Paola Bonfante

List of Publications by Year
in descending order

288 papers	22,333 citations	5574 82 h-index	11937 134 g-index
304 all docs	304 docs citations	304 times ranked	12945 citing authors

#	Article	IF	Citations
1	Mechanisms underlying beneficial plantâ€“fungus interactions in mycorrhizal symbiosis. Nature Communications, 2010, 1, 48.	12.8	990
2	Genome of an arbuscular mycorrhizal fungus provides insight into the oldest plant symbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20117-20122.	7.1	717
3	Plants, Mycorrhizal Fungi, and Bacteria: A Network of Interactions. Annual Review of Microbiology, 2009, 63, 363-383.	7.3	699
4	PÃ©rigord black truffle genome uncovers evolutionary origins and mechanisms of symbiosis. Nature, 2010, 464, 1033-1038.	27.8	641
5	Bacterialâ€“fungal interactions: ecology, mechanisms and challenges. FEMS Microbiology Reviews, 2018, 42, 335-352.	8.6	468
6	Shortâ€chain chitin oligomers from arbuscular mycorrhizal fungi trigger nuclear <scp>C</scp>a²⁺ spiking in <i><scp>M</scp>edicago truncatula</i> roots and their production is enhanced by strigolactone. New Phytologist, 2013, 198, 190-202.	7.3	453
7	Arbuscular Mycorrhizal Fungi Elicit a Novel Intracellular Apparatus in Medicago truncatula Root Epidermal Cells before Infection[W]. Plant Cell, 2005, 17, 3489-3499.	6.6	441
8	Genomeâ€wide reprogramming of regulatory networks, transport, cell wall and membrane biogenesis during arbuscular mycorrhizal symbiosis in <i>Lotus japonicus</i>. New Phytologist, 2009, 182, 200-212.	7.3	318
9	Disclosing arbuscular mycorrhizal fungal biodiversity in soil through a landâ€use gradient using a pyrosequencing approach. Environmental Microbiology, 2010, 12, 2165-2179.	3.8	313
10	The transcriptome of the arbuscular mycorrhizal fungus <i>Glomus intraradices</i> (DAOM 197198) reveals functional tradeoffs in an obligate symbiont. New Phytologist, 2012, 193, 755-769.	7.3	305
11	A Mycorrhizal-Specific Ammonium Transporter from <i>Lotus japonicus</i> Acquires Nitrogen Released by Arbuscular Mycorrhizal Fungi. Plant Physiology, 2009, 150, 73-83.	4.8	303
12	Plants and arbuscular mycorrhizal fungi: an evolutionary-developmental perspective. Trends in Plant Science, 2008, 13, 492-498.	8.8	287
13	Prepenetration Apparatus Assembly Precedes and Predicts the Colonization Patterns of Arbuscular Mycorrhizal Fungi within the Root Cortex of Both<i>Medicago truncatula</i>and<i>Daucus carota</i>Â. Plant Cell, 2008, 20, 1407-1420.	6.6	283
14	Unique and common traits in mycorrhizal symbioses. Nature Reviews Microbiology, 2020, 18, 649-660.	28.6	277
15	Tansley Review No. 82. Strategies of arbuscular mycorrhizal fungi when infecting host plants. New Phytologist, 1995, 130, 3-21.	7.3	259
16	Symbiosis with an endobacterium increases the fitness of a mycorrhizal fungus, raising its bioenergetic potential. ISME Journal, 2016, 10, 130-144.	9.8	233
17	<i>Rhizobium</i> â€“legume symbiosis shares an exocytotic pathway required for arbuscule formation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8316-8321.	7.1	213
18	Laser Microdissection Reveals That Transcripts for Five Plant and One Fungal Phosphate Transporter Genes Are Contemporaneously Present in Arbusculated Cells. Molecular Plant-Microbe Interactions, 2007, 20, 1055-1062.	2.6	200

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19	Unravelling Soil Fungal Communities from Different Mediterranean Land-Use Backgrounds. PLoS ONE, 2012, 7, e34847.	2.5	194
20	â€˜Candidatus Glomeribacter gigasporarumâ€™ gen. nov., sp. nov., an endosymbiont of arbuscular mycorrhizal fungi. International Journal of Systematic and Evolutionary Microbiology, 2003, 53, 121-124.	1.7	188
