

# Mari Moora

## List of Publications by Year in descending order

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Version: 2024-02-01

126  
papers

12,529  
citations

38742

50  
h-index

26613

107  
g-index

130  
all docs

130  
docs citations

130  
times ranked

12416  
citing authors

#	ARTICLE	IF	CITATIONS
1	Alien species in a warmer world: risks and opportunities. <i>Trends in Ecology and Evolution</i> , 2009, 24, 686-693.	8.7	1,031
2	The online database MaarjAM reveals global and ecosystemic distribution patterns in arbuscular mycorrhizal fungi (Glomeromycota). <i>New Phytologist</i> , 2010, 188, 223-241.	7.3	857
3	Ecological assembly rules in plant communities—approaches, patterns and prospects. <i>Biological Reviews</i> , 2012, 87, 111-127.	10.4	717
4	Rooting theories of plant community ecology in microbial interactions. <i>Trends in Ecology and Evolution</i> , 2010, 25, 468-478.	8.7	666
5	Global assessment of arbuscular mycorrhizal fungus diversity reveals very low endemism. <i>Science</i> , 2015, 349, 970-973.	12.6	644
6	Fifty thousand years of Arctic vegetation and megafaunal diet. <i>Nature</i> , 2014, 506, 47-51.	27.8	505
7	Large-scale parallel 454 sequencing reveals host ecological group specificity of arbuscular mycorrhizal fungi in a boreonemoral forest. <i>New Phytologist</i> , 2009, 184, 424-437.	7.3	481
8	Composition of root-colonizing arbuscular mycorrhizal fungal communities in different ecosystems around the globe. <i>Journal of Ecology</i> , 2006, 94, 778-790.	4.0	470
9	Worldwide evidence of a unimodal relationship between productivity and plant species richness. <i>Science</i> , 2015, 349, 302-305.	12.6	315
10	Global sampling of plant roots expands the described molecular diversity of arbuscular mycorrhizal fungi. <i>Mycorrhiza</i> , 2013, 23, 411-430.	2.8	280
11	IS SMALL-SCALE SPECIES RICHNESS LIMITED BY SEED AVAILABILITY OR MICROSITE AVAILABILITY?. <i>Ecology</i> , 2000, 81, 3274-3282.	3.2	276
12	Multiple stressors on biotic interactions: how climate change and alien species interact to affect pollination. <i>Biological Reviews</i> , 2010, 85, 777-795.	10.4	259
13	Species richness of arbuscular mycorrhizal fungi: associations with grassland plant richness and biomass. <i>New Phytologist</i> , 2014, 203, 233-244.	7.3	256
14	Local temperatures inferred from plant communities suggest strong spatial buffering of climate warming across Northern Europe. <i>Global Change Biology</i> , 2013, 19, 1470-1481.	9.5	200
15	Arbuscular mycorrhizal fungal communities in plant roots are not random assemblages. <i>FEMS Microbiology Ecology</i> , 2011, 78, 103-115.	2.7	183
16	DNA-based detection and identification of Glomeromycota: the virtual taxonomy of environmental sequences. <i>Botany</i> , 2014, 92, 135-147.	1.0	170
17	Species abundance distributions and richness estimations in fungal metagenomics - lessons learned from community ecology. <i>Molecular Ecology</i> , 2011, 20, 275-285.	3.9	158
18	Mycorrhizas in the Central European flora: relationships with plant life history traits and ecology. <i>Ecology</i> , 2013, 94, 1389-1399.	3.2	150

