

Miroslav Vosňatka

List of Publications by Year in descending order

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93

papers

3,300

citations

126907

33

h-index

189892

50

g-index

96

all docs

96

docs citations

96

times ranked

3036

citing authors

#	ARTICLE	IF	CITATIONS
1	Seed Coating: A Tool for Delivering Beneficial Microbes to Agricultural Crops. <i>Frontiers in Plant Science</i> , 2019, 10, 1357.	3.6	189
2	Phosphatase activity of extra-radical arbuscular mycorrhizal hyphae: A review. <i>Plant and Soil</i> , 2000, 226, 199-210.	3.7	146
3	Comparison of commonly used primer sets for evaluating arbuscular mycorrhizal fungal communities: Is there a universal solution?. <i>Soil Biology and Biochemistry</i> , 2014, 68, 482-493.	8.8	141
4	Inoculum of arbuscular mycorrhizal fungi for production systems: science meets business. <i>Canadian Journal of Botany</i> , 2004, 82, 1264-1271.	1.1	126
5	Arbuscular Mycorrhiza Stimulates Biological Nitrogen Fixation in Two <i>Medicago</i> spp. through Improved Phosphorus Acquisition. <i>Frontiers in Plant Science</i> , 2017, 8, 390.	3.6	100
6	Effects of inoculation with <i>Glomus intraradices</i> on lead uptake by <i>Zea mays</i> L. and <i>Agrostis capillaris</i> L.. <i>Applied Soil Ecology</i> , 2003, 23, 55-67.	4.3	97
7	Development of arbuscular mycorrhizal biotechnology and industry: current achievements and bottlenecks. <i>Symbiosis</i> , 2012, 58, 29-37.	2.3	86
8	Effectiveness of indigenous and non-indigenous isolates of arbuscular mycorrhizal fungi in soils from degraded ecosystems and man-made habitats. <i>Applied Soil Ecology</i> , 2000, 14, 201-211.	4.3	73
9	Arbuscular mycorrhiza decreases cadmium phytoextraction by transgenic tobacco with inserted metallothionein. <i>Plant and Soil</i> , 2005, 272, 29-40.	3.7	64
10	Differences in the effects of three arbuscular mycorrhizal fungal strains on P and Pb accumulation by maize plants. <i>Plant and Soil</i> , 2007, 296, 77-83.	3.7	62
11	Treatment with culture fractions from <i>Pseudomonas putida</i> modifies the development of <i>Glomus fistulosum</i> mycorrhiza and the response of potato and maize plants to inoculation. <i>Applied Soil Ecology</i> , 1999, 11, 245-251.	4.3	61
12	Associations of dominant plant species with arbuscular mycorrhizal fungi during vegetation development on coal mine spoil banks. <i>Folia Geobotanica</i> , 2001, 36, 85-97.	0.9	50
13	Mycorrhizal association of <i>Agrostis capillaris</i> and <i>Glomus intraradices</i> under heavy metal stress: Combination of plant clones and fungal isolates from contaminated and uncontaminated substrates. <i>Applied Soil Ecology</i> , 2008, 40, 19-29.	4.3	50
14	Effects of Inoculum Additions in the Presence of a Preestablished Arbuscular Mycorrhizal Fungal Community. <i>Applied and Environmental Microbiology</i> , 2013, 79, 6507-6515.	3.1	49
15	Long-term tracing of <i>Rhizophagus irregularis</i> isolate BEG140 inoculated on <i>Phalaris arundinacea</i> in a coal mine spoil bank, using mitochondrial large subunit rDNA markers. <i>Mycorrhiza</i> , 2012, 22, 69-80.	2.8	48
16	Cultivation of high-biomass crops on coal mine spoil banks: Can microbial inoculation compensate for high doses of organic matter?. <i>Bioresource Technology</i> , 2008, 99, 6391-6399.	9.6	47
17	Editorial: Beneficial Microbes Alleviate Climatic Stresses in Plants. <i>Frontiers in Plant Science</i> , 2019, 10, 595.	3.6	44
18	Seed coating with arbuscular mycorrhizal fungi as an ecotechnological approach for sustainable agricultural production of common wheat (<i>Triticum aestivum</i> L.). <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2016, 79, 329-337.	2.3	43

