

Evolutionary history resolves global organization of ro

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Fungal diversity regulates plant-soil feedbacks in temperate grassland. <i>Science Advances</i> , 2018, 4, eaau4578.	4.7	161
3	Hyperspectral imaging: a novel approach for plant root phenotyping. <i>Plant Methods</i> , 2018, 14, 84.	1.9	53
4	Contrasting dynamics and trait controls in first-order root compared with leaf litter decomposition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10392-10397.	3.3	168
5	Getting to the Roots: A Developmental Genetic View of Root Anatomy and Function From Arabidopsis to Lycophytes. <i>Frontiers in Plant Science</i> , 2018, 9, 1410.	1.7	23
6	Greater variations of rhizosphere effects within mycorrhizal group than between mycorrhizal group in a temperate forest. <i>Soil Biology and Biochemistry</i> , 2018, 126, 237-246.	4.2	48
7	Changes in trait and phylogenetic diversity of leaves and absorptive roots from tropical to boreal forests. <i>Plant and Soil</i> , 2018, 432, 389-401.	1.8	14
8	Mechanical traits of fine roots as a function of topology and anatomy. <i>Annals of Botany</i> , 2018, 122, 1103-1116.	1.4	21
9	The importance of phyllosphere on plant functional ecology: a phyllo trait manifesto. <i>New Phytologist</i> , 2018, 219, 1145-1149.	3.5	36
10	Root diameter predicts the extramatrical hyphal exploration distance of the ectomycorrhizal fungal community. <i>Ecosphere</i> , 2018, 9, e02202.	1.0	15
11	Drought-induced changes in root biomass largely result from altered root morphological traits: Evidence from a synthesis of global field trials. <i>Plant, Cell and Environment</i> , 2018, 41, 2589-2599.	2.8	112
12	Intraspecific Fine-Root Trait-Environment Relationships across Interior Douglas-Fir Forests of Western Canada. <i>Plants</i> , 2019, 8, 199.	1.6	22
13	Is there coordination of leaf and fine root traits at local scales? A test in temperate forest swamps. <i>Ecology and Evolution</i> , 2019, 9, 8714-8723.	0.8	15
14	Fine-root traits of allelopathic rice at the seedling stage and their relationship with allelopathic potential. <i>PeerJ</i> , 2019, 7, e7006.	0.9	6
15	Mycorrhizal types differ in ecophysiology and alter plant nutrition and soil processes. <i>Biological Reviews</i> , 2019, 94, 1857-1880.	4.7	178
16	Characterizing fine-root traits by species phylogeny and microbial symbiosis in 11 co-existing woody species. <i>Oecologia</i> , 2019, 191, 983-993.	0.9	23
17	Small Roots of <i>Parashorea chinensis</i> Wang Hsie Decompose Slower than Twigs. <i>Forests</i> , 2019, 10, 301.	0.9	1
18	Physical and Functional Constraints on Viable Belowground Acquisition Strategies. <i>Frontiers in Plant Science</i> , 2019, 10, 1215.	1.7	115
19	Variation in the morphology of fine roots in <i>Cryptomeria japonica</i> determined by branch order-based classification. <i>Plant and Soil</i> , 2019, 444, 139-151.	1.8	16

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20	Divergence of functional traits at early stages of development in <i>Stipa tenacissima</i> populations distributed along an environmental gradient of the Mediterranean. <i>Plant Ecology</i> , 2019, 220, 995-1008.	0.7	5
21	Global plant-symbiont organization and emergence of biogeochemical cycles resolved by evolution-based trait modelling. <i>Nature Ecology and Evolution</i> , 2019, 3, 239-250.	3.4	79
22	Plant evolutionary history mainly explains the variance in biomass responses to climate warming at a global scale. <i>New Phytologist</i> , 2019, 222, 1338-1351.	3.5	20
23	Anatomical structures of fine roots of 91 vascular plant species from four groups in a temperate forest in Northeast China. <i>PLoS ONE</i> , 2019, 14, e0215126.	1.1	14
24	Three-Dimensional Time-Lapse Analysis Reveals Multiscale Relationships in Maize Root Systems with Contrasting Architectures. <i>Plant Cell</i> , 2019, 31, 1708-1722.	3.1	43
25	Does plant biomass partitioning reflect energetic investments in carbon and nutrient foraging?. <i>Functional Ecology</i> , 2019, 33, 1627-1637.	1.7	17
26	Nonlinearity of root trait relationships and the root economics spectrum. <i>Nature Communications</i> , 2019, 10, 2203.	5.8	158
27	Climatic controls of decomposition drive the global biogeography of forest-tree symbioses. <i>Nature</i> , 2019, 569, 404-408.	13.7	371
