

A global analysis of root distributions for terrestrial bio

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Quantitative Effects of Grazing on Vegetation and Soils Over a Global Range of Environments. Ecological Monographs, 1993, 63, 327-366.	2.4	1,559
3	A process-based model to derive methane emissions from natural wetlands. Geophysical Research Letters, 1996, 23, 3731-3734.	1.5	123
4	Maximum rooting depth of vegetation types at the global scale. Oecologia, 1996, 108, 583-595.	0.9	1,505
5	Rooting depth, water availability, and vegetation cover along an aridity gradient in Patagonia. Oecologia, 1996, 108, 503-511.	0.9	282
6	Integrating Resource Heterogeneity and Plant Plasticity: Modelling Nitrate and Phosphate Uptake in a Patchy Soil Environment. Journal of Ecology, 1996, 84, 891.	1.9	142
7	Root system development of single and mixed plant functional type communities following harvest in a pine-hardwood forest. Canadian Journal of Forest Research, 1997, 27, 1753-1764.	0.8	10
8	A global budget for fine root biomass, surface area, and nutrient contents. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 7362-7366.	3.3	1,189
9	TREE-GRASS INTERACTIONS IN SAVANNAS. Annual Review of Ecology, Evolution, and Systematics, 1997, 28, 517-544.	6.7	2,023
10	PLANT COMPETITION UNDERGROUND. Annual Review of Ecology, Evolution, and Systematics, 1997, 28, 545-570.	6.7	889
11	Comparison of root distributions of species in North American grasslands using GIS. Journal of Vegetation Science, 1997, 8, 587-596.	1.1	54
12	Index to American Botanical Literature. Brittonia, 1997, 49, 280-301.	0.8	0
13	Index to American Botanical Literature. Brittonia, 1997, 49, 406-430.	0.8	0
14	Title is missing!. Plant and Soil, 1998, 200, 71-89.	1.8	354
15	Hydraulic lift: consequences of water efflux from the roots of plants. Oecologia, 1998, 113, 151-161.	0.9	836
16	Study design and interpretation of mammalian carnivore density estimates. Oecologia, 1998, 113, 474-491.	0.9	43
17	Ecosystem water fluxes for two grasslands in elevated CO ₂ : a modeling analysis. Oecologia, 1998, 113, 537-546.	0.9	38
18	Downward flux of water through roots (i.e. inverse hydraulic lift) in dry Kalahari sands. Oecologia, 1998, 115, 460-462.	0.9	142
19	A biophysical process-based estimate of global land surface evaporation using satellite and ancillary data I. Model description and comparison with observations. Journal of Hydrology, 1998, 205, 164-185.	2.3	115

#	ARTICLE	IF	CITATIONS
20	Potential evaporation functions compared on US watersheds: Possible implications for global-scale water balance and terrestrial ecosystem modeling. <i>Journal of Hydrology</i> , 1998, 207, 147-169.	2.3	384
21	Climate, organic matter and clay content relationships in the Pampa and Chaco soils, Argentina. <i>Geoderma</i> , 1998, 83, 127-141.	2.3	226
22	Carbon and nitrogen isotope discrimination and nitrogen nutrition of trees along a rainfall gradient in northern Australia. <i>Functional Plant Biology</i> , 1998, 25, 413.	1.1	202
23	Soil-induced variability in root systems of creosotebush (<i>Larrea tridentata</i>) and tarbush (<i>Flourensia</i>) Tj ETQq1 1 0.784314 rgBT/Overlo	1.2	55
24	Dry season water use patterns under <i>Guiera senegalensis</i> L. shrubs in a tropical savanna. <i>Journal of Arid Environments</i> , 1998, 40, 53-67.	1.2	31
25	The role of root distribution for climate simulation over land. <i>Geophysical Research Letters</i> , 1998, 25, 4533-4536.	1.5	69
26	Root Demographics and Their Efficiencies in Sustainable Agriculture, Grasslands and Forest Ecosystems. , 1998, , .		6
27	Net ecosystem productivity, net primary productivity and ecosystem carbon sequestration in a <i>Pinus radiata</i> plantation subject to soil water deficit. <i>Tree Physiology</i> , 1998, 18, 785-793.	1.4	104
28	WATER BALANCE DELINEATES THE SOIL LAYER IN WHICH MOISTURE AFFECTS CANOPY CONDUCTANCE. , 1998, 8, 990-1002.		131
29	Investigating the Sensitivity of a Land Surface Scheme's Simulation of Soil Wetness and Evaporation to Spatial and Temporal Leaf Area Index Variability within the Global Soil Wetness Project. <i>Journal of the Meteorological Society of Japan</i> , 1999, 77, 281-290.	0.7	16
30	Success of C4 Photosynthesis in the Field: Lessons from Communities Dominated by C4 Plants. , 1999, , 251-283.		42
31	Ecosystem rooting depth determined with caves and DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 11387-11392.	3.3	241
32	How rain forests influence the atmosphere. <i>Botanical Journal of Scotland</i> , 1999, 51, 69-85.	0.3	0
33	Growth, loss, and vertical distribution of <i>Pinus radiata</i> fine roots growing at ambient and elevated CO ₂ concentration. <i>Global Change Biology</i> , 1999, 5, 107-121.	4.2	51
34	Comparing global models of terrestrial net primary productivity (NPP): the importance of water availability. <i>Global Change Biology</i> , 1999, 5, 46-55.	4.2	127
35	Toward an allocation scheme for global terrestrial carbon models. <i>Global Change Biology</i> , 1999, 5, 755-770.	4.2	307
36	Effects of Restoration Thinning on Presettlement <i>Pinus ponderosa</i> in Northern Arizona. <i>Restoration Ecology</i> , 1999, 7, 172-182.	1.4	90
37	Root distributions in a <i>Grevillea robusta</i> -maize agroforestry system in semi-arid Kenya. <i>Plant and Soil</i> , 1999, 211, 191-205.	1.8	35

#	ARTICLE	IF	CITATIONS
38	Title is missing!. Plant and Soil, 1999, 214, 27-38.	1.8	70
39	Title is missing!. Landscape Ecology, 1999, 14, 465-478.	1.9	194
40	Root production and turnover in an upland grassland subjected to artificial soil warming respond to radiation flux and nutrients, not temperature. Oecologia, 1999, 120, 575-581.	0.9	118
41	Ecosystem consequences of plant life form changes at three sites in the semiarid United States. Oecologia, 1999, 121, 551-563.	0.9	104
42	20th Century Carbon Budget of Forest Soils in the Alps. Ecosystems, 1999, 2, 320-337.	1.6	56
43	Stable isotopes in ecosystem science: structure, function and dynamics of a subtropical savanna. , 1999, 13, 1263-1277.		126
45	MODEL ANALYSIS OF THE EFFECTS OF HISTORIC CO ₂ LEVELS AND NITROGEN INPUTS ON VEGETATION SUCCESSION. , 1999, 9, 920-935.		16
46	Evaluating the performance of a land Surface / ecosystem model with biophysical measurements from contrasting environments. Journal of Geophysical Research, 1999, 104, 16895-16909.	3.3	73
47	Assessing rooting depths of an austrian pine stand by inverse modeling soil water content maps. Water Resources Research, 1999, 35, 3041-3048.	1.7	40
48	Interactions Underground. BioScience, 1999, 49, 109.	2.2	183
49	Model Analysis of the Effects of Historic CO ₂ Levels and Nitrogen Inputs on Vegetation Succession. , 1999, 9, 920.		1
50	Estimating Watershed Evapotranspiration with PASS. Part II: Moisture Budgets during Drydown Periods. Journal of Hydrometeorology, 2000, 1, 462-473.	0.7	15
51	Modeling the Biosphereâ€‘Atmosphere System: The Impact of the Subgrid Variability in Rainfall Interception. Journal of Climate, 2000, 13, 2887-2899.	1.2	28
52	Modeling Soil Moisture and Surface Flux Variability with an Untuned Land Surface Scheme: A Case Study from the Southern Great Plains 1997 Hydrology Experiment. Journal of Hydrometeorology, 2000, 1, 154-169.	0.7	33
53	Dynamic Simulation of Tree-Grass Interactions for Global Change Studies. , 2000, 10, 449.		7
54	Global patterns of root turnover for terrestrial ecosystems. New Phytologist, 2000, 147, 13-31.	3.5	976
55	Elevated CO ₂ and conifer roots: effects on growth, life span and turnover. New Phytologist, 2000, 147, 87-103.	3.5	137
56	Dynamics of root systems in native grasslands: effects of elevated atmospheric CO ₂ . New Phytologist, 2000, 147, 73-85.	3.5	121

#	ARTICLE	IF	CITATIONS
57	The representation of root processes in models addressing the responses of vegetation to global change. <i>New Phytologist</i> , 2000, 147, 223-232.	3.5	33
58	The uncertainty in simulations by a Global Biome Model (BIOME3) to alternative parameter values. <i>Global Change Biology</i> , 2000, 6, 483-495.	4.2	41
59	The species richness-biomass relationship in herbaceous plant communities: what difference does the incorporation of root biomass data make?. <i>Oikos</i> , 2000, 91, 109-114.	1.2	32
60	Competitive effects of shrubs and grasses in prairie. <i>Oikos</i> , 2000, 91, 385-395.	1.2	85
61	The dynamic role of root-water uptake in coupling potential to actual transpiration. <i>Advances in Water Resources</i> , 2000, 23, 427-439.	1.7	171
62	Root distribution, standing crop biomass and belowground productivity in a semidesert in MÃ©xico. <i>Plant Ecology</i> , 2000, 146, 131-136.	0.7	14
63	Title is missing!. <i>Plant Ecology</i> , 2000, 147, 95-103.	0.7	19
64	Title is missing!. <i>Russian Journal of Ecology</i> , 2000, 31, 371-378.	0.3	26
65	Commentary: Carbon Metabolism of the Terrestrial Biosphere: A Multitechnique Approach for Improved Understanding. <i>Ecosystems</i> , 2000, 3, 115-130.	1.6	225
66	Effects of Soil Texture on Belowground Carbon and Nutrient Storage in a Lowland Amazonian Forest Ecosystem. <i>Ecosystems</i> , 2000, 3, 193-209.	1.6	318
67	BELOWGROUND CONSEQUENCES OF VEGETATION CHANGE AND THEIR TREATMENT IN MODELS. , 2000, 10, 470-483.		295
68	Intra- and Interspecific Variation for Summer Precipitation Use in Pinyon-Juniper Woodlands. <i>Ecological Monographs</i> , 2000, 70, 517.	2.4	16
69	Root Methods. , 2000, , .		127
70	DYNAMIC SIMULATION OF TREE–GRASS INTERACTIONS FOR GLOBAL CHANGE STUDIES. , 2000, 10, 449-469.		59
71	INTRA- AND INTERSPECIFIC VARIATION FOR SUMMER PRECIPITATION USE IN PINYON–JUNIPER WOODLANDS. <i>Ecological Monographs</i> , 2000, 70, 517-537.	2.4	219
72	Modelling stomatal ozone flux across Europe. <i>Environmental Pollution</i> , 2000, 109, 403-413.	3.7	481
73	Root water uptake and transport: using physiological processes in global predictions. <i>Trends in Plant Science</i> , 2000, 5, 482-488.	4.3	496
74	Testing the performance of a dynamic global ecosystem model: Water balance, carbon balance, and vegetation structure. <i>Global Biogeochemical Cycles</i> , 2000, 14, 795-825.	1.9	608