21	Truffles: much more than a prized and local fungal delicacy. FEMS Microbiology Letters, 2006, 260, 1-8.	1.8	177
22	The genome of the obligate endobacterium of an AM fungus reveals an interphylum network of nutritional interactions. ISME Journal, 2012, 6, 136-145.	9.8	176
23	Expression profiles of a phosphate transporter gene (GmosPT) from the endomycorrhizal fungus Glomus mosseae. Mycorrhiza, 2005, 15, 620-627.	2.8	173
24	Chitinase in roots of mycorrhizal Allium porrum: regulation and localization. Planta, 1989, 177, 447-455.	3.2	171
25	Truffle volatiles inhibit growth and induce an oxidative burst in Arabidopsis thaliana. New Phytologist, 2007, 175, 417-424.	7.3	168
26	Independent recruitment of saprotrophic fungi as mycorrhizal partners by tropical achlorophyllous orchids. New Phytologist, 2009, 184, 668-681.	7.3	167
27	Arbuscular mycorrhizal hyphopodia and germinated spore exudates trigger Ca²⁺ spiking in the legume and nonlegume root epidermis. New Phytologist, 2011, 189, 347-355.	7.3	165
28	A Diffusible Signal from Arbuscular Mycorrhizal Fungi Elicits a Transient Cytosolic Calcium Elevation in Host Plant Cells. Plant Physiology, 2007, 144, 673-681.	4.8	164
29	Detection and Identification of Bacterial Endosymbionts in Arbuscular Mycorrhizal Fungi Belonging to the Family Gigasporaceae. Applied and Environmental Microbiology, 2000, 66, 4503-4509.	3.1	156
30	Polymorphism at the ribosomal DNA ITS and its relation to postglacial reâ€colonization routes of the Perigord truffle Tuber melanosporum. New Phytologist, 2004, 164, 401-411.	7.3	153
31	Differential Expression of a Metallothionein Gene during the Presymbiotic versus the Symbiotic Phase of an Arbuscular Mycorrhizal Fungus. Plant Physiology, 2002, 130, 58-67.	4.8	152
32	The Mycorrhizal Fungus Gigaspora margarita Possesses a CuZn Superoxide Dismutase That Is Up-Regulated during Symbiosis with Legume Hosts. Plant Physiology, 2005, 137, 1319-1330.	4.8	151
33	From root to fruit: RNA-Seq analysis shows that arbuscular mycorrhizal symbiosis may affect tomato fruit metabolism. BMC Genomics, 2014, 15, 221.	2.8	149
34	Who lives in a fungus? The diversity, origins and functions of fungal endobacteria living in Mucoromycota. ISME Journal, 2017, 11, 1727-1735.	9.8	145
35	Glomeromycotean associations in liverworts: a molecular, cellular, and taxonomic analysis. American Journal of Botany, 2007, 94, 1756-1777.	1.7	141
36	Presymbiotic growth and sporal morphology are affected in the arbuscular mycorrhizal fungus Gigaspora margarita cured of its endobacteria. Cellular Microbiology, 2007, 9, 1716-1729.	2.1	140

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37	The obligate endobacteria of arbuscular mycorrhizal fungi are ancient heritable components related to the <i>Mollicutes</i>. ISME Journal, 2010, 4, 862-871.	9.8	136
38	The Lotus japonicus LjSym4 Gene Is Required for the Successful Symbiotic Infection of Root Epidermal Cells. Molecular Plant-Microbe Interactions, 2000, 13, 1109-1120.	2.6	135
39	ITS-1 versus ITS-2 pyrosequencing: a comparison of fungal populations in truffle grounds. Mycologia, 2011, 103, 1184-1193.	1.9	135
40	Dating in the dark: how roots respond to fungal signals to establish arbuscular mycorrhizal symbiosis. Current Opinion in Plant Biology, 2011, 14, 451-457.	7.1	135
41	Nitrogen Fixation Genes in an Endosymbiotic Burkholderia Strain. Applied and Environmental Microbiology, 2001, 67, 725-732.	3.1	134
42	Cephalanthera longifolia (Neottieae, Orchidaceae) is mixotrophic: a comparative study between green and nonphotosynthetic individuals. Canadian Journal of Botany, 2006, 84, 1462-1477.	1.1	133