28	Consequences of clear-cutting and drought on fine root dynamics down to 17 cm in coppice-managed eucalypt plantations. <i>Forest Ecology and Management</i> , 2019, 445, 48-59.	1.4	19
29	Plant root-shoot biomass allocation over diverse biomes: A global synthesis. <i>Global Ecology and Conservation</i> , 2019, 18, e00606.	1.0	107
30	Satellite detection of cumulative and lagged effects of drought on autumn leaf senescence over the Northern Hemisphere. <i>Global Change Biology</i> , 2019, 25, 2174-2188.	4.2	126
31	Global patterns in fine root decomposition: climate, chemistry, mycorrhizal association and woodiness. <i>Ecology Letters</i> , 2019, 22, 946-953.	3.0	110
32	Relationships between plant traits, soil properties and carbon fluxes differ between monocultures and mixed communities in temperate grassland. <i>Journal of Ecology</i> , 2019, 107, 1704-1719.	1.9	56
33	Trait complementarity between fine roots of <i>Stipa purpurea</i> and their associated arbuscular mycorrhizal fungi along a precipitation gradient in Tibetan alpine steppe. <i>Journal of Mountain Science</i> , 2019, 16, 542-547.	0.8	13
34	Integrating nitrogen fixing structures into above- and belowground functional trait spectra in soy (<i>Glycine max</i>). <i>Plant and Soil</i> , 2019, 440, 53-69.	1.8	13
35	Tradeoffs among root morphology, exudation and mycorrhizal symbioses for phosphorus-acquisition strategies of 16 crop species. <i>New Phytologist</i> , 2019, 223, 882-895.	3.5	235
36	The effect of drought and season on root life span in temperate arbuscular mycorrhizal and ectomycorrhizal tree species. <i>Journal of Ecology</i> , 2019, 107, 2226-2239.	1.9	23
37	The Smaller the Leaf Is, the Faster the Leaf Water Loses in a Temperate Forest. <i>Frontiers in Plant Science</i> , 2019, 10, 58.	1.7	37

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39	Root trait-mediated belowground competition and community composition of a temperate steppe under nitrogen enrichment. <i>Plant and Soil</i> , 2019, 437, 341-354.	1.8	24
40	The Dynamics of Living and Dead Fine Roots of Forest Biomes Across the Northern Hemisphere. <i>Forests</i> , 2019, 10, 953.	0.9	13
41	Characterization of Cover Crop Rooting Types from Integration of Rhizobox Imaging and Root Atlas Information. <i>Plants</i> , 2019, 8, 514.	1.6	14
42	A Processesâ€­Based Dynamic Root Growth Model Integrated Into the Ecosystem Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4614-4628.	1.3	15
43	Communityâ€­level economics spectrum of fineâ€­roots driven by nutrient limitations in subalpine forests. <i>Journal of Ecology</i> , 2019, 107, 1238-1249.	1.9	30
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45	Linkage between C4 vegetation expansion and dune stabilization in the deserts of NE China during the late Quaternary. <i>Quaternary International</i> , 2019, 503, 10-23.	0.7	7
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48	Contrasting root foraging strategies of two subtropical coniferous forests under an increased diversity of understory species. <i>Plant and Soil</i> , 2019, 436, 427-438.	1.8	20
49	Variation in the functional traits of fine roots is linked to phylogenetics in the common tree species of Chinese subtropical forests. <i>Plant and Soil</i> , 2019, 436, 347-364.	1.8	24
50	Root traits of herbaceous crops: Preâ€­adaptation to cultivation or evolution under domestication?. <i>Functional Ecology</i> , 2019, 33, 273-285.	1.7	29
51	Distinct fineâ€­root responses to precipitation changes in herbaceous and woody plants: a metaâ€­analysis. <i>New Phytologist</i> , 2020, 225, 1491-1499.	3.5	70
52	Conifers depend on established roots during drought: results from a coupled model of carbon allocation and hydraulics. <i>New Phytologist</i> , 2020, 225, 679-692.	3.5	63
53	Linking reliance on deep soil water to resource economy strategies and abundance among coexisting understory shrub species in subtropical pine plantations. <i>New Phytologist</i> , 2020, 225, 222-233.	3.5	31
54	Plant economic strategies of grassland species control soil carbon dynamics through rhizodeposition. <i>Journal of Ecology</i> , 2020, 108, 528-545.	1.9	82
55	Root Endophytes of Coffee (<i>Coffea arabica</i>): Variation Across Climatic Gradients and Relationships with Functional Traits. <i>Phytobiomes Journal</i> , 2020, 4, 27-39.	1.4	41