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19	Increased protein content of chickpea (<i>Cicer arietinum</i> L.) inoculated with arbuscular mycorrhizal fungi and nitrogen-fixing bacteria under water deficit conditions. <i>Journal of the Science of Food and Agriculture</i> , 2017, 97, 4379-4385.	3.5	43
20	Nano Zero-Valent Iron Mediated Metal(loid) Uptake and Translocation by Arbuscular Mycorrhizal Symbioses. <i>Environmental Science & Technology</i> , 2018, 52, 7640-7651.	10.0	43
21	The Role of Arbuscular Mycorrhiza Fungi in the Decomposition of Fresh Residue and Soil Organic Carbon: A Mini-Review. <i>Soil Science Society of America Journal</i> , 2019, 83, 511-517.	2.2	42
22	Different native arbuscular mycorrhizal fungi influence the coexistence of two plant species in a highly alkaline anthropogenic sediment. <i>Plant and Soil</i> , 2006, 287, 209-221.	3.7	41
23	Effects of arbuscular mycorrhizal inoculation on cadmium accumulation by different tobacco (<i>Nicotiana tabacum</i> L.) types. <i>Applied Soil Ecology</i> , 2007, 35, 502-510.	4.3	41
24	Mycorrhiza influences plant community structure in succession on spoil banks. <i>Basic and Applied Ecology</i> , 2007, 8, 510-520.	2.7	40
25	Effects of Endo- and Ectomycorrhizal Fungi on Physiological Parameters and Heavy Metals Accumulation of Two Species from the Family Salicaceae. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 399-410.	2.4	40
26	Seed coating with inocula of arbuscular mycorrhizal fungi and plant growth promoting rhizobacteria for nutritional enhancement of maize under different fertilisation regimes. <i>Archives of Agronomy and Soil Science</i> , 2019, 65, 31-43.	2.6	40
27	Antioxidant response in arbuscular mycorrhizal fungi inoculated wetland plant under Cr stress. <i>Environmental Research</i> , 2020, 191, 110203.	7.5	39
28	Inoculation of <i>Rhododendron</i> cv. Belle-Heller with two strains of <i>Phialocephala fortinii</i> in two different substrates. <i>Folia Geobotanica</i> , 2003, 38, 191-200.	0.9	38
29	Dual Inoculation with Mycorrhizal and Saprotrophic Fungi Applicable in Sustainable Cultivation Improves the Yield and Nutritive Value of Onion. <i>Scientific World Journal</i> , The, 2012, 2012, 1-8.	2.1	38
30	Response of micropropagated potatoes transplanted to peat media to post-vitro inoculation with arbuscular mycorrhizal fungi and soil bacteria. <i>Applied Soil Ecology</i> , 2000, 15, 145-152.	4.3	37
31	Chitin stimulates development and sporulation of arbuscular mycorrhizal fungi. <i>Applied Soil Ecology</i> , 2003, 22, 283-287.	4.3	37
32	Real-time PCR quantification of arbuscular mycorrhizal fungi: does the use of nuclear or mitochondrial markers make a difference?. <i>Mycorrhiza</i> , 2017, 27, 577-585.	2.8	36
33	Development and activity of <i>Glomus intraradices</i> as affected by co-existence with <i>Glomus claroideum</i> in one root system. <i>Mycorrhiza</i> , 2009, 19, 393-402.	2.8	35
34	The response of <i>Glomus fistulosum</i> -maize mycorrhiza to treatments with culture fractions from <i>Pseudomonas putida</i> . <i>Mycorrhiza</i> , 1996, 6, 207-211.	2.8	34
35	Extraradical mycelium of arbuscular mycorrhizal fungi radiating from large plants depresses the growth of nearby seedlings in a nutrient deficient substrate. <i>Mycorrhiza</i> , 2011, 21, 641-650.	2.8	34
36	The role of the extraradical mycelium network of arbuscular mycorrhizal fungi on the establishment and growth of <i>Calamagrostis epigejos</i> in industrial waste substrates. <i>Applied Soil Ecology</i> , 2001, 18, 129-142.	4.3	33