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19	Communities of Arbuscular Mycorrhizal Fungi Detected in Forest Soil Are Spatially Heterogeneous but Do Not Vary throughout the Growing Season. <i>PLoS ONE</i> , 2012, 7, e41938.	2.5	150
20	Divergent arbuscular mycorrhizal fungal communities colonize roots of <i>Pulsatilla</i> spp. in boreal Scots pine forest and grassland soils. <i>New Phytologist</i> , 2003, 160, 581-593.	7.3	149
21	High diversity of arbuscular mycorrhizal fungi in a boreal herb-rich coniferous forest. <i>New Phytologist</i> , 2008, 179, 867-876.	7.3	149
22	Forces that structure plant communities: quantifying the importance of the mycorrhizal symbiosis. <i>New Phytologist</i> , 2011, 189, 366-370.	7.3	149
23	Identifying and prioritising services in European terrestrial and freshwater ecosystems. <i>Biodiversity and Conservation</i> , 2010, 19, 2791-2821.	2.6	146
24	Anthropogenic land use shapes the composition and phylogenetic structure of soil arbuscular mycorrhizal fungal communities. <i>FEMS Microbiology Ecology</i> , 2014, 90, 609-621.	2.7	138
25	Alien plants associate with widespread generalist arbuscular mycorrhizal fungal taxa: evidence from a continental-scale study using massively parallel 454 sequencing. <i>Journal of Biogeography</i> , 2011, 38, 1305-1317.	3.0	137
26	Temperature and pH define the realised niche space of arbuscular mycorrhizal fungi. <i>New Phytologist</i> , 2021, 231, 763-776.	7.3	126
27	Effect of arbuscular mycorrhiza on inter- and intraspecific competition of two grassland species. <i>Oecologia</i> , 1996, 108, 79-84.	2.0	118
28	Host preference and network properties in biotrophic plant-fungal associations. <i>New Phytologist</i> , 2018, 217, 1230-1239.	7.3	107
29	Plant species richness belowground: higher richness and new patterns revealed by next-generation sequencing. <i>Molecular Ecology</i> , 2012, 21, 2004-2016.	3.9	105
30	Fine-root traits in the global spectrum of plant form and function. <i>Nature</i> , 2021, 597, 683-687.	27.8	102
31	Arbuscular mycorrhizal fungi communities from tropical Africa reveal strong ecological structure. <i>New Phytologist</i> , 2017, 213, 380-390.	7.3	96
32	Native arbuscular mycorrhizal fungal communities differentially influence the seedling performance of rare and common <i>Pulsatilla</i> species. <i>Functional Ecology</i> , 2004, 18, 554-562.	3.6	93
33	Root-colonizing and soil-borne communities of arbuscular mycorrhizal fungi in a temperate forest understorey. <i>Botany</i> , 2014, 92, 277-285.	1.0	86
34	Niche differentiation and expansion of plant species are associated with mycorrhizal symbiosis. <i>Journal of Ecology</i> , 2018, 106, 254-264.	4.0	86
35	Plant mycorrhizal status, but not type, shifts with latitude and elevation in Europe. <i>Global Ecology and Biogeography</i> , 2017, 26, 690-699.	5.8	84
36	Non-random association patterns in a plant-mycorrhizal fungal network reveal host-symbiont specificity. <i>Molecular Ecology</i> , 2019, 28, 365-378.	3.9	81

