Marjo Helander

List of Publications by Year
in descending order

113 papers	6,175 citations	81900 39 h-index	74163 75 g-index
116 all docs	116 docs citations	116 times ranked	4536 citing authors

#	Article	IF	Citations
1	FUNGAL ENDOPHYTES: A Continuum of Interactions with Host Plants. Annual Review of Ecology, Evolution, and Systematics, 1998, 29, 319-343.	6.7	866
2	Evolution of endophyte?plant symbioses. Trends in Plant Science, 2004, 9, 275-280.	8.8	521
3	Model systems in ecology: dissecting the endophyteâ€“grass literature. Trends in Plant Science, 2006, 11, 428-433.	8.8	265
4	Endophytic mediation of reactive oxygen species and antioxidant activity in plants: a review. Fungal Diversity, 2012, 54, 1-10.	12.3	251
5	Defensive mutualism between plants and endophytic fungi?. Fungal Diversity, 2010, 41, 101-113.	12.3	216
6	Chemical Ecology Mediated by Fungal Endophytes in Grasses. Journal of Chemical Ecology, 2013, 39, 962-968.	1.8	165
7	Glyphosate in northern ecosystems. Trends in Plant Science, 2012, 17, 569-574.	8.8	162
8	Vertically transmitted fungal endophytes: different responses of host-parasite systems to environmental conditions. Oikos, 2002, 99, 173-183.	2.7	132
9	Climate change-driven species' range shifts filtered by photoperiodism. Nature Climate Change, 2012, 2, 239-242.	18.8	132
10	Endophytic EpichloÃ« species and their grass hosts: from evolution to applications. Plant Molecular Biology, 2016, 90, 665-675.	3.9	125
11	Asexual Neotyphodium endophytes in a native grass reduce competitive abilities. Ecology Letters, 2004, 7, 304-313.	6.4	112
12	Endophyte-grass-herbivore interactions: the case of Neotyphodium endophytes in Arizona fescue populations. Oecologia, 1999, 121, 411-420.	2.0	98
13	EpichloÃ« grass endophytes in sustainable agriculture. Nature Plants, 2016, 2, 15224.	9.3	98
14	Endophytic fungi in wild and cultivated grasses in Finland. Ecography, 2000, 23, 360-366.	4.5	91
15	Glyphosate decreases mycorrhizal colonization and affects plant-soil feedback. Science of the Total Environment, 2018, 642, 285-291.	8.0	87
16	Are endophyte-mediated effects on herbivores conditional on soil nutrients?. Oecologia, 2005, 142, 38-45.	2.0	84
17	Genetic Compatibility Determines Endophyte-Grass Combinations. PLoS ONE, 2010, 5, e11395.	2.5	80
18	Defoliation and mycorrhizal symbiosis: a functional balance between carbon sources and below-ground sinks. Ecology Letters, 1999, 2, 19-26.	6.4	79