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37	Effect of <i>Glomus intraradices</i> isolated from Pb-contaminated soil on Pb uptake by <i>Agrostis capillaris</i> is changed by its cultivation in a metal-free substrate. <i>Folia Geobotanica</i> , 2003, 38, 155-165.	0.9	33
38	Native Grass Facilitates Mycorrhizal Colonisation and P Uptake of Tree Seedlings in Two Anthropogenic Substrates. <i>Water, Air, and Soil Pollution</i> , 2005, 166, 217-236.	2.4	32
39	Differences in AM fungal root colonization between populations of perennial <i>Aster</i> species have genetic reasons. <i>Oecologia</i> , 2008, 157, 211-220.	2.0	31
40	Arbuscular mycorrhiza differentially affects synthesis of essential oils in coriander and dill. <i>Mycorrhiza</i> , 2016, 26, 123-131.	2.8	31
41	Delivery of Inoculum of <i>Rhizophagus irregularis</i> via Seed Coating in Combination with <i>Pseudomonas libanensis</i> for Cowpea Production. <i>Agronomy</i> , 2019, 9, 33.	3.0	31
42	Inoculation effects on root-colonizing arbuscular mycorrhizal fungal communities spread beyond directly inoculated plants. <i>PLoS ONE</i> , 2017, 12, e0181525.	2.5	31
43	Saprotrophic fungi transform organic phosphorus from spruce needle litter. <i>Soil Biology and Biochemistry</i> , 2006, 38, 3372-3379.	8.8	29
44	Improved grain yield of cowpea (<i>Vigna unguiculata</i>) under water deficit after inoculation with <i>Bradyrhizobium elkanii</i> and <i>Rhizophagus irregularis</i> . <i>Crop and Pasture Science</i> , 2017, 68, 1052.	1.5	28
45	In vitro and post vitro inoculation of micropropagated <i>Rhododendrons</i> with ericoid mycorrhizal fungi. <i>Applied Soil Ecology</i> , 2000, 15, 125-136.	4.3	27
46	Response to cadmium of <i>Daucus carota</i> hairy roots dual cultures with <i>Glomus intraradices</i> or <i>Gigaspora margarita</i> . <i>Mycorrhiza</i> , 2005, 15, 217-224.	2.8	27
47	Influence of arbuscular mycorrhiza on the growth and cadmium uptake of tobacco with inserted metallothionein gene. <i>Applied Soil Ecology</i> , 2005, 29, 209-214.	4.3	27
48	The International Market Development for Mycorrhizal Technology. , 2008, , 419-438.		27
49	Intraradical Dynamics of Two Coexisting Isolates of the Arbuscular Mycorrhizal Fungus <i>Glomus intraradices</i> Senu Lato as Estimated by Real-Time PCR of Mitochondrial DNA. <i>Applied and Environmental Microbiology</i> , 2012, 78, 3630-3637.	3.1	27
50	Growth and nutrition of cowpea (<i>Vigna unguiculata</i>) under water deficit as influenced by microbial inoculation via seed coating. <i>Journal of Agronomy and Crop Science</i> , 2019, 205, 447-459.	3.5	27
51	The effect of EDDS chelate and inoculation with the arbuscular mycorrhizal fungus <i>Glomus intraradices</i> on the efficacy of lead phytoextraction by two tobacco clones. <i>Applied Soil Ecology</i> , 2007, 35, 163-173.	4.3	26
52	Management of nursery practices for efficient ectomycorrhizal fungi application in the production of <i>Quercus ilex</i> . <i>Symbiosis</i> , 2010, 52, 125-131.	2.3	26
53	Species-dependent partitioning of C and N stable isotopes between arbuscular mycorrhizal fungi and their C3 and C4 hosts. <i>Soil Biology and Biochemistry</i> , 2015, 82, 52-61.	8.8	26
54	Arbuscular mycorrhizal fungi colonization and physiological functions toward wetland plants under different water regimes. <i>Science of the Total Environment</i> , 2020, 716, 137040.	8.0	25