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37	Mycorrhizal status helps explain invasion success of alien plant species. <i>Ecology</i> , 2017, 98, 92-102.	3.2	77
38	Mycorrhizal traits and plant communities: perspectives for integration. <i>Journal of Vegetation Science</i> , 2014, 25, 1126-1132.	2.2	76
39	Hierarchical assembly rules in arbuscular mycorrhizal (AM) fungal communities. <i>Soil Biology and Biochemistry</i> , 2016, 97, 63-70.	8.8	73
40	Structure and function of the soil microbiome underlying N <sub>2</sub> O emissions from global wetlands. <i>Nature Communications</i> , 2022, 13, 1430.	12.8	72
41	Plant functional groups associate with distinct arbuscular mycorrhizal fungal communities. <i>New Phytologist</i> , 2020, 226, 1117-1128.	7.3	69
42	The role of plant mycorrhizal type and status in modulating the relationship between plant and arbuscular mycorrhizal fungal communities. <i>New Phytologist</i> , 2018, 220, 1236-1247.	7.3	68
43	Symbiont dynamics during ecosystem succession: co-occurring plant and arbuscular mycorrhizal fungal communities. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw097.	2.7	67
44	Historical biome distribution and recent human disturbance shape the diversity of arbuscular mycorrhizal fungi. <i>New Phytologist</i> , 2017, 216, 227-238.	7.3	66
45	Sequence variation in nuclear ribosomal small subunit, internal transcribed spacer and large subunit regions of <i>Rhizophagus irregularis</i> and <i>Gigaspora margarita</i> is high and isolate-dependent. <i>Molecular Ecology</i> , 2016, 25, 2816-2832.	3.9	64
46	Deciphering the role of specialist and generalist plant-microbial interactions as drivers of plant-soil feedback. <i>New Phytologist</i> , 2022, 234, 1929-1944.	7.3	63
47	Soil Nutrient Content Influences the Abundance of Soil Microbes but Not Plant Biomass at the Small-Scale. <i>PLoS ONE</i> , 2014, 9, e91998.	2.5	60
48	Arbuscular Mycorrhizal Fungal Networks Vary throughout the Growing Season and between Successional Stages. <i>PLoS ONE</i> , 2013, 8, e83241.	2.5	58
49	Increased sequencing depth does not increase captured diversity of arbuscular mycorrhizal fungi. <i>Mycorrhiza</i> , 2017, 27, 761-773.	2.8	58
50	Plant Coexistence in the Interactive Environment: Arbuscular Mycorrhiza Should Not Be out of Mind. <i>Oikos</i> , 1997, 78, 202.	2.7	57
51	Soil seed bank and vegetation in mixed coniferous forest stands with different disturbance regimes. <i>Forest Ecology and Management</i> , 2007, 250, 71-76.	3.2	56
52	Microbial island biogeography: isolation shapes the life history characteristics but not diversity of root-symbiotic fungal communities. <i>ISME Journal</i> , 2018, 12, 2211-2224.	9.8	55
53	Clonal mobility and its implications for spatio-temporal patterns of plant communities: what do we need to know next?. <i>Oikos</i> , 2010, 119, 802-806.	2.7	52
54	Differential effect of arbuscular mycorrhizal fungal communities from ecosystems along management gradient on the growth of forest understorey plant species. <i>Soil Biology and Biochemistry</i> , 2009, 41, 2141-2146.	8.8	49