43	Discrimination of truffle fruiting body versus mycelial aromas by stir bar sorptive extraction. Phytochemistry, 2007, 68, 2584-2598.	2.9	132
44	Cell wall remodeling in mycorrhizal symbiosis: a way towards biotrophism. Frontiers in Plant Science, 2014, 5, 237.	3.6	132
45	Detection of a novel intracellular microbiome hosted in arbuscular mycorrhizal fungi. ISME Journal, 2014, 8, 257-270.	9.8	128
46	Vertical Transmission of Endobacteria in the Arbuscular Mycorrhizal Fungus Gigaspora margarita through Generation of Vegetative Spores. Applied and Environmental Microbiology, 2004, 70, 3600-3608.	3.1	126
47	Amplification of genomic DNA of arbuscular-mycorrhizal (AM) fungi by PCR using short arbitrary primers. Mycological Research, 1993, 97, 1351-1357.	2.5	121
48	Molecular identification of mycorrhizal fungi by direct amplification of microsatellite regions. Mycological Research, 1997, 101, 425-432.	2.5	121
49	Transcriptome Analysis of Arbuscular Mycorrhizal Roots during Development of the Prepenetration Apparatus. Plant Physiology, 2007, 144, 1455-1466.	4.8	117
50	Molecular phylogeny and historical biogeography of the genus <i>Tuber,</i> the â€˜true trufflesâ€™. Journal of Biogeography, 2008, 35, 815-829.	3.0	117
51	Arbuscular mycorrhizal dialogues: do you speak â€˜plantishâ€™ or â€˜fungishâ€™?. Trends in Plant Science, 2015, 20, 150-154.	8.8	117
52	Morphological and molecular typing of the below-ground fungal community in a natural Tuber magnatum truffle-ground. FEMS Microbiology Letters, 2005, 245, 307-313.	1.8	115
53	Strigolactones cross the kingdoms: plants, fungi, and bacteria in the arbuscular mycorrhizal symbiosis. Journal of Experimental Botany, 2018, 69, 2175-2188.	4.8	115
54	CAROTENOID CLEAVAGE DIOXYGENASE 7 modulates plant growth, reproduction, senescence, and determinate nodulation in the model legume Lotus japonicus. Journal of Experimental Botany, 2013, 64, 1967-1981.	4.8	114

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55	The apocarotenoid metabolite zaxinone regulates growth and strigolactone biosynthesis in rice. Nature Communications, 2019, 10, 810.	12.8	113
56	Cellulose and pectin localization in roots of mycorrhizalAllium porrum: labelling continuity between host cell wall and interfacial material. Planta, 1990, 180, 537-547.	3.2	112
57	Mucoid Mutants of the Biocontrol Strain Pseudomonas fluorescens CHA0 Show Increased Ability in Biofilm Formation on Mycorrhizal and Nonmycorrhizal Carrot Roots. Molecular Plant-Microbe Interactions, 2001, 14, 255-260.	2.6	112
58	Assessment of arbuscular mycorrhizal fungal diversity in roots of Solidago gigantea growing in a polluted soil in Northern Italy. Environmental Microbiology, 2006, 8, 971-983.	3.8	109
59	Identification and functional characterization of a sulfate transporter induced by both sulfur starvation and mycorrhiza formation in <i><scp>L</scp>otus japonicus</i>. New Phytologist, 2014, 204, 609-619.	7.3	108
60	Omics approaches revealed how arbuscular mycorrhizal symbiosis enhances yield and resistance to leaf pathogen in wheat. Scientific Reports, 2018, 8, 9625.	3.3	108
61	Multiple Exocytotic Markers Accumulate at the Sites of Perifungal Membrane Biogenesis in Arbuscular Mycorrhizas. Plant and Cell Physiology, 2012, 53, 244-255.	3.1	107
62	Intrasporal variability of ribosomal sequences in the endomycorrhizal fungusGigaspora margarita. Molecular Ecology, 1999, 8, 37-45.	3.9	104
63	Mosaic genome of endobacteria in arbuscular mycorrhizal fungi: Transkingdom gene transfer in an ancient mycoplasma-fungus association. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7785-7790.	7.1	103
64	Actin versus tubulin configuration in arbusculeâ€containing cells from mycorrhizal tobacco roots. New Phytologist, 1998, 140, 745-752.	7.3	102