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19	Nutritional niche overlap potentiates the use of endophytes in biocontrol of a tree disease. BioControl, 2015, 60, 655-667.	2.0	79
20	Fragmented environment affects birch leaf endophytes. New Phytologist, 2007, 175, 547-553.	7.3	78
21	Resistance to Dutch Elm Disease Reduces Presence of Xylem Endophytic Fungi in Elms (Ulmus spp.). PLoS ONE, 2013, 8, e56987.	2.5	76
22	Simulated acid rain affects birch leaf endophyte populations. Microbial Ecology, 1993, 26, 227-34.	2.8	74
23	Symbiotically modified organisms: nontoxic fungal endophytes in grasses. Trends in Plant Science, 2013, 18, 420-427.	8.8	72
24	ENVIRONMENTAL CONDITIONS AND HOST GENOTYPE DIRECT GENETIC DIVERSITY OF VENTURIA DITRICHA, A FUNGAL ENDOPHYTE OF BIRCH TREES. Evolution; International Journal of Organic Evolution, 2002, 56, 1566-1573.	2.3	70
25	Trends of some airborne tree pollen in the Nordic countries and Austria, 1980â€"1993. Grana, 1996, 35, 171-178.	0.8	67
26	Birch family and environmental conditions affect endophytic fungi in leaves. Oecologia, 1999, 118, 151-156.	2.0	66
27	Endophytic fungi in Scots pine needles: spatial variation and consequences of simulated acid rain. Canadian Journal of Botany, 1994, 72, 1108-1113.	1.1	63
28	Leaf surface traits: overlooked determinants of birch resistance to herbivores and foliar micro-fungi?. Trees - Structure and Function, 2005, 19, 191-197.	1.9	59
29	Endophytic fungus decreases plant virus infections in meadow ryegrass (Lolium pratense). Biology Letters, 2006, 2, 620-623.	2.3	56
30	Susceptibility of endophyte-infected grasses to winter pathogens (snow molds). Canadian Journal of Botany, 2006, 84, 1043-1051.	1.1	56
31	Glyphosate-based herbicides influence antioxidants, reproductive hormones and gut microbiome but not reproduction: A long-term experiment in an avian model. Environmental Pollution, 2020, 266, 115108.	7.5	55
32	Classification of the glyphosate target enzyme (5-enolpyruvylshikimate-3-phosphate synthase) for assessing sensitivity of organisms to the herbicide. Journal of Hazardous Materials, 2021, 408, 124556.	12.4	55
33	Fungal endophytes help prevent weed invasions. Agriculture, Ecosystems and Environment, 2013, 165, 1-5.	5.3	54
34	Silicon, endophytes and secondary metabolites as grass defenses against mammalian herbivores. Frontiers in Plant Science, 2014, 5, 478.	3.6	53
35	Transfer of endophyte-origin defensive alkaloids from a grass to a hemiparasitic plant. Ecology Letters, 2005, 8, 1256-1263.	6.4	52
36	Effects of air pollution and other environmental factors on birch pollen allergens. Allergy: European Journal of Allergy and Clinical Immunology, 1997, 52, 1207-1214.	5.7	49

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37	Effects of a glyphosate-based herbicide on soil animal trophic groups and associated ecosystem functioning in a northern agricultural field. Scientific Reports, 2019, 9, 8540.	3.3	48
38	EpichloÃ« Fungal Endophytes for Grassland Ecosystems. Sustainable Agriculture Reviews, 2016, , 233-305.	1.1	44
39	Occurrence and Genetic Structure of the Systemic Grass Endophyte EpichloÃ« festucae in Fine Fescue Populations. Microbial Ecology, 2007, 53, 20-29.	2.8	42
40	Glyphosate residues in soil affect crop plant germination and growth. Scientific Reports, 2019, 9, 19653.	3.3	41
41	Glyphosate-Modulated Biosynthesis Driving Plant Defense and Species Interactions. Trends in Plant Science, 2021, 26, 312-323.	8.8	41
42	Environmental conditions and host plant origin override endophyte effects on invertebrate communities. Fungal Diversity, 2011, 47, 109-118.	12.3	39
43	Micro-fungi and invertebrate herbivores on birch trees: fungal mediated plant-herbivore interactions or responses to host quality?. Ecology Letters, 2002, 5, 648-655.	6.4	38
44	Circadian periodicity of airborne pollen and spores; significance of sampling height. Aerobiologia, 1991, 7, 129-135.	1.7	37
45	Endophyteâ€mediated interactions between woody plants and insect herbivores?. Entomologia Experimentalis Et Applicata, 1996, 80, 269-271.	1.4	37
46	Variable effects of endophytic fungus on seedling establishment of fine fescues. Oecologia, 2009, 159, 49-57.	2.0	37
47	The Effects of Endophytes on Seed Production and Seed Predation of Tall Fescue and Meadow Fescue. Microbial Ecology, 2010, 60, 928-934.	2.8	35
48	Toward Comprehensive Plant Microbiome Research. Frontiers in Ecology and Evolution, 2020, 8, .	2.2	35
49	Effects of parental exposure to glyphosate-based herbicides on embryonic development and oxidative status: a long-term experiment in a bird model. Scientific Reports, 2020, 10, 6349.	3.3	34
50	EpichloÃ« Endophytes Alter Inducible Indirect Defences in Host Grasses. PLoS ONE, 2014, 9, e101331.	2.5	33
51	Alkaloid Quantities in Endophyte-Infected Tall Fescue are Affected by the Plant-Fungus Combination and Environment. Journal of Chemical Ecology, 2016, 42, 118-126.	1.8	33
52	Birch pollen production, transport and deposition for the period 1984â€"1993 at Kevo, northernmost Finland. Aerobiologia, 1994, 10, 183-191.	1.7	32
53	Characterization of phenolic compounds from inner bark of <i>Betula pendula</i>. Holzforschung, 2012, 66, 171-181.	1.9	32
54	Dark septate endophytes: mutualism from by-products?. Trends in Plant Science, 2022, 27, 247-254.	8.8	32