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55	Spatial pattern and species richness of boreonemoral forest understorey and its determinants – A comparison of differently managed forests. <i>Forest Ecology and Management</i> , 2007, 250, 64-70.	3.2	47
56	Plant community mycorrhization in temperate forests and grasslands: relations with edaphic properties and plant diversity. <i>Journal of Vegetation Science</i> , 2016, 27, 89-99.	2.2	45
57	Impact of alien pines on local arbuscular mycorrhizal fungal communities – evidence from two continents. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw073.	2.7	41
58	Dispersal of arbuscular mycorrhizal fungi and plants during succession. <i>Acta Oecologica</i> , 2016, 77, 128-135.	1.1	41
59	Biodiversity and ecosystem functioning: It is time for dispersal experiments. <i>Journal of Vegetation Science</i> , 2006, 17, 543-547.	2.2	40
60	Disjunct populations of European vascular plant species keep the same climatic niches. <i>Global Ecology and Biogeography</i> , 2015, 24, 1401-1412.	5.8	39
61	Are invaders disturbance-limited? Conservation of mountain grasslands in Central Argentina. <i>Applied Vegetation Science</i> , 2002, 5, 195-202.	1.9	38
62	Monitoring of Biological Diversity: a Common-Ground Approach. <i>Conservation Biology</i> , 2007, 21, 313-317.	4.7	38
63	Plant species distributions along environmental gradients: do belowground interactions with fungi matter?. <i>Frontiers in Plant Science</i> , 2013, 4, 500.	3.6	38
64	Arbuscular mycorrhizal fungal communities in forest plant roots are simultaneously shaped by host characteristics and canopy-mediated light availability. <i>Plant and Soil</i> , 2017, 410, 259-271.	3.7	38
65	Missing nodes and links in mycorrhizal networks. <i>New Phytologist</i> , 2012, 194, 304-306.	7.3	37
66	Arbuscular Mycorrhizae and Plant-Plant Interactions. , 2010, , 79-98.		36
67	Title is missing!. <i>Plant Ecology</i> , 2001, 157, 205-213.	1.6	35
68	Temperate forest understorey species performance is altered by local arbuscular mycorrhizal fungal communities from stands of different successional stages. <i>Plant and Soil</i> , 2012, 356, 331-339.	3.7	32
69	Anthropogenic disturbance equalizes diversity levels in arbuscular mycorrhizal fungal communities. <i>Global Change Biology</i> , 2018, 24, 2649-2659.	9.5	32
70	Misdiagnosis and uncritical use of plant mycorrhizal data are not the only elephants in the room. <i>New Phytologist</i> , 2019, 224, 1415-1418.	7.3	32
71	Distribution patterns of arbuscular mycorrhizal and non-mycorrhizal plant species in Germany. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2016, 21, 78-88.	2.7	30
72	Vegetation Change in Boreonemoral Forest during Succession – Trends in Species Composition, Richness and Differentiation Diversity. <i>Annales Botanici Fennici</i> , 2009, 46, 326-335.	0.1	29

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73	Different wheat cultivars exhibit variable responses to inoculation with arbuscular mycorrhizal fungi from organic and conventional farms. <i>PLoS ONE</i> , 2020, 15, e0233878.	2.5	29
74	Understory plant diversity is related to higher variability of vegetative mobility of coexisting species. <i>Oecologia</i> , 2009, 159, 355-361.	2.0	28
75	Pollinator community responses to the spatial population structure of wild plants: A pan-European approach. <i>Basic and Applied Ecology</i> , 2012, 13, 489-499.	2.7	28
76	AM fungal communities inhabiting the roots of submerged aquatic plant <i>Lobelia dortmanna</i> are diverse and include a high proportion of novel taxa. <i>Mycorrhiza</i> , 2016, 26, 735-745.	2.8	28
77	Conceptual differences lead to divergent trait estimates in empirical and taxonomic approaches to plant mycorrhizal trait assignment. <i>Mycorrhiza</i> , 2019, 29, 1-11.	2.8	28
78	Can arbuscular mycorrhiza change the effect of root competition between conspecific plants of different ages?. <i>Canadian Journal of Botany</i> , 1998, 76, 613-619.	1.1	28
79	Positive association between understory species richness and a dominant shrub species ( <i>Corylus</i> ) in a temperate forest. <i>Journal of Ecology</i> , 2011, 99, 1078-1087.	1.0784314	27
80	Effects of arbuscular mycorrhiza on community composition and seedling recruitment in temperate forest understory. <i>Basic and Applied Ecology</i> , 2012, 13, 663-672.	2.7	27
81	User-friendly bioinformatics pipeline gDAT (graphical downstream analysis tool) for analysing rDNA sequences. <i>Molecular Ecology Resources</i> , 2021, 21, 1380-1392.	4.8	27
82	Interspecific competition and arbuscular mycorrhiza: Importance for the coexistence of two calcareous grassland species. <i>Folia Geobotanica Et Phytotaxonomica</i> , 1995, 30, 223-230.	0.4	26
83	Responses of a rare ( <i>Viola elatior</i> ) and a common ( <i>Viola mirabilis</i> ) congeneric species to different management conditions in grassland: is different light competition ability responsible for different abundances?. <i>Acta Oecologica</i> , 2003, 24, 169-174.	1.1	26
84	Species-Specific Effects of Woody Litter on Seedling Emergence and Growth of Herbaceous Plants. <i>PLoS ONE</i> , 2011, 6, e26505.	2.5	26
85	Florivores decrease pollinator visitation in a self-incompatible plant. <i>Basic and Applied Ecology</i> , 2010, 11, 669-675.	2.7	25
86	Ancient environmental DNA reveals shifts in dominant mutualisms during the late Quaternary. <i>Nature Communications</i> , 2018, 9, 139.	12.8	24
87	Do different competitive abilities of three fern species explain their different regional abundances?. <i>Journal of Vegetation Science</i> , 2004, 15, 351-356.	2.2	23
88	Inter- and intrasporal nuclear ribosomal gene sequence variation within one isolate of arbuscular mycorrhizal fungus, <i>Diversispora</i> sp.. <i>Symbiosis</i> , 2012, 58, 135-147.	2.3	22
89	Soybean cultivation supports a diverse arbuscular mycorrhizal fungal community in central Argentina. <i>Applied Soil Ecology</i> , 2018, 124, 289-297.	4.3	22
90	Asymmetric patterns of global diversity among plants and mycorrhizal fungi. <i>Journal of Vegetation Science</i> , 2020, 31, 355-366.	2.2	20