65	Inhibition of fungal growth by plant chitinases and?-1,3-glucanases. Protoplasma, 1992, 171, 34-43.	2.1	99
66	The urgent need for microbiology literacy in society. Environmental Microbiology, 2019, 21, 1513-1528.	3.8	99
67	Isolation, Free-Living Capacities, and Genome Structure of â€œCandidatus Glomeribacter gigasporarum,â€• the Endocellular Bacterium of the Mycorrhizal Fungus Gigaspora margarita. Journal of Bacteriology, 2004, 186, 6876-6884.	2.2	98
68	The arbuscular mycorrhizal status has an impact on the transcriptome profile and amino acid composition of tomato fruit. BMC Plant Biology, 2012, 12, 44.	3.6	98
69	The phosphate transporters LjPT4 and MtPT4 mediate early root responses to phosphate status in non mycorrhizal roots. Plant, Cell and Environment, 2016, 39, 660-671.	5.7	98
70	Characterization of an Amino Acid Permease from the Endomycorrhizal Fungus <i>Glomus mosseae</i> Â Â. Plant Physiology, 2008, 147, 429-437.	4.8	97
71	Arbuscular mycorrhizal fungi reduce growth and infect roots of the nonâ€host plant <i><scp>A</scp>rabidopsis thaliana</i>. Plant, Cell and Environment, 2013, 36, 1926-1937.	5.7	97
72	Fungal association and utilization of phosphate by plants: success, limitations, and future prospects. Frontiers in Microbiology, 2015, 6, 984.	3.5	96

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73	Effects of different management practices on arbuscular mycorrhizal fungal diversity in maize fields by a molecular approach. Biology and Fertility of Soils, 2012, 48, 911-922.	4.3	95
74	Pezizomycetes genomes reveal the molecular basis of ectomycorrhizal truffle lifestyle. Nature Ecology and Evolution, 2018, 2, 1956-1965.	7.8	95
75	Storage and secretion processes in the spore of Gigaspora margarita Becker &Hall as revealed by highâ€pressure freezing and freeze substitution. New Phytologist, 1994, 128, 93-101.	7.3	93
76	Native soils with their microbiotas elicit a state of alert in tomato plants. New Phytologist, 2018, 220, 1296-1308.	7.3	93
77	Ericoid mycorrhizal fungi from heavy metal polluted soils: their identification and growth in the presence of zinc ions. Mycological Research, 2000, 104, 338-344.	2.5	91
78	Impact of Biocontrol Pseudomonas fluorescens CHA0 and a Genetically Modified Derivative on the Diversity of Culturable Fungi in the Cucumber Rhizosphere. Applied and Environmental Microbiology, 2001, 67, 1851-1864.	3.1	90
79	Arbuscular Mycorrhizal Symbiosis Requires a Phosphate Transceptor in the Gigaspora margarita Fungal Symbiont. Molecular Plant, 2016, 9, 1583-1608.	8.3	90
80	Bacterial associations with mycorrhizal fungi: Close and distant friends in the rhizosphere. Trends in Microbiology, 1997, 5, 496-501.	7.7	89
81	Host and non-host roots in rice: cellular and molecular approaches reveal differential responses to arbuscular mycorrhizal fungi. Frontiers in Plant Science, 2015, 6, 636.	3.6	89
82	Arbuscular mycorrhizal fungi: a specialised niche for rhizospheric and endocellular bacteria. Antonie Van Leeuwenhoek, 2002, 81, 365-371.	1.7	88
83	The expression of GintPT, the phosphate transporter of Rhizophagus irregularis, depends on the symbiotic status and phosphate availability. Planta, 2013, 237, 1267-1277.	3.2	88
84	Rice flooding negatively impacts root branching and arbuscular mycorrhizal colonization, but not fungal viability. Plant, Cell and Environment, 2014, 37, 557-572.	5.7	84
85	At the nexus of three kingdoms: the genome of the mycorrhizal fungus <i>Gigaspora margarita</i> provides insights into plant, endobacterial and fungal interactions. Environmental Microbiology, 2020, 22, 122-141.	3.8	84