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55	Responses of pine needle endophytes to air pollution. New Phytologist, 1995, 131, 223-229.	7.3	31
56	Non-systemic fungal endophytes in Festuca rubra plants infected by EpichloÃ« festucae in subarctic habitats. Fungal Diversity, 2013, 60, 25-32.	12.3	31
57	Risk in the circular food economy: Glyphosate-based herbicide residues in manure fertilizers decrease crop yield. Science of the Total Environment, 2021, 750, 141422.	8.0	30
58	Endophytic fungi in wild and cultivated grasses in Finland. Ecography, 2000, 23, 360-366.	4.5	30
59	Birch leaf endophytes in managed and natural boreal forests. Canadian Journal of Forest Research, 2006, 36, 3239-3245.	1.7	27
60	Heritable EpichloÃ« symbiosis shapes fungal but not bacterial communities of plant leaves. Scientific Reports, 2019, 9, 5253.	3.3	27
61	Female Preference and Adverse Developmental Effects of Glyphosate-Based Herbicides on Ecologically Relevant Traits in Japanese Quails. Environmental Science & Technology, 2020, 54, 1128-1135.	10.0	27
62	Responses of phyllosphere microfungi to simulated sulphuric and nitric acid deposition. Mycological Research, 1993, 97, 533-537.	2.5	25
63	The role of foliar microfungi in mountain birch - insect herbivore relationships. Ecography, 1997, 20, 116-122.	4.5	24
64	The performance of the autumnal moth is lower on trees infected by birch rust. Mycological Research, 1995, 99, 994-996.	2.5	23
65	Effects of watering and simulated acid rain on quantity of phyllosphere fungi of birch leaves. Microbial Ecology, 1990, 19, 119-125.	2.8	22
66	Neotyphodium fungal endophyte in tall fescue (Schedonorus phoenix): a comparison of three Northern European wild populations and the cultivar Kentucky-31. Fungal Diversity, 2013, 60, 15-24.	12.3	22
67	Glyphosate-based herbicide affects the composition of microbes associated with Colorado potato beetle (<i>Leptinotarsa decemlineata</i>). FEMS Microbiology Letters, 2020, 367, .	1.8	22
68	Endophyte infection, nutrient status of the soil and duration of snow cover influence the performance of meadow fescue in subâ€artic conditions. Grass and Forage Science, 2008, 63, 324-330.	2.9	20
69	Adaptation of bacteria to glyphosate: a microevolutionary perspective of the enzyme 5â€enolpyruvylshikimateâ€3â€phosphate synthase. Environmental Microbiology Reports, 2021, 13, 309-316.	2.4	20
70	Phenolic Compounds of the Inner Bark of Betula pendula: Seasonal and Genetic Variation and Induction by Wounding. Journal of Chemical Ecology, 2012, 38, 1410-1418.	1.8	19
71	Consumption of grass endophytes alters the ultraviolet spectrum of vole urine. Oecologia, 2008, 156, 333-340.	2.0	18
72	Fungal-Mediated Multitrophic Interactions - Do Grass Endophytes in Diet Protect Voles from Predators?. PLoS ONE, 2010, 5, e9845.	2.5	18

