strawberry Field Soils of Southern Quebec. International Journal of Fruit Science, 2003, 2, 61-71.	0.2	3
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