86	454 Pyrosequencing Analysis of Fungal Assemblages from Geographically Distant, Disparate Soils Reveals Spatial Patterning and a Core Mycobiome. Diversity, 2013, 5, 73-98.	1.7	82
87	Transcriptional activation of a maize alpha-tubulin gene in mycorrhizal maize and transgenic tobacco plants. Plant Journal, 1996, 9, 737-743.	5.7	81
88	Differential location of ?-expansin proteins during the accommodation of root cells to an arbuscular mycorrhizal fungus. Planta, 2005, 220, 889-899.	3.2	81
89	The Arbuscular Mycorrhizal Symbiosis: Origin and Evolution of a Beneficial Plant Infection. PLoS Pathogens, 2012, 8, e1002600.	4.7	79
90	Ericoid mycorrhizal fungi: cellular and molecular bases of their interactions with the host plant. Canadian Journal of Botany, 1995, 73, 557-568.	1.1	78

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91	Immunolocalization of hydrophobin HYDPtâ€1 from the ectomycorrhizal basidiomycete Pisolithus tinctorius during colonization of Eucalyptus globulus roots. New Phytologist, 2001, 149, 127-135.	7.3	78
92	Dual requirement of the LjSym4 gene for mycorrhizal development in epidermal and cortical cells of Lotus japonicus roots. New Phytologist, 2002, 154, 741-749.	7.3	78
93	Biotic and Abiotic Stimulation of Root Epidermal Cells Reveals Common and Specific Responses to Arbuscular Mycorrhizal Fungi Â. Plant Physiology, 2009, 149, 1424-1434.	4.8	78
94	Defense Related Phytohormones Regulation in Arbuscular Mycorrhizal Symbioses Depends on the Partner Genotypes. Journal of Chemical Ecology, 2014, 40, 791-803.	1.8	78
95	A new class of conjugated strigolactone analogues with fluorescent properties: synthesis and biological activity. Organic and Biomolecular Chemistry, 2009, 7, 3413.	2.8	77
96	<i>Tuber melanosporum,</i> when dominant, affects fungal dynamics in truffle grounds. New Phytologist, 2010, 185, 237-247.	7.3	77
97	Rice root colonisation by mycorrhizal and endophytic fungi in aerobic soil. Annals of Applied Biology, 2009, 154, 195-204.	2.5	76
98	Mucoromycota: going to the roots of plant-interacting fungi. Fungal Biology Reviews, 2020, 34, 100-113.	4.7	75
99	Apocarotenoids: Old and New Mediators of the Arbuscular Mycorrhizal Symbiosis. Frontiers in Plant Science, 2019, 10, 1186.	3.6	74
100	Comparative structure of vesicular-arbuscular mycorrhizas and ectomycorrhizas. Plant and Soil, 1994, 159, 79-88.	3.7	72
101	Cell Wall Proteins of the Ectomycorrhizal Basidiomycete Pisolithus tinctorius: Identification, Function, and Expression in Symbiosis. Fungal Genetics and Biology, 1999, 27, 161-174.	2.1	72
102	A nutrient-regulated, dual localization phospholipase A2 in the symbiotic fungus Tuber borchii. EMBO Journal, 2001, 20, 5079-5090.	7.8	72
103	Presymbiotic factors released by the arbuscular mycorrhizal fungus <i>Gigaspora margarita</i> induce starch accumulation in <i>Lotus japonicus</i> roots. New Phytologist, 2009, 183, 53-61.	7.3	72
104	A Novel Class of Ectomycorrhiza-Regulated Cell Wall Polypeptides in Pisolithus tinctorius. Molecular Plant-Microbe Interactions, 1999, 12, 862-871.	2.6	71
105	Localization of ascorbic acid, ascorbic acid oxidase, and glutathione in roots of Cucurbita maxima L.. Journal of Experimental Botany, 2004, 55, 2589-2597.	4.8	70
106	New Potent Fluorescent Analogues of Strigolactones: Synthesis and Biological Activity in Parasitic Weed Germination and Fungal Branching. European Journal of Organic Chemistry, 2011, 2011, 3781-3793.	2.4	69
107	<i><scp>E</scp>ndogone</i>, one of the oldest plantâ€associated fungi, host unique Mollicutesâ€related endobacteria. New Phytologist, 2015, 205, 1464-1472.	7.3	69