#	ARTICLE	IF	CITATIONS
75	NUTRIENT CONCENTRATIONS IN FINE ROOTS. <i>Ecology</i> , 2000, 81, 275-280.	1.5	279
76	Calcium Depletion in a Southeastern United States Forest Ecosystem. <i>Soil Science Society of America Journal</i> , 2000, 64, 1845-1858.	1.2	107
77	IMPACTS OF ROOT COMPETITION IN FORESTS AND WOODLANDS: A THEORETICAL FRAMEWORK AND REVIEW OF EXPERIMENTS. <i>Ecological Monographs</i> , 2000, 70, 171-207.	2.4	548
78	Effects of Nitrogen Fertilization in Leafy Spurge Root Architecture. <i>Journal of Range Management</i> , 2000, 53, 228.	0.3	5
79	THE VERTICAL DISTRIBUTION OF SOIL ORGANIC CARBON AND ITS RELATION TO CLIMATE AND VEGETATION. , 2000, 10, 423-436.		3,759
80	Validation of the Integrated Biosphere Simulator over Canadian deciduous and coniferous boreal forest stands. <i>Journal of Geophysical Research</i> , 2001, 106, 14339-14355.	3.3	44
81	Modeling modern methane emissions from natural wetlands: 1. Model description and results. <i>Journal of Geophysical Research</i> , 2001, 106, 34189-34206.	3.3	221
82	Acidification in Developing Countries: Ecosystem Sensitivity and the Critical Load Approach on a Global Scale. <i>Ambio</i> , 2001, 30, 20-28.	2.8	107
83	Modeling Root Water Uptake in Hydrological and Climate Models. <i>Bulletin of the American Meteorological Society</i> , 2001, 82, 2797-2809.	1.7	330
84	Global Biodiversity in a Changing Environment. <i>Ecological Studies</i> , 2001, , .	0.4	40
85	Root systems of some Chihuahuan Desert plants. <i>Journal of Arid Environments</i> , 2001, 49, 221-263.	1.2	174
86	Modeling methane fluxes in wetlands with gas-transporting plants: 3. Plot scale. <i>Journal of Geophysical Research</i> , 2001, 106, 3541-3558.	3.3	35
87	Climate impacts of European-scale anthropogenic vegetation changes: A sensitivity study using a regional climate model. <i>Journal of Geophysical Research</i> , 2001, 106, 7817-7835.	3.3	72
88	Estimation of biomass in a neotropical forest of French Guiana: spatial and temporal variability. <i>Journal of Tropical Ecology</i> , 2001, 17, 79-96.	0.5	262
89	Slash-and-burn effects on fine root biomass and productivity in a tropical dry forest ecosystem in MÃ©xico. <i>Forest Ecology and Management</i> , 2001, 148, 41-50.	1.4	48
90	A three-dimensional spatial model for plant competition in an heterogeneous soil environment. <i>Ecological Modelling</i> , 2001, 142, 189-225.	1.2	46
91	Relationships between root characteristics and seed size in two contrasting floras. <i>Acta Oecologica</i> , 2001, 22, 77-85.	0.5	22
92	Productivity of Tropical Savannas and Grasslands. , 2001, , 363-400.		36

#	ARTICLE	IF	CITATIONS
93	Feedback control of the rate of peat formation. Proceedings of the Royal Society B: Biological Sciences, 2001, 268, 1315-1321.	1.2	262
94	From Plant to Soil. , 2001, , 83-99.		8
95	Phenology, Growth, and Allocation in Global Terrestrial Productivity. , 2001, , 61-82.		24
96	Productivity of Tropical Rain Forests. , 2001, , 401-426.		45
97	FIRE AND GRAZING REGULATE BELOWGROUND PROCESSES IN TALLGRASS PRAIRIE. Ecology, 2001, 82, 3377-3389.	1.5	284
98	PREDICTIONS OF AVAILABLE NITROGEN CONTENT IN SOIL PROFILE DEPTH USING AVAILABLE NITROGEN CONCENTRATION IN SURFACE LAYER. Communications in Soil Science and Plant Analysis, 2001, 32, 759-769.	0.6	20
100	Trees in Grasslands. , 2001, , 115-137.		210
101	Belowground biomass and nutrient content in a 47-year-old Douglas-fir plantation. Annals of Forest Science, 2001, 58, 423-430.	0.8	26
102	Leaf water relations for 23 angiosperm species from steppe grasslands and associated habitats in Hungary. Community Ecology, 2001, 1, 123-131.	0.5	6
103	WATER AND TREEâ€“UNDERSTORY INTERACTIONS: A NATURAL EXPERIMENT IN A SAVANNA WITH OAK WILT. Ecology, 2001, 82, 33-49.	1.5	17
104	Carbon Isotope Discrimination of Terrestrial Ecosystems â€” How Well Do Observed and Modeled Results Match?. , 2001, , 253-266.		11
105	Towards understanding tree root profiles: simulating hydrologically optimal strategies for root distribution. Hydrology and Earth System Sciences, 2001, 5, 629-644.	1.9	55
106	Quantifying Root Reinforcement of Streambanks for Some Common Riparian Species: Are Willows As Good As it Gets?. , 2001, , 1.		1
107	Belowground biomass seasonal variation in two Neotropical savannahs (Brazilian Cerrados) with different fire histories. Annals of Forest Science, 2001, 58, 713-721.	0.8	21
108	Water and Tree-Understory Interactions: A Natural Experiment in a Savanna with Oak Wilt. Ecology, 2001, 82, 33.	1.5	57
109	Water use trade-offs and optimal adaptations to pulse-driven arid ecosystems. Journal of Ecology, 2001, 89, 464-480.	1.9	369
110	Coupling a grassland ecosystem model with Landsat imagery for a 10-year simulation of carbon and water budgets. Remote Sensing of Environment, 2001, 78, 131-149.	4.6	76
111	Forest Soils. , 0, , 157-187.		5

#	ARTICLE	IF	CITATIONS
112	Title is missing!. Plant and Soil, 2001, 233, 109-125.	1.8	29
113	The distribution of soil nutrients with depth: Global patterns and the imprint of plants. Biogeochemistry, 2001, 53, 51-77.	1.7	850
114	Below-Ground Processes in Gap Models for Simulating Forest Response to Global Change. Climatic Change, 2001, 51, 449-473.	1.7	31
115	Plants in water-controlled ecosystems: active role in hydrologic processes and response to water stress. Advances in Water Resources, 2001, 24, 707-723.	1.7	742
116	BIOGEOCHEMICAL CHANGES ACCOMPANYING WOODY PLANT ENCROACHMENT IN A SUBTROPICAL SAVANNA. Ecology, 2001, 82, 1999-2011.	1.5	273
117	Global Vegetation Root Distribution for Land Modeling. Journal of Hydrometeorology, 2001, 2, 525-530.	0.7	191
118	Fire and Vegetation Effects on Productivity and Nitrogen Cycling across a Forest-Grassland Continuum. Ecology, 2001, 82, 1703.	1.5	11
119	FIRE AND VEGETATION EFFECTS ON PRODUCTIVITY AND NITROGEN CYCLING ACROSS A FORESTâ€“GRASSLAND CONTINUUM. Ecology, 2001, 82, 1703-1719.	1.5	206
120	A gender difference in the association between <i>APOE</i> genotype and age-related cognitive decline. Neurology, 2001, 57, 89-95.	1.5	156
121	Coupling of the Common Land Model to the NCAR Community Climate Model. Journal of Climate, 2002, 15, 1832-1854.	1.2	224
122	A Long-Term Hydrologically Based Dataset of Land Surface Fluxes and States for the Conterminous United States*. Journal of Climate, 2002, 15, 3237-3251.	1.2	1,186
123	Altered Rainfall Patterns, Gas Exchange, and Growth in Grasses and Forbs. International Journal of Plant Sciences, 2002, 163, 549-557.	0.6	113
124	The Response of Soil Moisture to Long-Term Variability of Precipitation. Journal of Hydrometeorology, 2002, 3, 604-613.	0.7	127
125	Global Modeling of Land Water and Energy Balances. Part II: Land-Characteristic Contributions to Spatial Variability. Journal of Hydrometeorology, 2002, 3, 301-310.	0.7	40
126	Soil Water Uptake and Water Transport Through Root Systems. , 2002, , 663-681.		5
127	Global Modeling of Land Water and Energy Balances. Part I: The Land Dynamics (LaD) Model. Journal of Hydrometeorology, 2002, 3, 283-299.	0.7	314
128	Sensitivity tests of the integrated biosphere simulator to soil and vegetation characteristics in a pacific coastal coniferous forest. Atmosphere - Ocean, 2002, 40, 313-332.	0.6	28
129	CONSUMER CONTROL OF GRASSLAND PLANT PRODUCTION. Ecology, 2002, 83, 602-606.	1.5	173

#	ARTICLE	IF	CITATIONS
130	Rainfall Variability, Carbon Cycling, and Plant Species Diversity in a Mesic Grassland. <i>Science</i> , 2002, 298, 2202-2205.	6.0	942
131	Seasonal soil water availability influences snakeweed root dynamics. <i>Journal of Arid Environments</i> , 2002, 51, 255-264.	1.2	41
132	On a better understanding of hydraulic lift: A numerical study. <i>Water Resources Research</i> , 2002, 38, 1-1-1-10.	1.7	40
133	Steady state turnover time of carbon in the Australian terrestrial biosphere. <i>Global Biogeochemical Cycles</i> , 2002, 16, 55-1-55-21.	1.9	105
134	Effect of climate on interannual variability of terrestrial CO ₂ fluxes. <i>Global Biogeochemical Cycles</i> , 2002, 16, 49-1-49-12.	1.9	51
135	Seasonal and interannual variability of the mineral dust cycle under present and glacial climate conditions. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 2-1.	3.3	138
136	THE GLOBAL BIOGEOGRAPHY OF ROOTS. <i>Ecological Monographs</i> , 2002, 72, 311-328.	2.4	816
137	INTERSPECIFIC COMPETITION AND RESOURCE PULSE UTILIZATION IN A COLD DESERT COMMUNITY. <i>Ecology</i> , 2002, 83, 2602-2616.	1.5	81
138	Photosynthetic responses to water deficit in six Mediterranean sclerophyll species: possible factors explaining the declining distribution of <i>Rhamnus ludovici-salvatoris</i> , an endemic Balearic species. <i>Tree Physiology</i> , 2002, 22, 687-697.	1.4	127
139	Index System and Method for Soil Productivity Evaluation on the Hillsides in the Loess Plateau. <i>Arid Land Research and Management</i> , 2002, 16, 335-348.	0.6	1
140	The macromolecular organic composition of plant and microbial residues as inputs to soil organic matter. <i>Soil Biology and Biochemistry</i> , 2002, 34, 139-162.	4.2	1,488
141	Tree species diversity and soil patchiness in a temperate broad-leaved forest with limited rooting space. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2002, 197, 118-125.	0.6	56
142	Root distribution of Norway spruce in monospecific and mixed stands on different soils. <i>Forest Ecology and Management</i> , 2002, 159, 37-47.	1.4	191
143	Multitrophic interactions in decomposer food-webs. , 2002, , 223-264.		96
144	Comparative ecosystem-atmosphere exchange of energy and mass in a European Russian and a central Siberian bog II. Interseasonal and interannual variability of CO ₂ fluxes. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2002, 54, 514.	0.8	18
145	Quantifying the mechanical and hydrologic effects of riparian vegetation on streambank stability. <i>Earth Surface Processes and Landforms</i> , 2002, 27, 527-546.	1.2	638
146	Influence of groundwater depth on the seasonal sources of water accessed by <i>Banksia</i> tree species on a shallow, sandy coastal aquifer. <i>Oecologia</i> , 2002, 131, 8-19.	0.9	231
147	Comparative ecosystem-atmosphere exchange of energy and mass in a European Russian and a central Siberian bog II. Interseasonal and interannual variability of CO ₂ fluxes. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2002, 54, 514-530.	0.8	79

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148	Plant biomass and production and CO ₂ exchange in an ombrotrophic bog. <i>Journal of Ecology</i> , 2002, 90, 25-36.	1.9	315
149	Functional traits, productivity and effects on nitrogen cycling of 33 grassland species. <i>Functional Ecology</i> , 2002, 16, 563-574.	1.7	331
150	Solar UV-B radiation affects below-ground parameters in a fen ecosystem in Tierra del Fuego, Argentina: implications of stratospheric ozone depletion. <i>Global Change Biology</i> , 2002, 8, 867-871.	4.2	51
151	Rooting depths, lateral root spreads and below-ground/above-ground allometries of plants in water-limited ecosystems. <i>Journal of Ecology</i> , 2002, 90, 480-494.	1.9	1,081
152	A biogeochemistry-based dynamic vegetation model and its application along a moisture gradient in the continental United States. <i>Journal of Vegetation Science</i> , 2002, 13, 369-382.	1.1	21
153	Title is missing!. <i>Plant Ecology</i> , 2003, 167, 269-282.	0.7	28
154	Root distribution of a Mediterranean shrubland in Portugal. <i>Plant and Soil</i> , 2003, 255, 529-540.	1.8	47
155	Rooting strategy of naturally regenerated beech in Silver birch and Scots pine woodlands. <i>Plant and Soil</i> , 2003, 255, 265-279.	1.8	54
156	Subsoil root activity in tree-based cropping systems. <i>Plant and Soil</i> , 2003, 255, 319-331.	1.8	91
157	Soil C and N responses to woody plant expansion in a mesic grassland. <i>Plant and Soil</i> , 2003, 257, 183-192.	1.8	54
158	The eco-hydrology of partly cleared, native ecosystems in southern Australia: a review. <i>Plant and Soil</i> , 2003, 257, 357-369.	1.8	40
159	Title is missing!. <i>Plant Ecology</i> , 2003, 165, 85-100.	0.7	120
160	Title is missing!. <i>Plant Ecology</i> , 2003, 165, 117-144.	0.7	65
161	Biomass, Carbon, and Nitrogen Pools in Mexican Tropical Dry Forest Landscapes. <i>Ecosystems</i> , 2003, 6, 609-629.	1.6	174
162	Covariation in leaf and root traits for native and non-native grasses along an altitudinal gradient in New Zealand. <i>Oecologia</i> , 2003, 134, 471-478.	0.9	133
163	Productivity responses to altered rainfall patterns in a C ₄ -dominated grassland. <i>Oecologia</i> , 2003, 137, 245-251.	0.9	383
164	Long-term investigations on the water budget quantities predicted by the hydro-thermodynamic soil vegetation scheme (HTSVS) ? Part I: Description of the model and impact of long-wave radiation, roots, snow, and soil frost. <i>Meteorology and Atmospheric Physics</i> , 2003, 84, 115-135.	0.9	29
165	Coarse root biomass for eucalypt plantations in Tasmania, Australia: sources of variation and methods for assessment. <i>Trees - Structure and Function</i> , 2003, 17, 389-399.	0.9	67