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55	Effect of inoculation with soil yeasts on mycorrhizal symbiosis of maize. <i>Pedobiologia</i> , 2006, 50, 341-345.	1.2	24
56	Interaction of arbuscular mycorrhizal fungi and rhizobia: Effects on flax yield in spoil-bank clay. <i>Journal of Plant Nutrition and Soil Science</i> , 2011, 174, 128-134.	1.9	24
57	Plant growth promotion of <i>Miscanthus giganteus</i> by endophytic bacteria and fungi on non-polluted and polluted soils. <i>World Journal of Microbiology and Biotechnology</i> , 2018, 34, 48.	3.6	24
58	The development of arbuscular mycorrhiza in two simulated stages of spoil-bank succession. <i>Applied Soil Ecology</i> , 2007, 35, 363-369.	4.3	23
59	Arbuscular mycorrhizal fungi are an alternative to the application of chemical fertilizer in the production of the medicinal and aromatic plant <i>Coriandrum sativum</i> L.. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2016, 79, 320-328.	2.3	23
60	A novel inserted membrane technique for studies of mycorrhizal extraradical mycelium. <i>Mycorrhiza</i> , 2001, 11, 291-296.	2.8	22
61	Does the sequence of plant dominants affect mycorrhiza development in simulated succession on spoil banks?. <i>Plant and Soil</i> , 2008, 302, 273-282.	3.7	22
62	Effects of inoculation with native arbuscular mycorrhizal fungi on clonal growth of <i>Potentilla reptans</i> and <i>Fragaria moschata</i> (Rosaceae). <i>Plant and Soil</i> , 2008, 308, 55-67.	3.7	22
63	Inoculation with a ligninolytic basidiomycete, but not root symbiotic ascomycetes, positively affects growth of highbush blueberry (Ericaceae) grown in a pine litter substrate. <i>Plant and Soil</i> , 2012, 355, 341-352.	3.7	22
64	Title is missing!. <i>Plant and Soil</i> , 1998, 207, 45-57.	3.7	21
65	The response of <i>Aster amellus</i> (Asteraceae) to mycorrhiza depends on the origins of both the soil and the fungi. <i>American Journal of Botany</i> , 2011, 98, 850-858.	1.7	21
66	Combined effects of fungal inoculants and the cytokinin-like growth regulator thidiazuron on growth, phytohormone contents and endophytic root fungi in <i>Miscanthus giganteus</i> . <i>Plant Physiology and Biochemistry</i> , 2017, 120, 120-131.	5.8	21
67	Growth response of three <i>Festuca rubra</i> clones to light quality and arbuscular mycorrhiza. <i>Folia Geobotanica</i> , 1998, 33, 159-169.	0.9	20
68	Effect of past agricultural use on the infectivity and composition of a community of arbuscular mycorrhizal fungi. <i>Agriculture, Ecosystems and Environment</i> , 2016, 221, 28-39.	5.3	20
69	The potential of mycorrhizal inoculation and organic amendment to increase yields of <i>Galega orientalis</i> and <i>Helianthus tuberosus</i> in a spoil-bank substrate. <i>Journal of Plant Nutrition and Soil Science</i> , 2011, 174, 664-672.	1.9	19
70	Seed Coating with Arbuscular Mycorrhizal Fungi for Improved Field Production of Chickpea. <i>Agronomy</i> , 2019, 9, 471.	3.0	19
71	Alien ectomycorrhizal plants differ in their ability to interact with co-introduced and native ectomycorrhizal fungi in novel sites. <i>ISME Journal</i> , 2020, 14, 2336-2346.	9.8	19
72	In vitro proliferation of <i>Glomus fistulosum</i> intraradical hyphae from mycorrhizal root segments of maize. <i>Mycological Research</i> , 1998, 102, 1067-1073.	2.5	18