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73	High variation in frequency of infection by endophytes in cultivars of meadow fescue in Finland. Grass and Forage Science, 2009, 64, 169-176.	2.9	17
74	Symbiotic interactions as drivers of trade-offs in plants: effects of fungal endophytes on tall fescue. Fungal Diversity, 2013, 60, 5-14.	12.3	17
75	Performance of Endophyte Infected Tall Fescue in Europe and North America. PLoS ONE, 2016, 11, e0157382.	2.5	17
76	Direct and indirect effects of the fungal endophyte EpichloÃ« uncinatum on litter decomposition of the host grass, Schedonorus pratensis. Plant Ecology, 2017, 218, 1107-1115.	1.6	16
77	Role of foliar fungal endophytes in litter decomposition among species and population origins. Fungal Ecology, 2016, 21, 50-56.	1.6	15
78	Evidence for resistance of mountain birch (Betula pubescens ssp. czerepanovii) to birch rust (Melampsoridium betulinum). Mycological Research, 1998, 102, 63-66.	2.5	14
79	Antioxidants in Festuca rubra L. seeds affected by the fungal symbiont EpichloÃ« festucae. Symbiosis, 2012, 58, 73-80.	2.3	14
80	A Glyphosate-Based Herbicide in Soil Differentially Affects Hormonal Homeostasis and Performance of Non-target Crop Plants. Frontiers in Plant Science, 2021, 12, 787958.	3.6	14
81	Does Glyphosate Affect the Human Microbiota?. Life, 2022, 12, 707.	2.4	14
82	Effects of systemic fungal endophytes on the performance of meadow fescue and tall fescue in mixtures with red clover. Grass and Forage Science, 2015, 70, 465-473.	2.9	13
83	Insect herbivory may cause changes in the visual properties of leaves and affect the camouflage of herbivores to avian predators. Behavioral Ecology and Sociobiology, 2017, 71, 1.	1.4	13
84	Glyphosate-based herbicide has soil-mediated effects on potato glycoalkaloids and oxidative status of a potato pest. Chemosphere, 2020, 258, 127254.	8.2	13
85	EpichloÃ« Endophyte-Promoted Seed Pathogen Increases Host Grass Resistance Against Insect Herbivory. Frontiers in Microbiology, 2021, 12, 786619.	3.5	13
86	No effects of EpichloÃ« endophyte infection on nitrogen cycling in meadow fescue (Schedonorus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.7	12
87	Geographic Variation in Festuca rubra L. Ploidy Levels and Systemic Fungal Endophyte Frequencies. PLoS ONE, 2016, 11, e0166264.	2.5	12
88	Efficient analysis of ploidy levels in plant evolutionary ecology. Caryologia, 2013, 66, 251-256.	0.3	11
89	Effects of a glyphosate-based herbicide on survival and oxidative status of a non-target herbivore, the Colorado potato beetle (Leptinotarsa decemlineata). Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2019, 215, 47-55.	2.6	11
90	Experimental testing of rust fungus-mediated herbivory resistance in Betula pendula. Forest Pathology, 2001, 31, 321-329.	1.1	10