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166	Physical protection and biochemical quality of organic matter in mediterranean calcareous forest soils: a density fractionation approach. <i>Soil Biology and Biochemistry</i> , 2003, 35, 245-261.	4.2	72
167	Simulating methane emission from a Chinese rice field as influenced by fertilizer and water level. <i>Hydrological Processes</i> , 2003, 17, 3485-3501.	1.1	10
168	The evolution of, and revolution in, land surface schemes designed for climate models. <i>International Journal of Climatology</i> , 2003, 23, 479-510.	1.5	659
169	Predicting root biomass from branching patterns of Douglas-fir root systems. <i>Oikos</i> , 2003, 100, 96-104.	1.2	29
170	Chemical amelioration of high phosphorus availability in soil to aid the restoration of species-rich grassland. <i>Ecological Engineering</i> , 2003, 19, 297-304.	1.6	15
171	Fine root biomass, production and turnover in a fertilized <i>Larix leptolepis</i> plantation in central Korea. <i>Ecological Research</i> , 2003, 18, 339-346.	0.7	38
172	Evaluation of ecosystem dynamics, plant geography and terrestrial carbon cycling in the LPJ dynamic global vegetation model. <i>Global Change Biology</i> , 2003, 9, 161-185.	4.2	2,681
173	Conundrums in mixed woody-herbaceous plant systems. <i>Journal of Biogeography</i> , 2003, 30, 1763-1777.	1.4	308
174	Temporal heterogeneity of soil moisture in grassland and forest. <i>Journal of Ecology</i> , 2003, 91, 234-239.	1.9	100
175	Vertical distribution of ectomycorrhizal fungal taxa in a podzol soil profile. <i>New Phytologist</i> , 2003, 159, 775-783.	3.5	310
176	Size and Structure of Fine Root Systems in Old-growth and Secondary Tropical Montane Forests (Costa Rica). <i>Biotropica</i> , 2003, 35, 143-153.	0.8	51
177	A plant functional approach to the prediction of changes in Australian rangeland vegetation under grazing and fire. <i>Journal of Vegetation Science</i> , 2003, 14, 333-344.	1.1	25
178	THE EFFECTS OF BIOTURBATION ON SOIL PROCESSES AND SEDIMENT TRANSPORT. <i>Annual Review of Earth and Planetary Sciences</i> , 2003, 31, 249-273.	4.6	338
179	GRASSLAND TO WOODLAND TRANSITIONS: INTEGRATING CHANGES IN LANDSCAPE STRUCTURE AND BIOGEOCHEMISTRY. , 2003, 13, 911-926.		100
180	EFFECTS OF FIRE AND HERBIVORY ON THE STABILITY OF SAVANNA ECOSYSTEMS. <i>Ecology</i> , 2003, 84, 337-350.	1.5	585
181	WOODY PLANT ESTABLISHMENT AND SPATIAL HETEROGENEITY IN GRASSLANDS. <i>Ecology</i> , 2003, 84, 907-919.	1.5	119
182	Modeling carbon dynamics in vegetation and soil under the impact of soil erosion and deposition. <i>Global Biogeochemical Cycles</i> , 2003, 17, n/a-n/a.	1.9	206
183	Modelling Cereal Root Systems for Water and Nitrogen Capture: Towards an Economic Optimum. <i>Annals of Botany</i> , 2003, 91, 383-390.	1.4	213

#	ARTICLE	IF	CITATIONS
184	Root distribution of Mediterranean woody plants. Introducing a new empirical model. <i>Plant Biosystems</i> , 2003, 137, 63-72.	0.8	16
185	Responses of an evergreen shrub <i>Sabina vulgaris</i> to soil water and nutrient shortages in the semi-arid Mu Us Sandland in China. <i>Journal of Arid Environments</i> , 2003, 53, 307-316.	1.2	31
186	The significance of lateral roots in phosphorus (P) acquisition of water hyacinth (<i>Eichhornia</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 662 T	0.8	85
187	High-resolution spatial analysis of stomatal ozone uptake in arable crops and pastures. <i>Environment International</i> , 2003, 29, 385-392.	4.8	26
188	Carbon storage of harvest-age teak (<i>Tectona grandis</i>) plantations, Panama. <i>Forest Ecology and Management</i> , 2003, 173, 213-225.	1.4	136
189	Root biomass and carbon storage of ponderosa pine in a northwest Patagonia plantation. <i>Forest Ecology and Management</i> , 2003, 173, 353-360.	1.4	37
190	Biomass and carbon sequestration of ponderosa pine plantations and native cypress forests in northwest Patagonia. <i>Forest Ecology and Management</i> , 2003, 180, 317-333.	1.4	118
191	Soil water under forests (SWUF): a model of water flow and soil water content under a range of forest types. <i>Forest Ecology and Management</i> , 2003, 182, 195-211.	1.4	21
192	A handbook of protocols for standardised and easy measurement of plant functional traits worldwide. <i>Australian Journal of Botany</i> , 2003, 51, 335.	0.3	3,071
193	Sensitivity of Annual Evaporation to Soil and Root Properties in Two Models of Contrasting Complexity. <i>Journal of Hydrometeorology</i> , 2003, 4, 1276-1290.	0.7	135
194	Biogeochemistry of Decomposition and Detrital Processing. , 2003, , 249-316.		16
195	Root biomass and carbon in a tropical evergreen forest of Mexico: changes with secondary succession and forest conversion to pasture. <i>Journal of Tropical Ecology</i> , 2003, 19, 457-464.	0.5	47
196	Nitrogen stable isotope composition of leaves and roots of plants growing in a forest and a meadow. <i>Isotopes in Environmental and Health Studies</i> , 2003, 39, 29-39.	0.5	40
197	Belowground and aboveground biomass in young postfire lodgepole pine forests of contrasting tree density. <i>Canadian Journal of Forest Research</i> , 2003, 33, 351-363.	0.8	119
198	Size and Structure of Fine Root Systems in Old-growth and Secondary Tropical Montane Forests (Costa Rica)1. <i>Biotropica</i> , 2003, 35, 143.	0.8	42
199	A Representation of Variable Root Distribution in Dynamic Vegetation Models. <i>Earth Interactions</i> , 2003, 7, 1-19.	0.7	76
200	Root Ecology. <i>Ecological Studies</i> , 2003, , .	0.4	57
201	Constraints on the Form and Function of Root Systems. <i>Ecological Studies</i> , 2003, , 1-31.	0.4	51

#	ARTICLE	IF	CITATIONS
202	Tracing Changes in Ecosystem Function under Elevated Carbon Dioxide Conditions. <i>BioScience</i> , 2003, 53, 805.	2.2	60
203	The effect of soil texture and roots on the stable carbon isotope composition of soil organic carbon. <i>Soil Research</i> , 2003, 41, 77.	0.6	74
204	Accounting for fine root mass sample losses in the washing process: a case study from a tropical montane forest of Colombia. <i>Journal of Tropical Ecology</i> , 2003, 19, 599-601.	0.5	13
206	Competition for water between beech seedlings and surrounding vegetation in different light and vegetation composition conditions. <i>Annals of Forest Science</i> , 2003, 60, 593-600.	0.8	83
207	Root Development and Rooting at Depths. , 0, , 233-262.		20
208	The Impact of 200 Years of Land Cover Change on the Australian Near-Surface Climate. <i>Journal of Hydrometeorology</i> , 2003, 4, 424-436.	0.7	81
209	Regolith Water in Zero-Order Chaparral and Perennial Grass Watersheds Four Decades after Vegetation Conversion. <i>Vadose Zone Journal</i> , 2004, 3, 1007-1016.	1.3	20
210	Root distribution of <i>Pinus pinaster</i> , <i>P. radiata</i> , <i>Eucalyptus globulus</i> and <i>E. kochii</i> and associated soil chemistry in agricultural land adjacent to tree lines. <i>Tree Physiology</i> , 2004, 24, 1333-1346.	1.4	58
211	Effects of Individual Bunchgrasses on Potential C and N Mineralization of Longleaf Pine Savanna Soils. <i>Journal of the Torrey Botanical Society</i> , 2004, 131, 120.	0.1	4
212	DIRECT AND INDIRECT EFFECTS OF FIRE ON SHRUB DENSITY AND ABOVEGROUND PRODUCTIVITY IN A MESIC GRASSLAND. <i>Ecology</i> , 2004, 85, 2245-2257.	1.5	83
213	Predicting Invasive Species Impacts on Hydrological Processes: The Consequences of Plant Physiology for Landscape Processes. <i>Weed Technology</i> , 2004, 18, 1408-1410.	0.4	31
214	Issues and prospects of belowground ecology with special reference to global climate change. <i>Science Bulletin</i> , 2004, 49, 1891.	1.7	2
215	Impact of soil warming and shading on colonization and community structure of arbuscular mycorrhizal fungi in roots of a native grassland community. <i>Global Change Biology</i> , 2004, 10, 52-64.	4.2	127
216	Groundwater use and salinization with grassland afforestation. <i>Global Change Biology</i> , 2004, 10, 1299-1312.	4.2	188
217	The plastic plant: root responses to heterogeneous supplies of nutrients. <i>New Phytologist</i> , 2004, 162, 9-24.	3.5	1,392
218	Carbon allocation to ectomycorrhizal roots and mycelium colonising different mineral substrates. <i>New Phytologist</i> , 2004, 162, 795-802.	3.5	110
219	Carbon sequestration in temperate grassland ecosystems and the influence of management, climate and elevated CO ₂ . <i>New Phytologist</i> , 2004, 164, 423-439.	3.5	403
220	Hydraulic redistribution by a dominant, warm-desert phreatophyte: seasonal patterns and response to precipitation pulses. <i>Functional Ecology</i> , 2004, 18, 530-538.	1.7	122

#	ARTICLE	IF	CITATIONS
221	Litter quality and nutrient cycling affected by grazing-induced species replacements along a precipitation gradient. <i>Oikos</i> , 2004, 107, 148-160.	1.2	98
222	Natural abundance of ¹³ C and ¹⁵ N in C3 and C4 vegetation of southern Africa: patterns and implications. <i>Global Change Biology</i> , 2004, 10, 350-358.	4.2	228
223	Stand fine root biomass and fine root morphology in old-growth beech forests as a function of precipitation and soil fertility. <i>Plant and Soil</i> , 2004, 258, 43-56.	1.8	197
224	Isotopic estimates of new carbon inputs into litter and soils in a four-year climate change experiment with Douglas-fir. <i>Plant and Soil</i> , 2004, 259, 331-343.	1.8	43
225	Tree species, root decomposition and subsurface denitrification potential in riparian wetlands. <i>Plant and Soil</i> , 2004, 263, 335-344.	1.8	21
226	Plant responses to precipitation in desert ecosystems: integrating functional types, pulses, thresholds, and delays. <i>Oecologia</i> , 2004, 141, 282-294.	0.9	390
227	Hierarchy of responses to resource pulses in arid and semi-arid ecosystems. <i>Oecologia</i> , 2004, 141, 211-220.	0.9	772
228	A multi-scale perspective of water pulses in dryland ecosystems: climatology and ecohydrology of the western USA. <i>Oecologia</i> , 2004, 141, 269-281.	0.9	459
229	Dual-porosity modeling of groundwater recharge: testing a quick calibration using in situ moisture measurements, Areuse River Delta, Switzerland. <i>Hydrogeology Journal</i> , 2004, 12, 464.	0.9	11
230	Atmospheric response to soil-frost and snow in Alaska in March. <i>Theoretical and Applied Climatology</i> , 2004, 77, 77-105.	1.3	23
231	Issues and prospects of belowground ecology with special reference to global climate change. <i>Science Bulletin</i> , 2004, 49, 1891-1899.	1.7	33
232	Vertical root distribution characters of <i>Robinia pseudoacacia</i> on the Loess Plateau in China. <i>Journal of Forestry Research</i> , 2004, 15, 87-92.	1.7	20
233	Estimation of Carbon Sequestration by Combining Remote Sensing and Net Ecosystem Exchange Data for Northern Mixed-Grass Prairie and Sagebrush "Steppe Ecosystems. <i>Environmental Management</i> , 2004, 33, S432-S441.	1.2	28
234	Modeling soil quality thresholds to ecosystem recovery at Fort Benning, GA, USA. <i>Ecological Engineering</i> , 2004, 23, 351-369.	1.6	20
235	Seasonal patterns of fine-root production and mortality in <i>Prunus avium</i> in Scotland. <i>Canadian Journal of Forest Research</i> , 2004, 34, 1534-1537.	0.8	9
236	Influence of shrub encroachment on aboveground net primary productivity and carbon and nitrogen pools in a mesic grassland. <i>Canadian Journal of Botany</i> , 2004, 82, 1363-1370.	1.2	70
237	Some aspects of ecophysiological and biogeochemical responses of tropical forests to atmospheric change. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2004, 359, 463-476.	1.8	92
238	Land Change Science. <i>Remote Sensing and Digital Image Processing</i> , 2004, , .	0.7	102