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91	Light availability and light demand of plants shape the arbuscular mycorrhizal fungal communities in their roots. <i>Ecology Letters</i> , 2021, 24, 426-437.	6.4	20
92	Reintroduction of a Rare Plant ( <i>Gladiolus imbricatus</i> ) Population to a River Floodplain—How Important is Meadow Management?. <i>Restoration Ecology</i> , 2008, 16, 382-385.	2.9	19
93	Arbuscular Mycorrhizal Fungal Communities in the Soils of Desert Habitats. <i>Microorganisms</i> , 2021, 9, 229.	3.6	19
94	Toward a function—first framework to make soil microbial ecology predictive. <i>Ecology</i> , 2022, 103, e03594.	3.2	19
95	Global soil microbiomes: A new frontline of biome—ecology research. <i>Global Ecology and Biogeography</i> , 2022, 31, 1120-1132.	5.8	19
96	Conservation of the Endemic Fern Lineage <i>Diellia</i> (Aspleniaceae) on the Hawaiian Islands: Can Population Structure Indicate Regional Dynamics and Endangering Factors?. <i>Folia Geobotanica</i> , 2008, 43, 3-18.	0.9	17
97	Response to Comment on “Global assessment of arbuscular mycorrhizal fungus diversity reveals very low endemism”. <i>Science</i> , 2016, 351, 826-826.	12.6	17
98	Arbuscular mycorrhizal fungal communities in tropical rain forest are resilient to slash-and-burn agriculture. <i>Journal of Tropical Ecology</i> , 2018, 34, 186-199.	1.1	17
99	Population stage structure of Hawaiian endemic fern taxa of <i>Diellia</i> (Aspleniaceae): implications for monitoring and regional dynamics. <i>Canadian Journal of Botany</i> , 2004, 82, 1438-1445.	1.1	16
100	Grassland diversity under changing productivity and the underlying mechanisms — results of a 10—yr experiment. <i>Journal of Vegetation Science</i> , 2012, 23, 919-930.	2.2	16
101	How do arbuscular mycorrhizal fungi travel?. <i>New Phytologist</i> , 2019, 222, 645-647.	7.3	16
102	Facultative mycorrhizal associations promote plant naturalization worldwide. <i>Ecosphere</i> , 2019, 10, e02937.	2.2	16
103	Not a melting pot: Plant species aggregate in their non—native range. <i>Global Ecology and Biogeography</i> , 2020, 29, 482-490.	5.8	16
104	Global macroecology of nitrogen—fixing plants. <i>Global Ecology and Biogeography</i> , 2021, 30, 514-526.	5.8	16
105	Optimal management of the rare <i>Gladiolus imbricatus</i> in Estonian coastal meadows indicated by its population structure. <i>Applied Vegetation Science</i> , 2007, 10, 161-168.	1.9	15
106	Can arbuscular mycorrhiza change the effect of root competition between conspecific plants of different ages?. <i>Canadian Journal of Botany</i> , 1998, 76, 613-619.	1.1	14
107	Contrasting effects of plant population size on florivory and pollination. <i>Basic and Applied Ecology</i> , 2009, 10, 737-744.	2.7	14
108	Woody encroachment in grassland elicits complex changes in the functional structure of above— and belowground biota. <i>Ecosphere</i> , 2021, 12, e03512.	2.2	14