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91	Endophytic fungi and silica content of different bamboo species in giant panda diet. Symbiosis, 2013, 61, 13-22.	2.3	10
92	Glyphosate residues alter the microbiota of a perennial weed with a minimal indirect impact on plant performance. Plant and Soil, 2022, 472, 161-174.	3.7	10
93	Genetic and Environmental Variation in Rust Frequency on Mature Mountain Birch Trees. Scandinavian Journal of Forest Research, 2000, 15, 510-522.	1.4	9
94	Fungal endophytes reduce regrowth and affect competitiveness of meadow fescue in early succession of pastures. Grass and Forage Science, 2010, 65, 287-295.	2.9	9
95	<i>EpichloÃ«</i> endophyte effects on leaf blotch pathogen (<i>Rhynchosporium</i> sp.) of tall fescue (<i>Schedonorus phoenix</i>) vary among grass origin and environmental conditions. Plant Ecology and Diversity, 2018, 11, 625-635.	2.4	9
96	Does cutting of mugwort stands affect airborne pollen concentrations?. Allergy: European Journal of Allergy and Clinical Immunology, 1992, 47, 388-390.	5.7	8
97	Local adaptation in natural European host grass populations with asymmetric symbiosis. PLoS ONE, 2019, 14, e0215510.	2.5	8
98	Postglacial colonization history reflects in the genetic structure of natural populations of Festuca rubra in Europe. Ecology and Evolution, 2019, 9, 3661-3674.	1.9	8
99	Variation and plasticity in EpichloÃ« alkaloid content of Festuca rubra across Europe. Fungal Ecology, 2020, 47, 100942.	1.6	7
100	Responses of Foliar Endophytes to Pollution. Forestry Sciences, 2011, , 175-188.	0.4	5
101	Phenotypic and genetic variation in natural populations of <i>Festuca rubra s.l.</i> in Europe. Plant Ecology and Diversity, 2019, 12, 441-456.	2.4	5
102	Variation in airborne urediniospore concentration ofMelampsoridium betulinum. Aerobiologia, 1995, 11, 259-264.	1.7	4
103	Comparison of some pollen concentrations in Finland and the Estonian SSR. Aerobiologia, 1989, 5, 94-103.	1.7	3
104	ENVIRONMENTAL CONDITIONS AND HOST GENOTYPE DIRECT GENETIC DIVERSITY OF VENTURIA DITRICHA, A FUNGAL ENDOPHYTE OF BIRCH TREES. Evolution; International Journal of Organic Evolution, 2002, 56, 1566.	2.3	3
105	Development and Characterization of Nuclear Microsatellite Markers in the Endophytic FungusEpichloÃ« festucae(Clavicipitaceae). Applications in Plant Sciences, 2014, 2, 1400093.	2.1	3
106	Development and Characterization of Chloroplast Microsatellite Markers in a Fine-Leaved Fescue,Festuca rubra(Poaceae). Applications in Plant Sciences, 2014, 2, 1400094.	2.1	3
107	Insect oviposition preference between <i>EpichloÃ«</i>â€symbiotic and <i>EpichloÃ«</i>â€free grasses does not necessarily reflect larval performance. Ecology and Evolution, 2020, 10, 7242-7249.	1.9	3
108	Quantification of the Potential Impact of Glyphosate-Based Products on Microbiomes. Journal of Visualized Experiments, 2022, , .	0.3	3

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109	Genetic Diversity of the Symbiotic Fungus EpichloÃ« festucae in Naturally Occurring Host Grass Populations. Frontiers in Microbiology, 2021, 12, 756991.	3.5	3
110	Glyphosate residues in soil can modify plant resistance to herbivores through changes in leaf quality.. Plant Biology, 0, , .	3.8	3
111	Systemic fungal endophytes and ploidy level in Festuca vivipara populations in North European Islands. Plant Systematics and Evolution, 2014, 300, 1683-1691.	0.9	2
112	Data on litter quality of host grass plants with and without fungal endophytes. Data in Brief, 2016, 7, 1469-1472.	1.0	1
113	Fungal endophyte mediated occurrence of seminiferous and pseudoviviparous panicles in Festuca rubra. Fungal Diversity, 2014, 66, 69-76.	12.3	0