#	ARTICLE	IF	CITATIONS
239	Implementation of depth-dependent soil concentrations in multimedia mass balance models. SAR and QSAR in Environmental Research, 2004, 15, 457-468.	1.0	10
240	An integrated model for soil organic carbon and CO ₂ : Implications for paleosol carbonate CO ₂ paleobarometry. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	1.9	39
241	Impact of observed vegetation root distribution on seasonal global simulations of land surface processes. Journal of Geophysical Research, 2004, 109, .	3.3	4
242	Vegetation, Water, Humans and the Climate. Global Change - the IGBP Series, 2004, , .	2.1	94
243	Terrestrial vegetation and water balance—hydrological evaluation of a dynamic global vegetation model. Journal of Hydrology, 2004, 286, 249-270.	2.3	783
244	How plant functional-type, weather, seasonal drought, and soil physical properties alter water and energy fluxes of an oak—grass savanna and an annual grassland. Agricultural and Forest Meteorology, 2004, 123, 13-39.	1.9	504
245	Plant-cover effects on hydrology and pedogenesis in a sandy vadose zone. Geoderma, 2004, 118, 63-76.	2.3	8
246	Global Datasets of Rooting Zone Depth Inferred from Inverse Methods. Journal of Climate, 2004, 17, 2714-2722.	1.2	49
247	USING A GENERALIZED VEGETATION MODEL TO SIMULATE VEGETATION DYNAMICS IN NORTHEASTERN USA. Ecology, 2004, 85, 519-530.	1.5	177
248	Community metabolism and carbon budget along a gradient of seagrass (<i>Cymodocea nodosa</i>) colonization. Limnology and Oceanography, 2004, 49, 1642-1651.	1.6	97
249	The Influence of trees on stream bank erosion: Evidence from root-plate abutments. Water Science and Application, 2004, , 141-152.	0.3	10
250	BELOWGROUND LITTER CONTRIBUTIONS TO NITROGEN CYCLING AT A NORTHERN GRASSLAND—FOREST BOUNDARY. Ecology, 2005, 86, 2825-2833.	1.5	60
251	Upgrading the coupled vegetation boundary layer model HIRVAC by new soil water and interception modules. Meteorologische Zeitschrift, 2005, 14, 211-218.	0.5	5
252	The Impact of Land—Atmosphere Interactions on the Temporal Variability of Soil Moisture at the Regional Scale. Journal of Hydrometeorology, 2005, 6, 53-67.	0.7	12
253	Plant- and Soil-Parameter-Caused Uncertainty of Predicted Surface Fluxes. Monthly Weather Review, 2005, 133, 3498-3516.	0.5	23
254	Interannual Variability of Deep-Layer Hydrologic Memory and Mechanisms of Its Influence on Surface Energy Fluxes. Journal of Climate, 2005, 18, 5024-5045.	1.2	69
256	Above- and below-ground litter production in three tropical montane forests in southern Ecuador. Journal of Tropical Ecology, 2005, 21, 483-492.	0.5	121
257	Plant Responses to an Edaphic Gradient across an Active Sand Dune/Desert Boundary in the Great Basin Desert. International Journal of Plant Sciences, 2005, 166, 247-255.	0.6	38

#	ARTICLE	IF	CITATIONS
258	The Role of Biodiversity on the Evaporation of Forests. , 2005, , 131-148.		14
259	Conventional detection methodology is limiting our ability to understand the roles and functions of fine roots. <i>New Phytologist</i> , 2005, 166, 967-980.	3.5	160
260	Accelerated belowground C cycling in a managed agriforest ecosystem exposed to elevated carbon dioxide concentrations. <i>Global Change Biology</i> , 2005, 11, 1258-1271.	4.2	80
261	Effects of afforestation on water yield: a global synthesis with implications for policy. <i>Global Change Biology</i> , 2005, 11, 1565-1576.	4.2	822
262	Spatial pattern and process in forest stands within the Virginia piedmont. <i>Journal of Vegetation Science</i> , 2005, 16, 37-48.	1.1	56
263	New model to predict rooting in diverse plant community compositions. <i>Ecological Modelling</i> , 2005, 185, 195-211.	1.2	42
264	Distribution of soil carbon stocks in Canada's forests and wetlands simulated based on drainage class, topography and remotely sensed vegetation parameters. <i>Hydrological Processes</i> , 2005, 19, 77-94.	1.1	59
265	Niche differences in phenology and rooting depth promote coexistence with a dominant C4 bunchgrass. <i>Oecologia</i> , 2005, 143, 598-606.	0.9	226
266	Clustered root distribution in mature stands of <i>Fagus sylvatica</i> and <i>Picea abies</i> . <i>Oecologia</i> , 2005, 144, 25-31.	0.9	24
267	Precipitation pulse use by an invasive woody legume: the role of soil texture and pulse size. <i>Oecologia</i> , 2005, 144, 618-627.	0.9	108
268	The role of land surface processes in regional climate change: a case study of future land cover change over south western Australia. <i>Meteorology and Atmospheric Physics</i> , 2005, 89, 235-249.	0.9	18
269	Non-indigenous grasses impede woody succession. <i>Plant Ecology</i> , 2005, 178, 249-264.	0.7	70
270	Production of Perennial Vegetation in an Oasis-desert Transition Zone in NW China - Allometric Estimation, and Assessment of Flooding and Use Effects. <i>Plant Ecology</i> , 2005, 181, 23-43.	0.7	45
271	Variations in life-form composition and foliar carbon isotope discrimination among eight plant communities under different soil moisture conditions in the Xilin River Basin, Inner Mongolia, China. <i>Ecological Research</i> , 2005, 20, 167-176.	0.7	39
272	Soil organic carbon content at a range of north Australian tropical savannas with contrasting site histories. <i>Plant and Soil</i> , 2005, 268, 161-171.	1.8	31
273	Fractal geometry and root system structures of heterogeneous plant communities. <i>Plant and Soil</i> , 2005, 272, 61-76.	1.8	40
274	Root Strength and Root Area Ratio of Forest Species in Lombardy (Northern Italy). <i>Plant and Soil</i> , 2005, 278, 11-22.	1.8	275
275	Fine Root Distribution in Dehesas of Central-Western Spain. <i>Plant and Soil</i> , 2005, 277, 153-162.	1.8	149

#	ARTICLE	IF	CITATIONS
276	Enrichment over Time of Organic Carbon and Available Phosphorus in Semiarid Soil. <i>Soil Science Society of America Journal</i> , 2005, 69, 1617-1626.	1.2	20
277	Ecohydrology Monitoring and Excavation of Semiarid Landfill Covers a Decade after Installation. <i>Vadose Zone Journal</i> , 2005, 4, 798-810.	1.3	19
279	Análisis de la biomasa de raíces en diferentes tipos de bosques: Avances en la evaluación de <i>Pinus radiata</i> en Chile. <i>Bosque</i> , 2005, 26, 5.	0.1	9
280	Planetary Machinery: The Dynamics of the Earth System Prior to Significant Human Influence. <i>Global Change - the IGBP Series</i> , 2005, , 11-80.	2.1	0
281	Vertical Vegetation Structure Below Ground: Scaling from Root to Globe. , 2005, , 341-373.		46
285	ECOHYDROLOGICAL CONTROL OF DEEP DRAINAGE IN ARID AND SEMIARID REGIONS. <i>Ecology</i> , 2005, 86, 277-287.	1.5	159
286	Investigation of Hydrological Variability in West Africa Using Land Surface Models. <i>Journal of Climate</i> , 2005, 18, 3173-3188.	1.2	49
287	An Introduction to the Functional Diversity of Temperate Forest Trees. , 2005, , 13-37.		30
288	The Depth Distribution of Soil Organic Carbon in Relation to Land Use and Management and the Potential of Carbon Sequestration in Subsoil Horizons. <i>Advances in Agronomy</i> , 2005, , 35-66.	2.4	436
289	Modelling Below- and Above-ground Biomass for Non-woody and Woody Plants. <i>Annals of Botany</i> , 2005, 95, 315-321.	1.4	123
291	WEAP21: A Demand-, Priority-, and Preference-Driven Water Planning Model. <i>Water International</i> , 2005, 30, 501-512.	0.4	133
292	Ecosystem carbon storage under different land uses in three semi-arid shrublands and a mesic grassland in South Africa. <i>South African Journal of Plant and Soil</i> , 2005, 22, 183-190.	0.4	39
293	Distributed hydrological model for mapping evapotranspiration using remote sensing inputs. <i>Journal of Hydrology</i> , 2005, 305, 15-39.	2.3	230
294	Groundwater use by vegetation in a tropical savanna riparian zone (Daly River, Australia). <i>Journal of Hydrology</i> , 2005, 310, 280-293.	2.3	92
295	Moisture and soil texture effects on soil CO ₂ efflux components in southeastern mixed pine forests. <i>Forest Ecology and Management</i> , 2005, 204, 87-97.	1.4	120
296	Root biomass along subtropical to alpine gradients: global implication from Tibetan transect studies. <i>Forest Ecology and Management</i> , 2005, 206, 349-363.	1.4	46
297	Mapping the global distribution of deep roots in relation to climate and soil characteristics. <i>Geoderma</i> , 2005, 126, 129-140.	2.3	287
298	Growth and function of the sugarcane root system. <i>Field Crops Research</i> , 2005, 92, 169-183.	2.3	214

#	ARTICLE	IF	CITATIONS
299	Erosion of upland hillslope soil organic carbon: Coupling field measurements with a sediment transport model. <i>Global Biogeochemical Cycles</i> , 2005, 19, .	1.9	103
300	The winter Arctic Oscillation, the timing of spring, and carbon fluxes in the Northern Hemisphere. <i>Global Biogeochemical Cycles</i> , 2005, 19, .	1.9	33
301	Historical land use changes and mesoscale summer climate on the Swiss Plateau. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	18
302	Investigation hydrologic scaling: Observed effects of heterogeneity and nonlocal processes across hillslope, watershed, and regional scales. <i>Water Resources Research</i> , 2005, 41, .	1.7	21
304	Quantifying the coarse-root biomass of intensively managed loblolly pine plantations. <i>Canadian Journal of Forest Research</i> , 2006, 36, 12-22.	0.8	45
305	Root-Water-Uptake Based upon a New Water Stress Reduction and an Asymptotic Root Distribution Function. <i>Earth Interactions</i> , 2006, 10, 1-22.	0.7	58
306	Comparison of Stocking Rates From Remote Sensing and Geospatial Data. <i>Rangeland Ecology and Management</i> , 2006, 59, 11-18.	1.1	37
307	Relationships among forest soil C isotopic composition, partitioning, and turnover times. <i>Canadian Journal of Forest Research</i> , 2006, 36, 2157-2167.	0.8	45
308	How switches and lags in biophysical regulators affect spatial-temporal variation of soil respiration in an oak-grass savanna. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	130
309	Modeling physical and biogeochemical controls over carbon accumulation in a boreal forest soil. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	53
310	Effect of spacing and water availability on root:shoot ratio in <i>Eucalyptus camaldulensis</i> . <i>Forest Ecology and Management</i> , 2006, 221, 52-62.	1.4	42
311	Spatial patterns of soil organic carbon on hillslopes: Integrating geomorphic processes and the biological C cycle. <i>Geoderma</i> , 2006, 130, 47-65.	2.3	199
312	Stabilization of organic carbon in chemically separated pools in no-till and meadow soils in Northern Appalachia. <i>Geoderma</i> , 2006, 137, 205-211.	2.3	20
313	Seasonal soil water variation and root patterns between two semi-arid shrubs co-existing with Pearl millet in Senegal, West Africa. <i>Journal of Arid Environments</i> , 2006, 67, 436-455.	1.2	68
314	Soil Properties and Carbon Sequestration of Afforested Pastures in Reclaimed Minesoils of Ohio. <i>Soil Science Society of America Journal</i> , 2006, 70, 1797-1806.	1.2	123
315	Integrated nutrient cycles in boreal forest ecosystems – the role of mycorrhizal fungi. , 2006, , 28-50.		15
316	Determining Vertical Root and Microbial Biomass Distributions from Soil Samples. <i>Soil Science Society of America Journal</i> , 2006, 70, 728-735.	1.2	18
319	Comparison of Stocking Rates From Remote Sensing and Geospatial Data. <i>Journal of Range Management</i> , 2006, 59, .	0.3	0