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60	The role of fine-root mass, specific root length and life span in tree performance: A whole-tree exploration. <i>Functional Ecology</i> , 2020, 34, 575-585.	1.7	61
61	GRANAR, a Computational Tool to Better Understand the Functional Importance of Monocotyledon Root Anatomy. <i>Plant Physiology</i> , 2020, 182, 707-720.	2.3	23
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63	Variation and evolution of C:N ratio among different organs enable plants to adapt to N-limited environments. <i>Global Change Biology</i> , 2020, 26, 2534-2543.	4.2	124
64	Root exudation of mature beech forests across a nutrient availability gradient: the role of root morphology and fungal activity. <i>New Phytologist</i> , 2020, 226, 583-594.	3.5	84
65	Root traits mediate functional guilds of soil nematodes in an ex-arable field. <i>Soil Biology and Biochemistry</i> , 2020, 151, 108038.	4.2	25
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83	Towards Unraveling Macroecological Patterns in Rhizosphere Microbiomes. <i>Trends in Plant Science</i> , 2020, 25, 1017-1029.	4.3	42
84	Independent evolutionary changes in fineâ€root traits among main clades during the diversification of seed plants. <i>New Phytologist</i> , 2020, 228, 541-553.	3.5	24
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94	An Examination of the Foundations of Mega-Flora: Implications for Biomimetic Geotechnics. , 2020, , .		0
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98	Root growth and turnover in perennial forages as affected by management systems and soil depth. <i>Plant and Soil</i> , 2020, 451, 371-387.	1.8	22
99	Sex-specific responses of <i>Populus deltoides</i> to interaction of cadmium and salinity in root systems. <i>Ecotoxicology and Environmental Safety</i> , 2020, 195, 110437.	2.9	16
100	Influence of fine root traits on in situ exudation rates in four conifers from different mycorrhizal associations. <i>Tree Physiology</i> , 2020, 40, 1071-1079.	1.4	22
101	Trait integration and functional differentiation among co-existing plant species. <i>American Journal of Botany</i> , 2020, 107, 628-638.	0.8	20
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106	Tradeoffs among phosphorus-acquisition root traits of crop species for agroecological intensification. <i>Plant and Soil</i> , 2021, 461, 137-150.	1.8	32
107	Aridity drives coordinated trait shifts but not decreased trait variance across the geographic range of eight Australian trees. <i>New Phytologist</i> , 2021, 229, 1375-1387.	3.5	43
108	Global responses of fine root biomass and traits to plant species mixtures in terrestrial ecosystems. <i>Global Ecology and Biogeography</i> , 2021, 30, 289-304.	2.7	33
109	Root traits as drivers of plant and ecosystem functioning: current understanding, pitfalls and future research needs. <i>New Phytologist</i> , 2021, 232, 1123-1158.	3.5	277
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113	A framework to assess the carbon supplyâ€consumption balance in plant roots. <i>New Phytologist</i> , 2021, 229, 659-664.	3.5	35
114	Effects of root morphological traits on soil detachment for ten herbaceous species in the Loess Plateau. <i>Science of the Total Environment</i> , 2021, 754, 142304.	3.9	44
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116	Root traitâ€microbial relationships across tundra plant species. <i>New Phytologist</i> , 2021, 229, 1508-1520.	3.5	46
117	Plant functional trait variability and trait syndromes among wheat varieties: the footprint of artificial selection. <i>Journal of Experimental Botany</i> , 2021, 72, 1166-1180.	2.4	12
118	Linking root respiration to chemistry and morphology across species. <i>Global Change Biology</i> , 2021, 27, 190-201.	4.2	47
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120	Global patterns and climatic drivers of above- and belowground net primary productivity in grasslands. <i>Science China Life Sciences</i> , 2021, 64, 739-751.	2.3	23
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127	Plant intraspecific competition and growth stage alter carbon and nitrogen mineralization in the rhizosphere. <i>Plant, Cell and Environment</i> , 2021, 44, 1231-1242.	2.8	21
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130	Arbuscular mycorrhizal colonization outcompetes root hairs in maize under low phosphorus availability. <i>Annals of Botany</i> , 2021, 127, 155-166.	1.4	44