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73	Interaction of soil filamentous fungi affects needle composition and nutrition of Norway spruce seedlings. <i>Trees - Structure and Function</i> , 2009, 23, 887-897.	1.9	18
74	Genetic, phenotypic and functional variation within a <i>Glomus geosporum</i> isolate cultivated with or without the stress of a highly alkaline anthropogenic sediment. <i>Applied Soil Ecology</i> , 2010, 45, 39-48.	4.3	18
75	Asymmetric response of root-associated fungal communities of an arbuscular mycorrhizal grass and an ectomycorrhizal tree to their coexistence in primary succession. <i>Mycorrhiza</i> , 2017, 27, 775-789.	2.8	18
76	Can mycorrhizal inoculation stimulate the growth and flowering of peat-grown ornamental plants under standard or reduced watering?. <i>Applied Soil Ecology</i> , 2014, 80, 93-99.	4.3	17
77	Early successional ectomycorrhizal fungi are more likely to naturalize outside their native range than other ectomycorrhizal fungi. <i>New Phytologist</i> , 2020, 227, 1289-1293.	7.3	17
78	Abiotic contexts consistently influence mycorrhiza functioning independently of the composition of synthetic arbuscular mycorrhizal fungal communities. <i>Mycorrhiza</i> , 2019, 29, 127-139.	2.8	16
79	Is mycorrhiza functioning influenced by the quantitative composition of the mycorrhizal fungal community?. <i>Soil Biology and Biochemistry</i> , 2021, 157, 108249.	8.8	16
80	Arbuscular Mycorrhizal Inoculant Increases Yield of Spice Pepper and Affects the Indigenous Fungal Community in the Field. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2012, 47, 603-606.	1.0	16
81	Co-Adaptation of Plants and Communities of Arbuscular Mycorrhizal Fungi to Their Soil Conditions. <i>Folia Geobotanica</i> , 2014, 49, 521-540.	0.9	15
82	Inoculation of grass and tree seedlings used for reclaiming eroded areas in Iceland with mycorrhizal fungi. <i>Folia Geobotanica</i> , 2003, 38, 209-222.	0.9	14
83	Establishment of mycorrhizal symbiosis in <i>Gentiana verna</i> . <i>Folia Geobotanica</i> , 2003, 38, 177-189.	0.9	12
84	Using microbial seed coating for improving cowpea productivity under a low-input agricultural system. <i>Journal of the Science of Food and Agriculture</i> , 2020, 100, 1092-1098.	3.5	11
85	Effect of clone selection, nitrogen supply, leaf damage and mycorrhizal fungi on stilbene and emodin production in knotweed. <i>BMC Plant Biology</i> , 2011, 11, 98.	3.6	10
86	Mycorrhizal Fungi as Helping Agents in Phytoremediation of Degraded and contaminated Soils. , 2006, , 237-257.		9
87	Factors influencing the production of stilbenes by the knotweed, <i>Reynoutria xbohemica</i> . <i>BMC Plant Biology</i> , 2010, 10, 19.	3.6	9
88	Decomposition of spruce litter needles of different quality by <i>Setulipes androsaceus</i> and <i>Thysanophora penicillioides</i> . <i>Plant and Soil</i> , 2008, 311, 151-159.	3.7	6
89	Root symbioses of <i>Alnus glutinosa</i> (L.) gaertn. and their possible role in alder decline: A preliminary study. <i>Folia Geobotanica Et Phytotaxonomica</i> , 1996, 31, 153-162.	0.4	5
90	Editorial: Advanced Microbial Biotechnologies for Sustainable Agriculture. <i>Frontiers in Microbiology</i> , 2021, 12, 634891.	3.5	3

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91	Knowledge on population biology of AMF as a tool for mycorrhizal technology: An introduction. <i>Folia Geobotanica</i> , 2003, 38, 111-112.	0.9	2
92	Growth and viability of mycorrhizal extraradical mycelia associated with three temperate orchid species. <i>Biologia (Poland)</i> , 2009, 64, 63-68.	1.5	2
93	Intercropping of <i>Tagetes patula</i> with cauliflower and carrot increases yield of cauliflower and tentatively reduces vegetable pests. <i>International Journal of Pest Management</i> , 2020, , 1-11.	1.8	0