108	DNA probes for identification of the ectomycorrhizal fungusTuber magnatumPico. FEMS Microbiology Letters, 1993, 114, 245-251.	1.8	66

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109	Isolation and Characterization of Differentially Expressed Genes in the Mycelium and Fruit Body of <i>Tuber borchii</i>. Applied and Environmental Microbiology, 2002, 68, 4574-4582.	3.1	66
110	Ectomycorrhizal Inocybe species associate with the mycoheterotrophic orchid Epipogium aphyllum but not its asexual propagules. Annals of Botany, 2009, 104, 595-610.	2.9	66
111	Tuber magnatum Pico, a species of limited geographical distribution: its genetic diversity inside and outside a truffle ground. Environmental Microbiology, 2005, 7, 55-65.	3.8	63
112	Is the Perigord black truffle threatened by an invasive species? We dreaded it and it has happened!. New Phytologist, 2008, 178, 699-702.	7.3	63
113	The exudate from an arbuscular mycorrhizal fungus induces nitric oxide accumulation in Medicago truncatula roots. Mycorrhiza, 2012, 22, 259-269.	2.8	62
114	Systems biology and â€œomicsâ€•tools: A cooperation for next-generation mycorrhizal studies. Plant Science, 2013, 203-204, 107-114.	3.6	61
115	An interdomain network: the endobacterium of a mycorrhizal fungus promotes antioxidative responses in both fungal and plant hosts. New Phytologist, 2016, 211, 265-275.	7.3	61
116	Location of a cell-wall hydroxyproline-rich glycoprotein, cellulose and ?-1,3-glucans in apical and differentiated regions of maize mycorrhizal roots. Planta, 1994, 195, 201.	3.2	60
117	Two putative-aquaporin genes are differentially expressed during arbuscular mycorrhizal symbiosis in Lotus japonicus. BMC Plant Biology, 2012, 12, 186.	3.6	60
118	Expression and localization of polygalacturonase during the outgrowth of lateral roots in Allium porrum L.. Planta, 1992, 188, 164-172.	3.2	58
119	Genetic variability of Tuber uncinatum and its relatedness to other black truffles. Environmental Microbiology, 2002, 4, 584-594.	3.8	58
120	Early Lotus japonicus root transcriptomic responses to symbiotic and pathogenic fungal exudates. Frontiers in Plant Science, 2015, 6, 480.	3.6	58
121	Biology of Fungi and Their Bacterial Endosymbionts. Annual Review of Phytopathology, 2018, 56, 289-309.	7.8	58
122	The interface between fungal hyphae and orchid protocorm cells. Canadian Journal of Botany, 1996, 74, 1861-1870.	1.1	57
123	Phylogenetic analysis of Glomeromycota by partial LSU rDNA sequences. Mycorrhiza, 2006, 16, 183-189.	2.8	57
124	Soil metaproteomics reveals an inter-kingdom stress response to the presence of black truffles. Scientific Reports, 2016, 6, 25773.	3.3	56
125	Unique arbuscular mycorrhizal fungal communities uncovered in date palm plantations and surrounding desert habitats of Southern Arabia. Mycorrhiza, 2011, 21, 195-209.	2.8	55
126	The mitochondrial genome of the arbuscular mycorrhizal fungus <i>Gigaspora margarita</i> reveals two unsuspected <i>trans</i>â€splicing events of group I introns. New Phytologist, 2012, 194, 836-845.	7.3	55

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127	Truffle BrÃ»lÃ©s Have an Impact on the Diversity of Soil Bacterial Communities. PLoS ONE, 2013, 8, e61945.	2.5	55
128	Specific PCR-primers as a reliable tool for the detection of white truffles in mycorrhizal roots. New Phytologist, 1999, 141, 511-516.	7.3	54
129	The CRE1 Cytokinin Pathway Is Differentially Recruited Depending on Medicago truncatula Root Environments and Negatively Regulates Resistance to a Pathogen. PLoS ONE, 2015, 10, e0116819.	2.5	54
130	A Burkholderia Strain Living Inside the Arbuscular Mycorrhizal Fungus Gigaspora margarita Possesses the vacB Gene, Which Is Involved in Host Cell Colonization by Bacteria. Microbial Ecology, 2000, 39, 137-144.	2.8	53