#	ARTICLE	IF	CITATIONS
320	Estimation of Root Biomass and Root Surface Area in a Broad-leaved Secondary Forest in the Southern Part of Kyoto Prefecture.. Journal of the Japanese Forest Society, 2006, 88, 120-125.	0.1	9
321	Advantages in Water Relations Contribute to Greater Photosynthesis in <i>Centaurea maculosa</i> Compared with Established Grasses. International Journal of Plant Sciences, 2006, 167, 269-277.	0.6	30
322	Estimating the Long-Term Hydrological Budget over Heterogeneous Surfaces. Journal of Hydrometeorology, 2006, 7, 203-214.	0.7	1
323	Development and Growth of Root Systems. , 0, , 45-79.		5
324	The potential impact of climate change on Australia's soil organic carbon resources. Carbon Balance and Management, 2006, 1, 14.	1.4	27
325	Geographical and interannual variability in biomass partitioning in grassland ecosystems: a synthesis of field data. New Phytologist, 2006, 169, 85-93.	3.5	209
326	Hydrological effects on carbon cycles of Canada's forests and wetlands. Tellus, Series B: Chemical and Physical Meteorology, 2006, 58, 16-30.	0.8	45
327	Development of an automatic chamber system for long-term measurements of CO ₂ flux from roots. Tellus, Series B: Chemical and Physical Meteorology, 2006, 58, 502-512.	0.8	28
328	Decline in alkali meadow vegetation cover in California: the effects of groundwater extraction and drought. Journal of Applied Ecology, 2006, 43, 770-779.	1.9	100
329	Tree-grass coexistence in the Brazilian cerrado: demographic consequences of environmental instability. Journal of Biogeography, 2006, 33, 448-463.	1.4	59
330	Productivity and carbon fluxes of tropical savannas. Journal of Biogeography, 2006, 33, 387-400.	1.4	506
331	Molecular approach for assessing responses of microbial-feeding nematodes to burning and chronic nitrogen enrichment in a native grassland. Molecular Ecology, 2006, 15, 2601-2609.	2.0	18
332	Roots, rhizosphere and soil: the route to a better understanding of soil science?. European Journal of Soil Science, 2006, 57, 2-12.	1.8	372
333	Critical analysis of root:shoot ratios in terrestrial biomes. Global Change Biology, 2006, 12, 84-96.	4.2	1,076
334	Roots of pioneer trees in the lower sub-tropical area of Dinghushan, Guangdong, China. Journal of Zhejiang University: Science B, 2006, 7, 377-385.	1.3	4
335	Grazing and Ecosystem Carbon Storage in the North American Great Plains. Plant and Soil, 2006, 280, 77-90.	1.8	199
336	Vertical distribution of organic amendment influences the rooting depth of revegetation species on barren, subgrade serpentine substrate. Plant and Soil, 2006, 285, 19-29.	1.8	6
337	Genotype and fungicide effects on late-season root growth of winter wheat. Plant and Soil, 2006, 284, 33-44.	1.8	48

#	ARTICLE	IF	CITATIONS
338	A climate response function explaining most of the variation of the forest floor needle mass and the needle decomposition in pine forests across Europe. <i>Plant and Soil</i> , 2006, 285, 97-114.	1.8	24
339	Patterns of Fine Root Mass and Distribution along a Disturbance Gradient in a Tropical Montane Forest, Central Sulawesi (Indonesia). <i>Plant and Soil</i> , 2006, 283, 163-174.	1.8	25
340	BasinBox: A Generic Multimedia Fate Model for Predicting the Fate of Chemicals in River Catchments. <i>Hydrobiologia</i> , 2006, 565, 21-38.	1.0	21
341	Policy implications of a pan-tropic assessment of the simultaneous hydrological and biodiversity impacts of deforestation. <i>Water Resources Management</i> , 2006, 21, 211-232.	1.9	13
342	The Potential Impact of Agricultural Management and Climate Change on Soil Organic Carbon of the North Central Region of the United States. <i>Ecosystems</i> , 2006, 9, 816-827.	1.6	59
343	Aboveground productivity and root-shoot allocation differ between native and introduced grass species. <i>Oecologia</i> , 2006, 150, 300-309.	0.9	114
344	The sensitivity of ecosystem carbon exchange to seasonal precipitation and woody plant encroachment. <i>Oecologia</i> , 2006, 150, 453-463.	0.9	37
345	Relationships between soil CO ₂ concentration and CO ₂ production, temperature, water content, and gas diffusivity: implications for field studies through sensitivity analyses. <i>Journal of Forest Research</i> , 2006, 11, 41-50.	0.7	66
346	Spatial scaling of evapotranspiration as affected by heterogeneities in vegetation, topography, and soil texture. <i>Remote Sensing of Environment</i> , 2006, 102, 33-51.	4.6	67
347	Physical mechanisms of plant roots affecting weathering and leaching of loess soil. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 1002-1008.	0.9	6
348	A model for the investigation of long-term carbon dynamics in boreal forests of western Canada. <i>Ecological Modelling</i> , 2006, 192, 37-66.	1.2	16
349	A multiyear evaluation of a Dynamic Global Vegetation Model at three AmeriFlux forest sites: Vegetation structure, phenology, soil temperature, and CO ₂ and H ₂ O vapor exchange. <i>Ecological Modelling</i> , 2006, 196, 1-31.	1.2	161
350	SOCRATES—A simple model for predicting long-term changes in soil organic carbon in terrestrial ecosystems. <i>Soil Biology and Biochemistry</i> , 2006, 38, 1172-1176.	4.2	77
351	Short-term C ₄ plant <i>Spartina alterniflora</i> invasions change the soil carbon in C ₃ plant-dominated tidal wetlands on a growing estuarine Island. <i>Soil Biology and Biochemistry</i> , 2006, 38, 3380-3386.	4.2	130
352	Electrical measurement of tree root absorbing surfaces by the earth impedance method: 2. Verification based on allometric relationships and root severing experiments. <i>Tree Physiology</i> , 2006, 26, 1113-1121.	1.4	66
353	Functional Biodiversity Aspects on the Nutrient Sustainability in Forests-Importance of Root Distribution. <i>Journal of Sustainable Forestry</i> , 2006, 21, 77-100.	0.6	17
354	Drought constraints on C ₄ photosynthesis: stomatal and metabolic limitations in C ₃ and C ₄ subspecies of <i>Alloteropsis semialata</i> . <i>Journal of Experimental Botany</i> , 2007, 58, 1351-1363.	2.4	136
355	Riparian areas in the Canadian boreal forest and linkages with water quality in streams. <i>Environmental Reviews</i> , 2007, 15, 79-97.	2.1	54

#	ARTICLE	IF	CITATIONS
356	Enhancements of a Bank-Stability and Toe-Erosion Model and the Addition of Improved Mechanical Root-Reinforcement Algorithms. , 2007, , 1.		3
357	Nutrient Availability in Rangeland Soils: Influence of Prescribed Burning, Herbaceous Vegetation Removal, Overseeding with <i>Bromus Tectorum</i> , Season, and Elevation. <i>Rangeland Ecology and Management</i> , 2007, 60, 644-655.	1.1	41
358	Methodology for spatial scaling in NPP under the influence of variable topography and vegetation. , 2007, , .		0
359	Contribution of Root vs. Leaf Litter to Dissolved Organic Carbon Leaching through Soil. <i>Soil Science Society of America Journal</i> , 2007, 71, 1555-1563.	1.2	50
360	Implications of a large global root biomass for carbon sink estimates and for soil carbon dynamics. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 2753-2759.	1.2	84
361	Effect of topography on simulated net primary productivity spatial scaling in a mountainous landscape. , 2007, , .		1
362	Carbon isotope variation in modern soils of the tallgrass prairie: Analogues for the interpretation of isotopic records derived from paleosols. <i>Quaternary International</i> , 2007, 162-163, 3-20.	0.7	18
363	The distribution and degradation of biomarkers in Alberta grassland soil profiles. <i>Organic Geochemistry</i> , 2007, 38, 1558-1570.	0.9	114
364	Influence of wildfire induced land-cover changes on clouds and precipitation in Interior Alaska – A case study. <i>Atmospheric Research</i> , 2007, 84, 142-168.	1.8	37
365	Assessing the risk caused by ground level ozone to European forest trees: A case study in pine, beech and oak across different climate regions. <i>Environmental Pollution</i> , 2007, 147, 454-466.	3.7	97
366	Carbon sources and sinks in high-elevation spruce–fir forests of the Southeastern US. <i>Forest Ecology and Management</i> , 2007, 238, 249-260.	1.4	34
367	Factors controlling soil organic carbon sequestration under exotic tree plantations: A case study using the CO2Fix model in southwestern Ethiopia. <i>Forest Ecology and Management</i> , 2007, 252, 124-131.	1.4	41
368	Grass effects on tree (<i>Prosopis glandulosa</i>) growth in a temperate savanna. <i>Journal of Arid Environments</i> , 2007, 69, 212-227.	1.2	16
369	Above- and belowground biomass of <i>Artemisia ordosica</i> communities in three contrasting habitats of the Mu Us desert, northern China. <i>Journal of Arid Environments</i> , 2007, 70, 195-207.	1.2	25
370	Variation in fine root biomass of three European tree species: Beech (<i>Fagus sylvatica</i> L.), Norway spruce (<i>Picea abies</i> L. Karst.), and Scots pine (<i>Pinus sylvestris</i> L.). <i>Plant Biosystems</i> , 2007, 141, 394-405.	0.8	189
371	Oxygen transport in soil and the vertical distribution of roots. <i>Soil Research</i> , 2007, 45, 101.	0.6	17
372	EFFECT OF ELEVATED CO ₂ ON COARSE-ROOT BIOMASS IN FLORIDA SCRUB DETECTED BY GROUND-PENETRATING RADAR. <i>Ecology</i> , 2007, 88, 1328-1334.	1.5	100
374	WHAT MAKES GREAT BASIN SAGEBRUSH ECOSYSTEMS INVASIBLE BY <i>BROMUS TECTORUM</i> ?. <i>Ecological Monographs</i> , 2007, 77, 117-145.	2.4	495

#	ARTICLE	IF	CITATIONS
376	Evaluating temporal and spatial variations in recharge and streamflow using the Integrated Landscape Hydrology Model (ILHM). <i>Geophysical Monograph Series</i> , 2007, , 121-141.	0.1	11
377	Establishment of Native Species in Soils From Russian Knapweed (<i>Acroptilon Repens</i>) Invasions. <i>Rangeland Ecology and Management</i> , 2007, 60, 604-612.	1.1	4
378	Feedbacks of Terrestrial Ecosystems to Climate Change. <i>Annual Review of Environment and Resources</i> , 2007, 32, 1-29.	5.6	268
379	Changes in biomass carbon stocks in China's grasslands between 1982 and 1999. <i>Global Biogeochemical Cycles</i> , 2007, 21, n/a-n/a.	1.9	127
380	Experimental observations on fungal diagenesis of carbonate substrates. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	46
381	Factors controlling CO ₂ exchange on timescales from hourly to decadal at Harvard Forest. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	448
382	Ecohydrology of a seasonal cloud forest in Dhofar: 2. Role of clouds, soil type, and rooting depth in treeâ€grass competition. <i>Water Resources Research</i> , 2007, 43, .	1.7	22
383	Plant rooting strategies in water-limited ecosystems. <i>Water Resources Research</i> , 2007, 43, .	1.7	98
384	Foliar ¹⁵ N patterns along successional gradients at plant community and species levels. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	24
385	Modeling the dynamic root water uptake and its hydrological impact at the Reserva Jaru site in Amazonia. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	63
386	Nitrogen and Phosphorus Budgets in Experimental Grasslands of Variable Diversity. <i>Journal of Environmental Quality</i> , 2007, 36, 396-407.	1.0	58
387	Soil Rhizosphere Food Webs, Their Stability, and Implications for Soil Processes in Ecosystems. , 2007, , 101-125.		6
388	An assessment of energy efficiency in reclamation to forest. <i>Ecological Engineering</i> , 2007, 30, 341-348.	1.6	39
389	An analysis of soil moisture dynamics using multi-year data from a network of micrometeorological observation sites. <i>Advances in Water Resources</i> , 2007, 30, 1065-1081.	1.7	66
390	Who is Who in Carbon Balance and Management 2006. <i>Carbon Balance and Management</i> , 2007, 2, .	1.4	9
391	Biosphereâ€atmosphere interactions over West Africa. I: Development and validation of a coupled dynamic model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2000, 126, 1239-1260.	1.0	42
392	Carbon dioxide uptake, water relations and drought survival for <i>Dudleya saxosa</i> , the 'rock live-forever?', growing in small soil volumes. <i>Functional Ecology</i> , 2007, 21, 698-704.	1.7	6
393	Estimating parameters in a land-surface model by applying nonlinear inversion to eddy covariance flux measurements from eight FLUXNET sites. <i>Global Change Biology</i> , 2007, 13, 652-670.	4.2	144