131	Global root traits (GRooT) database. <i>Global Ecology and Biogeography</i> , 2021, 30, 25-37.	2.7	90
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134	Tree-induced alterations to soil properties and rhizosphere-associated bacteria following 23 years in a common garden. <i>Plant and Soil</i> , 2021, 461, 591-602.	1.8	10
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138	The global significance of biodiversity science in China: an overview. <i>National Science Review</i> , 2021, 8, nwab032.	4.6	68
139	Shade affects fine-root morphology in range-encroaching eastern redcedars (<i>Juniperus virginiana</i>) more than competition, soil fertility and pH. <i>Pedobiologia</i> , 2021, 84, 150708.	0.5	4
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145	Lower seed P content does not affect early growth in chickpea, provided starter P fertiliser is supplied. <i>Plant and Soil</i> , 2021, 463, 113-124.	1.8	4
146	Root functional traits explain root exudation rate and composition across a range of grassland species. <i>Journal of Ecology</i> , 2022, 110, 21-33.	1.9	79
147	Contrasting rhizosphere soil nutrient economy of plants associated with arbuscular mycorrhizal and ectomycorrhizal fungi in karst forests. <i>Plant and Soil</i> , 2022, 470, 81-93.	1.8	15

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149	Root Biomass Distribution of <i>Populus sibirica</i> and <i>Ulmus pumila</i> Afforestation Stands Is Affected by Watering Regimes and Fertilization in the Mongolian Semi-arid Steppe. <i>Frontiers in Plant Science</i> , 2021, 12, 638828.	1.7	12
150	The hierarchy of root branching order determines bacterial composition, microbial carrying capacity and microbial filtering. <i>Communications Biology</i> , 2021, 4, 483.	2.0	30
152	Nitrogen deposition and increased precipitation interact to affect fine root production and biomass in a temperate forest: Implications for carbon cycling. <i>Science of the Total Environment</i> , 2021, 765, 144497.	3.9	48
153	Neighbors, Drought, and Nitrogen Application Affect the Root Morphological Plasticity of <i>Dalbergia odorifera</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 650616.	1.7	1
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156	Woody encroachment of an East African savannah ecosystem alters its arbuscular mycorrhizal fungal communities. <i>Plant and Soil</i> , 2021, 464, 303-320.	1.8	5
158	Fine root functional trait responses to experimental warming: a global meta-analysis. <i>New Phytologist</i> , 2021, 230, 1856-1867.	3.5	59
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241	The Right-Skewed Distribution of Fine-Root Size in Three Temperate Forests in Northeastern China. <i>Frontiers in Plant Science</i> , 2021, 12, 772463.	1.7	2
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260	A framework for fine-root trait syndromes: syndrome coexistence may support phosphorus partitioning in tropical forests. <i>Oikos</i> , 2023, 2023, .	1.2	7
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268	Differential Variation in Non-structural Carbohydrates in Root Branch Orders of <i>Fraxinus mandshurica</i> Rupr. Seedlings Across Different Drought Intensities and Soil Substrates. <i>Frontiers in Plant Science</i> , 2021, 12, 692715.	1.7	5
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291	The Hierarchy of Protoxylem Groupings in Primary Root and Their Plasticity to Nitrogen Addition in Three Tree Species. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	2
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310	Differential influence of cortex and stele components on root tip diameter in different types of tropical climbing plants. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	0
311	Anatomical structure interpretation of the effect of soil environment on fine root function. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	4
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317	Propagation Methods Decide Root Architecture of Chinese Fir: Evidence from Tissue Culturing, Rooted Cutting and Seed Germination. <i>Plants</i> , 2022, 11, 2472.	1.6	4
318	Covariations and trade-offs of phosphorus (P) acquisition strategies in dioecious <i>Populus euphratica</i> as affected by soil water availability. <i>Functional Ecology</i> , 2022, 36, 3188-3199.	1.7	12
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