131	The future has roots in the past: the ideas and scientists that shaped mycorrhizal research. New Phytologist, 2018, 220, 982-995.	7.3	53
132	Soil analysis reveals the presence of an extended mycelial network in a Tuber magnatumÃ¢Â€Âƒtruffle-ground. FEMS Microbiology Ecology, 2010, 71, 43-49.	2.7	52
133	ITS fungal barcoding primers versus 18S AMFâ€specific primers reveal similar AMFâ€based diversity patterns in roots and soils of three mountain vineyards. Environmental Microbiology Reports, 2017, 9, 658-667.	2.4	52
134	The virome of the arbuscular mycorrhizal fungus <i>Gigaspora margarita</i> reveals the first report of DNA fragments corresponding to replicating nonâ€retroviral RNA viruses in fungi. Environmental Microbiology, 2018, 20, 2012-2025.	3.8	52
135	The plant microbiota: composition, functions, and engineering. Current Opinion in Biotechnology, 2022, 73, 135-142.	6.6	52
136	Building a mycorrhizal cell: How to reach compatibility between plants and arbuscular mycorrhizal fungi. Journal of Plant Interactions, 2005, 1, 3-13.	2.1	51
137	Chrysotile asbestos is progressively converted into a non-fibrous amorphous material by the chelating action of lichen metabolites. Journal of Environmental Monitoring, 2005, 7, 764.	2.1	51
138	Common and not so common symbiotic entry. Trends in Plant Science, 2010, 15, 540-545.	8.8	51
139	Growing Research Networks on Mycorrhizae for Mutual Benefits. Trends in Plant Science, 2018, 23, 975-984.	8.8	51
140	Differential spatio-temporal expression of carotenoid cleavage dioxygenases regulates apocarotenoid fluxes during AM symbiosis. Plant Science, 2015, 230, 59-69.	3.6	49
141	Epidermal cells of a symbiosis-defective mutant of Lotus japonicus show altered cytoskeleton organisation in the presence of a mycorrhizal fungus. Protoplasma, 2002, 219, 43-50.	2.1	48
142	Functional properties and differential mode of regulation of the nitrate transporter from a plant symbiotic ascomycete. Biochemical Journal, 2006, 394, 125-134.	3.7	48
143	The mycobiota: fungi take their place between plants and bacteria. Current Opinion in Microbiology, 2019, 49, 18-25.	5.1	48
144	â€˜Candidatus Moeniiplasma glomeromycotorumâ€™, an endobacterium of arbuscular mycorrhizal fungi. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 1177-1184.	1.7	48

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145	The plant nucleus in mycorrhizal roots: positional and structural modifications. Biology of the Cell, 1992, 75, 235-243.	2.0	47
146	The Mutualistic Interaction between Plants and Arbuscular Mycorrhizal Fungi. Microbiology Spectrum, 2016, 4, .	3.0	47
147	Polygalacturonase activity and location in arbuscular mycorrhizal roots of Allium porrum L.. Mycorrhiza, 1995, 5, 157-163.	2.8	46
148	An <scp>AM</scp>â€induced, <i><scp>MYB</scp></i>â€family gene of <i>Lotus japonicus</i> (<i>Lj<scp>MAMI</scp></i>) affects root growth in an <scp>AM</scp>â€independent manner. Plant Journal, 2013, 73, 442-455.	5.7	46
149	Ultrastructural localization of cell surface sugar residues in ericoid mycorrhizal fungi by gold-labeled lectins. Protoplasma, 1987, 139, 25-35.	2.1	45
150	Soil Fungal Hyphae Bind and Attack Asbestos Fibers. Angewandte Chemie - International Edition, 2003, 42, 219-222.	13.8	45
151	Bacterial and fungal communities associated with<i>Tuber magnatum</i>â€productive niches. Plant Biosystems, 2010, 144, 323-332.	1.6	45
152	The Perigord black truffle responds to cold temperature with an extensive reprogramming of its transcriptional activity. Fungal Genetics and Biology, 2011, 48, 585-591.	2.1	45
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