#	ARTICLE	IF	CITATIONS
394	Source components and interannual variability of soil CO ₂ efflux under experimental warming and clipping in a grassland ecosystem. <i>Global Change Biology</i> , 2007, 13, 070323073558001-???.	4.2	145
395	Carbon allocation in forest ecosystems. <i>Global Change Biology</i> , 2007, 13, 2089-2109.	4.2	849
396	Aquaporin-mediated changes in hydraulic conductivity of deep tree roots accessed via caves. <i>Plant, Cell and Environment</i> , 2007, 30, 1411-1421.	2.8	82
397	A method for extracting plant roots from soil which facilitates rapid sample processing without compromising measurement accuracy. <i>New Phytologist</i> , 2007, 174, 697-703.	3.5	60
398	Contribution of new photosynthetic assimilates to respiration by perennial grasses and shrubs: residence times and allocation patterns. <i>New Phytologist</i> , 2007, 176, 124-135.	3.5	179
399	Long-term warming effects on root morphology, root mass distribution, and microbial activity in two dry tundra plant communities in northern Sweden. <i>New Phytologist</i> , 2007, 176, 862-873.	3.5	85
400	An overview of regional land-use and land-cover impacts on rainfall. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007, 59, 587-601.	0.8	385
401	Extinction Depth and Evapotranspiration from Ground Water under Selected Land Covers. <i>Ground Water</i> , 2007, 45, 329-338.	0.7	200
402	Predicting ecosystem functioning from plant traits: Results from a multi-scale ecophysiological modeling approach. <i>Ecological Modelling</i> , 2007, 203, 453-463.	1.2	12
403	Integrated eco-hydrological modelling of soil organic matter dynamics for the assessment of environmental change impacts in meso- to macro-scale river basins. <i>Ecological Modelling</i> , 2007, 206, 93-109.	1.2	15
404	Plant Functional Types: Are We Getting Any Closer to the Holy Grail?. , 2007, , 149-164.		237
405	Variation in water uptake dynamics among contrasting agricultural and native plant communities in the Midwestern U.S.. <i>Agriculture, Ecosystems and Environment</i> , 2007, 121, 343-356.	2.5	125
406	Simulating the fluxes of CO ₂ and N ₂ O in European grasslands with the Pasture Simulation Model (PaSim). <i>Agriculture, Ecosystems and Environment</i> , 2007, 121, 164-174.	2.5	35
407	Improvements of a dynamic global vegetation model and simulations of carbon and water at an upland-oak forest. <i>Advances in Atmospheric Sciences</i> , 2007, 24, 311-322.	1.9	9
408	Uptake of water from soils by plant roots. <i>Transport in Porous Media</i> , 2007, 68, 5-28.	1.2	84
409	Fine-root mass, growth and nitrogen content for six tropical tree species. <i>Plant and Soil</i> , 2007, 290, 357-370.	1.8	79
410	A quick method to determine root biomass distribution in diameter classes. <i>Plant and Soil</i> , 2007, 290, 371-381.	1.8	38
411	Influence of soil thickness on stand characteristics in a Sierra Nevada mixed-conifer forest. <i>Plant and Soil</i> , 2007, 294, 113-123.	1.8	68

#	ARTICLE	IF	CITATIONS
412	Root characteristics of representative Mediterranean plant species and their erosion-reducing potential during concentrated runoff. <i>Plant and Soil</i> , 2007, 294, 169-183.	1.8	206
413	Spatial and temporal patterns of root distribution in developing stands of four woody crop species grown with drip irrigation and fertilization. <i>Plant and Soil</i> , 2007, 299, 195-213.	1.8	61
414	The change of soil carbon stocks and fine root dynamics after land use change from a native pasture to a pine plantation. <i>Plant and Soil</i> , 2007, 299, 251-262.	1.8	95
415	Are fine roots of both shrubs and perennial grasses able to occupy the upper soil layer? A case study in the arid Patagonian Monte with non-seasonal precipitation. <i>Plant and Soil</i> , 2007, 300, 281-288.	1.8	45
416	Storage, patterns and environmental controls of soil organic carbon in China. <i>Biogeochemistry</i> , 2007, 84, 131-141.	1.7	238
417	Seasonality of vertically partitioned soil CO ₂ production in temperate and tropical forest. <i>Journal of Forest Research</i> , 2007, 12, 209-221.	0.7	35
418	The role of fine and coarse roots in shallow slope stability and soil erosion control with a focus on root system architecture: a review. <i>Trees - Structure and Function</i> , 2007, 21, 385-402.	0.9	425
419	Drought effects on above- and belowground production of a grazed temperate grassland ecosystem. <i>Oecologia</i> , 2007, 152, 131-139.	0.9	92
420	The effects of tree establishment on water and salt dynamics in naturally salt-affected grasslands. <i>Oecologia</i> , 2007, 152, 695-705.	0.9	70
421	Contribution of root to soil respiration and carbon balance in disturbed and undisturbed grassland communities, northeast China. <i>Journal of Biosciences</i> , 2007, 32, 375-384.	0.5	18
422	Effects of topography on simulated net primary productivity at landscape scale. <i>Journal of Environmental Management</i> , 2007, 85, 585-596.	3.8	57
423	A Linking Test to reduce the number of hydraulic parameters necessary to simulate groundwater recharge in unsaturated soils. <i>Advances in Water Resources</i> , 2008, 31, 355-369.	1.7	28
424	A comparative study of dissolved organic carbon transport and stabilization in California forest and grassland soils. <i>Biogeochemistry</i> , 2008, 89, 309-327.	1.7	83
425	The response of sap flow to pulses of rain in a temperate Australian woodland. <i>Plant and Soil</i> , 2008, 305, 121-130.	1.8	77
426	Belowground net primary productivity and biomass allocation of a grassland in Inner Mongolia is affected by grazing intensity. <i>Plant and Soil</i> , 2008, 307, 41-50.	1.8	202
427	Seasonal patterns in depth of water uptake under contrasting annual and perennial systems in the Corn Belt Region of the Midwestern U.S.. <i>Plant and Soil</i> , 2008, 308, 69-92.	1.8	123
428	Characterisation of hemp (<i>Cannabis sativa</i> L.) roots under different growing conditions. <i>Plant and Soil</i> , 2008, 313, 227-235.	1.8	75
429	Estimation of the impact of oil palm plantation establishment on greenhouse gas balance. <i>Environment, Development and Sustainability</i> , 2008, 10, 697-716.	2.7	182

#	ARTICLE	IF	CITATIONS
430	Above- and belowground biomass in relation to environmental factors in temperate grasslands, Inner Mongolia. <i>Science in China Series C: Life Sciences</i> , 2008, 51, 263-270.	1.3	99
431	Influence of moisture on the growth and biomass allocation in <i>Haloxylon ammodendron</i> and <i>Tamarix ramosissima</i> seedlings in the shelterbelt along the Tarim Desert Highway, Xinjiang, China. <i>Science Bulletin</i> , 2008, 53, 93-101.	4.3	26
432	Effects of Historical and Likely Future Scenarios of Land Use on Above- and Belowground Vegetation Carbon Stocks of an Alpine Valley. <i>Ecosystems</i> , 2008, 11, 1383-1400.	1.6	68
433	Root distribution of <i>Fagus sylvatica</i> in a chronosequence in western France. <i>Journal of Forest Research</i> , 2008, 13, 176-184.	0.7	26
434	Rooting patterns and fine root biomass of <i>Pinus pinaster</i> assessed by trench wall and core methods. <i>Journal of Forest Research</i> , 2008, 13, 165-175.	0.7	59
435	Groundwater discharge mechanism in semi-arid regions and the role of evapotranspiration. <i>Hydrological Processes</i> , 2008, 22, 2993-3009.	1.1	22
436	Soil water dynamics under low- versus high-ponderosa pine tree density: ecohydrological functioning and restoration implications. <i>Ecohydrology</i> , 2008, 1, 309-315.	1.1	39
437	A Linking Test that establishes if groundwater recharge can be determined by optimising vegetation parameters against soil moisture. <i>Annals of Forest Science</i> , 2008, 65, 702-702.	0.8	9
438	Plant height as a simple predictor of the root to shoot ratio: Evidence from alpine grasslands on the Tibetan Plateau. <i>Journal of Vegetation Science</i> , 2008, 19, 245-252.	1.1	41
439	Ecosystem carbon gains from afforestation in the Boreal Transition ecozone of Saskatchewan (Canada) are coupled with the devolution of Black Chernozems. <i>Agriculture, Ecosystems and Environment</i> , 2008, 123, 56-62.	2.5	12
440	Carbon and nitrogen stocks in a native pasture and an adjacent 16-year-old <i>Pinus radiata</i> D. Don. plantation in Australia. <i>Agriculture, Ecosystems and Environment</i> , 2008, 124, 205-218.	2.5	46
441	Vulnerability of permafrost carbon to global warming. Part I: model description and role of heat generated by organic matter decomposition. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 60, 250.	0.8	87
442	Vulnerability of permafrost carbon to global warming. Part II: sensitivity of permafrost carbon stock to global warming. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 60, 265.	0.8	57
443	Scale and density dependent relationships among roots, mycorrhizal fungi and collembola in grassland and forest. <i>Oikos</i> , 2008, 117, 703-710.	1.2	45
444	Microbial contributions to climate change through carbon cycle feedbacks. <i>ISME Journal</i> , 2008, 2, 805-814.	4.4	888
445	Changes in Soil Properties Following 55 Years of Secondary Forest Succession at Fort Benning, Georgia, U.S.A.. <i>Restoration Ecology</i> , 2008, 16, 503-510.	1.4	24
446	CO ₂ enrichment increases carbon and nitrogen input from fine roots in a deciduous forest. <i>New Phytologist</i> , 2008, 179, 837-847.	3.5	146
447	Plant functional traits and soil carbon sequestration in contrasting biomes. <i>Ecology Letters</i> , 2008, 11, 516-531.	3.0	1,101

#	ARTICLE	IF	CITATIONS
448	Changes in grassland ecosystem function due to extreme rainfall events: implications for responses to climate change. <i>Global Change Biology</i> , 2008, 14, 1600-1608.	4.2	224
449	Belowground drought response of European beech: fine root biomass and carbon partitioning in 14 mature stands across a precipitation gradient. <i>Global Change Biology</i> , 2008, 14, 2081-2095.	4.2	187
450	Critical soil conditions for oxygen stress to plant roots: Substituting the Feddes-function by a process-based model. <i>Journal of Hydrology</i> , 2008, 360, 147-165.	2.3	82
451	Soil morphology, depth and grapevine root frequency influence microbial communities in a Pinot noir vineyard. <i>Soil Biology and Biochemistry</i> , 2008, 40, 1330-1340.	4.2	55
452	Spatial trends in saturated hydraulic conductivity of vegetated dunes in the Nebraska Sand Hills: Effects of depth and topography. <i>Journal of Hydrology</i> , 2008, 349, 88-97.	2.3	45
453	Evaluating the parameter identifiability and structural validity of a probability-distributed model for soil moisture. <i>Journal of Hydrology</i> , 2008, 353, 93-108.	2.3	26
454	Vegetation-hydrology dynamics in complex terrain of semiarid areas: 1. A mechanistic approach to modeling dynamic feedbacks. <i>Water Resources Research</i> , 2008, 44, .	1.7	184
455	Effects of paleoclimate and time-varying canopy structures on paleowater fluxes. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	10
456	Soil hydrological properties regulate grassland ecosystem responses to multifactor global change: A modeling analysis. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	94
457	Combined Simple Biosphere/Carnegie-Ames-Stanford Approach terrestrial carbon cycle model. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	138
458	Spatially explicit simulation of peatland hydrology and carbon dioxide exchange: Influence of mesoscale topography. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	53
459	Response and dendroclimatic implications of $\delta^{13}C$ in tree rings to increasing drought on the northeastern Tibetan Plateau. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	29
460	Onset of water stress, hysteresis in plant conductance, and hydraulic lift: Scaling soil water dynamics from millimeters to meters. <i>Water Resources Research</i> , 2008, 44, .	1.7	92
461	The influence of climate on root depth: A carbon cost-benefit analysis. <i>Water Resources Research</i> , 2008, 44, .	1.7	114
462	Observations and stochastic modeling of soil moisture control on evapotranspiration in a Californian oak savanna. <i>Water Resources Research</i> , 2008, 44, .	1.7	44
464	Progress in Botany. <i>Progress in Botany Fortschritte Der Botanik</i> , 2008, , .	0.1	2
465	Biometric and eddy-covariance-based estimates of carbon balance for a warm-temperate mixed forest in Japan. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 723-737.	1.9	53
466	The lateral spread of tree root systems in boreal forests: Estimates based on ^{15}N uptake and distribution of sporocarps of ectomycorrhizal fungi. <i>Forest Ecology and Management</i> , 2008, 255, 75-81.	1.4	39