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109	Global taxonomic and phylogenetic assembly of AM fungi. <i>Mycorrhiza</i> , 2022, 32, 135-144.	2.8	14
110	Distribution of plant mycorrhizal traits along an elevational gradient does not fully mirror the latitudinal gradient. <i>Mycorrhiza</i> , 2021, 31, 149-159.	2.8	13
111	Small-scale dynamics of plant communities in an experimentally polluted and fungicide-treated subarctic birch-pine forest. <i>Acta Oecologica</i> , 1999, 20, 29-37.	1.1	12
112	Competitive responses of the rare <i>Viola elatior</i> and the common <i>Viola mirabilis</i> . <i>Plant Ecology</i> , 2006, 184, 105-110.	1.6	12
113	Arbuscular mycorrhizal fungi associating with roots of <i>Alnus</i> and <i>Rubus</i> in Europe and the Middle East. <i>Fungal Ecology</i> , 2016, 24, 27-34.	1.6	12
114	Towards a consistent benchmark for plant mycorrhizal association databases. <i>New Phytologist</i> , 2021, 231, 913-916.	7.3	12
115	Mycorrhizal symbiosis alleviates plant water deficit within and across generations via phenotypic plasticity. <i>Journal of Ecology</i> , 2022, 110, 262-276.	4.0	11
116	Dominance, diversity, and niche breadth in arbuscular mycorrhizal fungal communities. <i>Ecology</i> , 2022, 103, e3761.	3.2	11
117	Establishment of a cross-European field site network in the ALARM project for assessing large-scale changes in biodiversity. <i>Environmental Monitoring and Assessment</i> , 2010, 164, 337-348.	2.7	10
118	Widely distributed native and alien plant species differ in arbuscular mycorrhizal associations and related functional trait interactions. <i>Ecography</i> , 2018, 41, 1583-1593.	4.5	9
119	DarkDivNet – A global research collaboration to explore the dark diversity of plant communities. <i>Journal of Vegetation Science</i> , 2019, 30, 1039-1043.	2.2	9
120	Arbuscular mycorrhizal fungal community composition determines the competitive response of two grassland forbs. <i>PLoS ONE</i> , 2019, 14, e0219527.	2.5	8
121	Secondary succession and summer herbivory in a subarctic grassland: community structure and diversity. <i>Ecography</i> , 1997, 20, 595-604.	4.5	7
122	Response to Comment on “Worldwide evidence of a unimodal relationship between productivity and plant species richness”. <i>Science</i> , 2016, 351, 457-457.	12.6	5
123	Biodiversity and ecosystem functioning: It is time for dispersal experiments. <i>Journal of Vegetation Science</i> , 2006, 17, 543.	2.2	5
124	Responses of plant community mycorrhization to anthropogenic influence depend on the habitat and mycorrhizal type. <i>Oikos</i> , 2019, 128, 1565-1575.	2.7	4
125	Plant diversity but not productivity is associated with community mycorrhization in temperate grasslands. <i>Journal of Vegetation Science</i> , 2022, 33, .	2.2	2
126	Arbuscular mycorrhizal fungi promote small-scale vegetation recovery in the forest understorey. <i>Oecologia</i> , 2021, 197, 685-697.	2.0	1