#	ARTICLE	IF	CITATIONS
467	Effect of boron fertiliser, weed control and genotype on foliar nutrients and tree growth of juvenile <i>Pinus radiata</i> at two contrasting sites in New Zealand. <i>Forest Ecology and Management</i> , 2008, 255, 1196-1209.	1.4	9
468	Soil carbon dynamics in a chronosequence of secondary forests in northeastern Costa Rica. <i>Forest Ecology and Management</i> , 2008, 255, 1326-1335.	1.4	52
469	Forest biomass and root-shoot allocation in northeast China. <i>Forest Ecology and Management</i> , 2008, 255, 4007-4020.	1.4	123
470	<i>Araucaria</i> forest expansion on grassland in the southern Brazilian highlands as revealed by ¹⁴ C and ¹³ C studies. <i>Geoderma</i> , 2008, 145, 143-157.	2.3	53
471	Subsurface imaging of vegetation, climate, and root-zone moisture interactions. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	71
472	Spatial structure of hydraulic properties from canopy to interspace in the Mojave Desert. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	25
473	Integrated assessment of cropland soil carbon sensitivity to recent and future climate in the Elbe River basin. <i>Hydrological Sciences Journal</i> , 2008, 53, 1043-1058.	1.2	14
474	Water table depth affects productivity, water use, and the response to nitrogen addition in a savanna system. <i>Canadian Journal of Forest Research</i> , 2008, 38, 2118-2127.	0.8	40
475	Enhanced Application of Root-Reinforcement Algorithms for Bank-Stability Modeling. , 2008, , .		0
476	AN ECOHYDROLOGICAL ANALYSIS FOR OPTIMAL USE OF REDISTRIBUTED WATER AMONG VEGETATION PATCHES. <i>Ecological Applications</i> , 2008, 18, 1679-1688.	1.8	24
477	Residue Decomposition and Fate of Nitrogen-15 in a Wheat Crop under Different Previous Crops and Tillage Systems. <i>Communications in Soil Science and Plant Analysis</i> , 2008, 39, 574-586.	0.6	15
478	How well can hillslope evolution models "explain" topography? Simulating soil transport and production with high-resolution topographic data. <i>Bulletin of the Geological Society of America</i> , 2008, 120, 1248-1262.	1.6	149
479	DIRECT AND INDIRECT CONTROL OF GRASSLAND COMMUNITY STRUCTURE BY LITTER, RESOURCES, AND BIOMASS. <i>Ecology</i> , 2008, 89, 216-225.	1.5	113
480	The Influence of Soil and Vegetation Parameters on Atmospheric Variables Relevant for Convection in the Sahel. <i>Journal of Hydrometeorology</i> , 2008, 9, 461-476.	0.7	9
481	Soil Sensitivity to Acidification in Asia: Status and Prospects. <i>Ambio</i> , 2008, 37, 295-303.	2.8	40
482	Spatial distribution of forest aboveground biomass estimated from remote sensing and forest inventory data in New England, USA. <i>Journal of Applied Remote Sensing</i> , 2008, 2, 021502.	0.6	16
483	MODELING PATTERNS OF NONLINEARITY IN ECOSYSTEM RESPONSES TO TEMPERATURE, CO ₂ , AND PRECIPITATION CHANGES. , 2008, 18, 453-466.		75
484	Analytical Derivation of Steady-State Soil Water Probability Density Function Coupled with Simple Stochastic Point Rainfall Model. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008, 13, 1069-1077.	0.8	9

#	ARTICLE	IF	CITATIONS
485	WOODY PLANTS IN GRASSLANDS: POST-ENCROACHMENT STAND DYNAMICS. <i>Ecological Applications</i> , 2008, 18, 928-944.	1.8	118
486	When Competition Does Not Matter: Grassland Diversity and Community Composition. <i>American Naturalist</i> , 2008, 171, 777-787.	1.0	91
487	Fine root biomass in a beech (<i>Fagus sylvatica</i> L.) stand on Paiko Mountain, NW Greece. <i>Plant Biosystems</i> , 2008, 142, 381-385.	0.8	6
488	Rooting depth and above-ground community composition in Kalahari sand woodlands in western Zimbabwe. <i>Journal of Tropical Ecology</i> , 2008, 24, 169-176.	0.5	19
489	Temporal and spatial variation of fine roots in a northern Australian <i>Eucalyptus tetrodonta</i> savanna. <i>Journal of Tropical Ecology</i> , 2008, 24, 177-188.	0.5	22
490	Seasonal drought stress in the Amazon: Reconciling models and observations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	248
492	An analysis of the sensitivity of sap flux to soil and plant variables assessed for an Australian woodland using a soil - plant - atmosphere model. <i>Functional Plant Biology</i> , 2008, 35, 509.	1.1	92
493	The Shallowest Possible Water Extraction Profile: A Null Model for Global Root Distributions. <i>Vadose Zone Journal</i> , 2008, 7, 1119-1124.	1.3	107
494	Tillage Effects on Soil Carbon Balance in a Semiarid Agroecosystem. <i>Soil Science Society of America Journal</i> , 2008, 72, 1140-1149.	1.2	46
495	Spatial scaling of net primary productivity using subpixel landcover information. <i>Proceedings of SPIE</i> , 2008, , .	0.8	1
496	The sensitivity of Swiss forest soils to acidification and the risk of aluminum toxicity. <i>Journal of Plant Nutrition and Soil Science</i> , 2008, 171, 605-612.	1.1	8
497	Soil and plant communities development and ecological effectiveness of reclamation on a sand mine cast. <i>Journal of Forest Science</i> , 2008, 54, 554-565.	0.5	42
498	Development and Application of the Forestry Version of DRAINMOD-NII. , 2009, , .		2
499	Prairie and Turfgrass Buffer Strips Modify Water Infiltration and Leachate Resulting from Impervious Surface Runoff. <i>Crop Science</i> , 2009, 49, 658-670.	0.8	12
500	An outlook on the Sub-Saharan Africa carbon balance. <i>Biogeosciences</i> , 2009, 6, 2193-2205.	1.3	72
501	Consequences of Environmental Service Payments for Forest Retention and Recruitment in a Costa Rican Biological Corridor. <i>Ecology and Society</i> , 2009, 14, .	1.0	71
502	Consequences of Conventional versus Organic farming on Soil Carbon: Results from a 27-Year Field Experiment. <i>Agronomy Journal</i> , 2009, 101, 1204-1218.	0.9	79
503	Response of Root Properties to Tripartite Symbiosis between Lucerne (<i>Medicago sativa</i> L.), Rhizobia and Mycorrhiza Under Dry Organic Farming Conditions. <i>American Journal of Agricultural and Biological Science</i> , 2009, 4, 266-277.	0.9	16

#	ARTICLE	IF	CITATIONS
504	Carbon Cycling in Northern Peatlands. Geophysical Monograph Series, 2009, , .	0.1	31
505	Transgenic Strategies for Improved Drought Tolerance in Legumes of Semi-Arid Tropics. Journal of Crop Improvement, 2009, 24, 92-111.	0.9	15
506	Feedbacks of windthrow for Norway spruce and Scots pine stands under changing climate. Environmental Research Letters, 2009, 4, 045019.	2.2	27
507	On the Efficacy of Combining Thermal and Microwave Satellite Data as Observational Constraints for Root-Zone Soil Moisture Estimation. Journal of Hydrometeorology, 2009, 10, 1109-1127.	0.7	27
508	Soil Moisture Feedbacks on Convection Triggers: The Role of Soil-Plant Hydrodynamics. Journal of Hydrometeorology, 2009, 10, 96-112.	0.7	83
509	A spatially explicit hydro-ecological modeling framework (BEPS-TerrainLab V2.0): Model description and test in a boreal ecosystem in Eastern North America. Journal of Hydrology, 2009, 367, 200-216.	2.3	64
510	Integrated Ecohydrologic Research and Hydroinformatics. Journal of Contemporary Water Research and Education, 2009, 142, 16-24.	0.7	0
511	Optimization of ecosystem model parameters using spatio-temporal soil moisture information. Ecological Modelling, 2009, 220, 2121-2136.	1.2	19
512	Simulated soil water storage effects on streamflow generation in a mountainous snowmelt environment, Idaho, USA. Hydrological Processes, 2009, 23, 858-873.	1.1	96
513	Ecohydrology of a semi-arid forest: partitioning among water balance components and its implications for predicted precipitation changes. Ecohydrology, 2010, 3, 143-154.	1.1	93
514	Effects of climate change on the coupled dynamics of water and vegetation in drylands. Ecohydrology, 2010, 3, 226-237.	1.1	77
515	Horizontal heterogeneity in the frequency of plant-available water with woodland intercanopy canopy vegetation patch type rivals that occurring vertically by soil depth. Ecohydrology, 2009, 2, 503-519.	1.1	68
516	Enhanced application of root-reinforcement algorithms for bank-stability modeling. Earth Surface Processes and Landforms, 2009, 34, 471-480.	1.2	103
517	Responses of CO2 Exchange and Primary Production of the Ecosystem Components to Environmental Changes in a Mountain Peatland. Ecosystems, 2009, 12, 590-603.	1.6	45
518	Effects of Water Table Drawdown on Root Production and Aboveground Biomass in a Boreal Bog. Ecosystems, 2009, 12, 1268-1282.	1.6	73
519	A scaling analysis of soil moisture-precipitation interactions in a regional climate model. Theoretical and Applied Climatology, 2009, 98, 221-235.	1.3	23
520	Biomass and morphology of fine roots in temperate broad-leaved forests differing in tree species diversity: is there evidence of below-ground overyielding?. Oecologia, 2009, 161, 99-111.	0.9	131
521	Assessing topographic patterns in moisture use and stress using a water balance approach. Landscape Ecology, 2009, 24, 391-403.	1.9	58

#	ARTICLE	IF	CITATIONS
522	A comparative study of dissolved organic carbon transport and stabilization in California forest and grassland soils. <i>Biogeochemistry</i> , 2009, 92, 41-59.	1.7	51
523	Spatial distribution of fine-roots in boreal forests in eastern Sweden. <i>Plant and Soil</i> , 2009, 318, 1-14.	1.8	34
524	Woody plant encroachment impacts on soil carbon and microbial processes: results from a hierarchical Bayesian analysis of soil incubation data. <i>Plant and Soil</i> , 2009, 320, 153-167.	1.8	41
525	Desirable plant root traits for protecting natural and engineered slopes against landslides. <i>Plant and Soil</i> , 2009, 324, 1-30.	1.8	513
526	Dynamics of fine root distribution after establishment of monospecific and mixed-species plantations of <i>Eucalyptus grandis</i> and <i>Acacia mangium</i> . <i>Plant and Soil</i> , 2009, 325, 305-318.	1.8	32
527	A comparison of soil organic carbon stocks between residential turf grass and native soil. <i>Urban Ecosystems</i> , 2009, 12, 45-62.	1.1	185
528	Response of root distribution of <i>Haloxylon ammodendron</i> seedlings to irrigation amounts in the hinterlands of the Taklimakan Desert, China. <i>Frontiers of Forestry in China: Selected Publications From Chinese Universities</i> , 2009, 4, 60-67.	0.2	10
529	Root distributions in tillage layers and yields of pumpkin and oil sunflower in an intercropping system. <i>Frontiers of Agriculture in China</i> , 2009, 3, 388-396.	0.2	2
530	Variations in soil properties and their effect on subsurface biomass distribution in four alpine meadows of the hinterland of the Tibetan Plateau of China. <i>Environmental Geology</i> , 2009, 57, 1881-1891.	1.2	15
531	Depletion of soil organic carbon and nitrogen under <i>Pinus taeda</i> plantations in Southern Brazilian grasslands (<i>Campos</i>). <i>European Journal of Soil Science</i> , 2009, 60, 347-359.	1.8	41
532	Comprehensive assessment of carbon productivity, allocation and storage in three Amazonian forests. <i>Global Change Biology</i> , 2009, 15, 1255-1274.	4.2	280
533	Ecosystem feedbacks and cascade processes: understanding their role in the responses of Arctic and alpine ecosystems to environmental change. <i>Global Change Biology</i> , 2009, 15, 1153-1172.	4.2	344
534	Asynchronicity in root and shoot phenology in grasses and woody plants. <i>Global Change Biology</i> , 2010, 16, 2241-2251.	4.2	89
535	Integrating plant-soil interactions into global carbon cycle models. <i>Journal of Ecology</i> , 2009, 97, 851-863.	1.9	233
536	The role of plant interactions in the restoration of degraded ecosystems: a meta-analysis across life-forms and ecosystems. <i>Journal of Ecology</i> , 2009, 97, 1202-1214.	1.9	374
537	Above- and belowground biomass allocation in Tibetan grasslands. <i>Journal of Vegetation Science</i> , 2009, 20, 177-184.	1.1	264
538	Fine Root Distribution in a Lower Montane Rain Forest of Panama. <i>Biotropica</i> , 2009, 41, 312-318.	0.8	11
539	Differences in soil carbon storage due to mowing, burning and uncontrolled management practices of a grassland at the foot of Mount Sanbe, Japan. <i>Grassland Science</i> , 2009, 55, 175-180.	0.6	3

#	ARTICLE	IF	CITATIONS
540	Exploration of hitherto-uncultured bacteria from the rhizosphere. <i>FEMS Microbiology Ecology</i> , 2009, 69, 313-328.	1.3	93
541	Global patterns in belowground communities. <i>Ecology Letters</i> , 2009, 12, 1238-1249.	3.0	957
542	Metabolic origin of the $\delta^{13}C$ of respired CO_2 in roots of <i>Phaseolus vulgaris</i> . <i>New Phytologist</i> , 2009, 181, 387-399.	3.5	64
543	Response in root morphology and nutrient contents of <i>Myriophyllum spicatum</i> to sediment type. <i>Ecological Engineering</i> , 2009, 35, 1264-1270.	1.6	35
544	Simulating daily, monthly and annual water balances in a land surface model using alternative root water uptake schemes. <i>Advances in Water Resources</i> , 2009, 32, 1444-1459.	1.7	25
545	Contribution des couches holorganiques à la nutrition en phosphore : données expérimentales. <i>Annals of Forest Science</i> , 2009, 66, 510-510.	0.8	45
546	Root distribution and soil moisture retrieval in perennial and annual energy crops in Northern Italy. <i>Agriculture, Ecosystems and Environment</i> , 2009, 132, 252-259.	2.5	168
547	Influence of Environmental Variability on Root Dynamics in Northern Forests. <i>Critical Reviews in Plant Sciences</i> , 2009, 28, 179-197.	2.7	138
548	Long-term biogenic soil mixing and transport in a hilly, loess-mantled landscape: Blue Mountains of southeastern Washington. <i>Catena</i> , 2009, 79, 170-178.	2.2	24
549	Below- and above-ground biomass and net primary production in a paleotropical natural forest (Sulawesi, Indonesia) as compared to neotropical forests. <i>Forest Ecology and Management</i> , 2009, 258, 1904-1912.	1.4	86
550	Linking post-fire regenerative strategy and leaf nutrient content in Mediterranean woody plants. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2009, 11, 219-229.	1.1	20
551	Soil carbon and nitrogen in a Great Basin pinyon-juniper woodland: Influence of vegetation, burning, and time. <i>Journal of Arid Environments</i> , 2009, 73, 472-479.	1.2	32
552	Grazing effects on belowground C and N stocks along a network of cattle exclosures in temperate and subtropical grasslands of South America. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	1.9	100
553	Community assembly and shifts in plant trait distributions across an environmental gradient in coastal California. <i>Ecological Monographs</i> , 2009, 79, 109-126.	2.4	940
554	The global distribution of net primary production: resolving the paradox. <i>Ecological Monographs</i> , 2009, 79, 343-377.	2.4	280
555	Old-Growth Forests. <i>Ecological Studies</i> , 2009, , .	0.4	59
556	Estimating Root Biomass and Distribution After Fire in a Great Basin Woodland Using Cores and Pits. <i>Western North American Naturalist</i> , 2009, 69, 459-468.	0.2	17
557	Variations in above- and below-ground vascular plant biomass and water table on a temperate ombrotrophic peatland. <i>Botany</i> , 2009, 87, 845-853.	0.5	61

#	ARTICLE	IF	CITATIONS
558	Effects of Native Grass Restoration Management on Above- and Belowground Pasture Production and Forage Quality. <i>Agroecology and Sustainable Food Systems</i> , 2009, 33, 512-527.	0.9	12
559	Topographic and ecologic controls on root reinforcement. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	145
560	Spatially explicit simulation of hydrologically controlled carbon and nitrogen cycles and associated feedback mechanisms in a boreal ecosystem. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	20
561	Field evidence of a negative correlation between saturated hydraulic conductivity and soil carbon in a sandy soil. <i>Water Resources Research</i> , 2009, 45, .	1.7	39
562	Using pedotransfer functions in vadose zone models for estimating groundwater recharge in semiarid regions. <i>Water Resources Research</i> , 2009, 45, .	1.7	58
563	Stochastic soil water dynamics of phreatophyte vegetation with dimorphic root systems. <i>Water Resources Research</i> , 2009, 45, .	1.7	19
564	Aboveground overyielding in grassland mixtures is associated with reduced biomass partitioning to belowground organs. <i>Ecology</i> , 2009, 90, 1520-1530.	1.5	117
565	Changes in soil organic carbon under biofuel crops. <i>GCB Bioenergy</i> , 2009, 1, 75-96.	2.5	343
566	The impact of co-occurring tree and grassland species on carbon sequestration and potential biofuel production. <i>GCB Bioenergy</i> , 2009, 1, 392-403.	2.5	10
567	The production, storage, and flow of carbon in Amazonian forests. <i>Geophysical Monograph Series</i> , 2009, , 355-372.	0.1	19
568	Development of allometric relationships for accurate estimation of above- and below-ground biomass in tropical secondary forests in Sarawak, Malaysia. <i>Journal of Tropical Ecology</i> , 2009, 25, 371-386.	0.5	86
569	Sources and sinks of trace gases in Amazonia and the Cerrado. <i>Geophysical Monograph Series</i> , 2009, , 337-354.	0.1	9
570	Observations of long term air entrapment affecting runoff and water table. <i>International Journal of Water</i> , 2009, 5, 140.	0.1	3
571	Irrigation increases moisture recycling and climate feedback. <i>Australian Journal of Water Resources</i> , 2009, 13, 121-134.	1.6	4
572	Seasonal variation in atmospheric relative humidity contributes to explaining seasonal variation in trunk circumference of tropical rain-forest trees in French Guiana. <i>Journal of Tropical Ecology</i> , 2010, 26, 393-405.	0.5	46
573	Harvested perennial grasslands provide ecological benchmarks for agricultural sustainability. <i>Agriculture, Ecosystems and Environment</i> , 2010, 137, 3-12.	2.5	154
574	Long-term impacts of high-input annual cropping and unfertilized perennial grass production on soil properties and belowground food webs in Kansas, USA. <i>Agriculture, Ecosystems and Environment</i> , 2010, 137, 13-24.	2.5	161
575	No-tillage conversion of harvested perennial grassland to annual cropland reduces root biomass, decreases active carbon stocks, and impacts soil biota. <i>Agriculture, Ecosystems and Environment</i> , 2010, 137, 25-32.	2.5	112

#	ARTICLE	IF	CITATIONS
576	Dynamics of fine roots in five Chinese temperate forests. <i>Journal of Plant Research</i> , 2010, 123, 497-507.	1.2	27
577	A comparison of root distribution of three hardwood species grown on a hillside in the Caspian forest, Iran. <i>Journal of Forest Research</i> , 2010, 15, 99-107.	0.7	10
578	Biomass, and carbon and nitrogen pools in a subtropical evergreen broad-leaved forest in eastern China. <i>Journal of Forest Research</i> , 2010, 15, 274-282.	0.7	15
579	Hydraulic lift and tolerance to salinity of semiarid species: consequences for species interactions. <i>Oecologia</i> , 2010, 162, 11-21.	0.9	63
580	Carbon density and distribution of six Chinese temperate forests. <i>Science China Life Sciences</i> , 2010, 53, 831-840.	2.3	34
581	Tree species impact the terrestrial cycle of silicon through various uptakes. <i>Biogeochemistry</i> , 2010, 97, 231-245.	1.7	120
582	Grass seed production in the central Monte desert during successive wet and dry years. <i>Plant Ecology</i> , 2010, 208, 65-75.	0.7	29
583	Spatial patterns of shrub encroachment in neighbouring grassland communities in the Pyrenees: floristic composition heterogeneity drives shrub proliferation rates. <i>Plant Ecology</i> , 2010, 211, 267-278.	0.7	8
584	Biomass accumulation and carbon storage of four different aged <i>Sonneratia apetala</i> plantations in Southern China. <i>Plant and Soil</i> , 2010, 327, 279-291.	1.8	97
585	Root biomass distribution and soil properties of an open woodland on a duplex soil. <i>Plant and Soil</i> , 2010, 327, 377-388.	1.8	45
586	Changes in water relations for <i>Acacia ancistrocarpa</i> on natural and mine-rehabilitation sites in response to an experimental wetting pulse in the Great Sandy Desert. <i>Plant and Soil</i> , 2010, 326, 75-96.	1.8	15
587	Do nutrient-poor soils inhibit development of forests? A nutrient stock analysis. <i>Plant and Soil</i> , 2010, 334, 47-60.	1.8	110
588	Linking root production to aboveground plant characteristics and water table in a temperate bog. <i>Plant and Soil</i> , 2010, 336, 219-231.	1.8	66
589	Variation of surficial soil hydraulic properties across land uses in the southern Blue Ridge Mountains, North Carolina, USA. <i>Journal of Hydrology</i> , 2010, 383, 256-268.	2.3	151
590	Consumptive use and resulting leach-field water budget of a mountain residence. <i>Journal of Hydrology</i> , 2010, 388, 335-349.	2.3	1
591	Belowground carbon allocation patterns in a dry Mediterranean ecosystem: A comparison of two models. <i>Soil Biology and Biochemistry</i> , 2010, 42, 1549-1557.	4.2	50
592	Changes in soil organic carbon dynamics in an Eastern Chinese coastal wetland following invasion by a C4 plant <i>Spartina alterniflora</i> . <i>Soil Biology and Biochemistry</i> , 2010, 42, 1712-1720.	4.2	147
593	Investigating soil moisture-climate interactions in a changing climate: A review. <i>Earth-Science Reviews</i> , 2010, 99, 125-161.	4.0	3,380

#	ARTICLE	IF	CITATIONS
594	A stochastic model for vegetation water stress. <i>Ecohydrology</i> , 2010, 3, 177-188.	1.1	5
595	Quantifying the effects of root reinforcement of Persian Ironwood (<i>Parrotia persica</i>) on slope stability; a case study: Hillslope of Hyrcanian forests, northern Iran. <i>Ecological Engineering</i> , 2010, 36, 1409-1416.	1.6	70
596	Denitrification Potential, Root Biomass, and Organic Matter in Degraded and Restored Urban Riparian Zones. <i>Restoration Ecology</i> , 2010, 18, 113-120.	1.4	99
597	Does life consistently maximise energy intensity?. <i>Biological Reviews</i> , 2010, 85, 859-879.	4.7	20
598	Digging deeper: fine root responses to rising atmospheric CO ₂ concentration in forested ecosystems. <i>New Phytologist</i> , 2010, 186, 346-357.	3.5	231
599	Climate warming and biomass accumulation of terrestrial plants: a meta-analysis. <i>New Phytologist</i> , 2010, 188, 187-198.	3.5	298
600	Wet vs. Dry Season Transpiration in an Amazonian Rain Forest Palm <i>Iriartea deltoidea</i> . <i>Biotropica</i> , 2010, 42, 470-478.	0.8	33
601	Tree Diversity Explains Variation in Ecosystem Function in a Neotropical Forest in Panama. <i>Biotropica</i> , 2010, 42, 638-646.	0.8	47
602	Short-term propagation of rainfall perturbations on terrestrial ecosystems in central California. <i>Applied Vegetation Science</i> , 2010, 13, 146-162.	0.9	18
603	Above- and below-ground plant biomass response to experimental warming in northern Alaska. <i>Applied Vegetation Science</i> , 2010, 13, 378-387.	0.9	35
604	Vegetation type determines heterotrophic respiration in subalpine Australian ecosystems. <i>Global Change Biology</i> , 2010, 16, 209-219.	4.2	31
605	Grass invasion causes rapid increases in ecosystem carbon and nitrogen storage in a semiarid shrubland. <i>Global Change Biology</i> , 2010, 16, 1351-1365.	4.2	95
606	REVIEW: Time lag between photosynthesis and carbon dioxide efflux from soil: a review of mechanisms and controls. <i>Global Change Biology</i> , 2010, 16, 3386-3406.	4.2	561
607	Soil nutrient heterogeneity modulates ecosystem responses to changes in the identity and richness of plant functional groups. <i>Journal of Ecology</i> , 2011, 99, 551-562.	1.9	58
608	The Role of Riparian Vegetation in Protecting and Improving Chemical Water Quality in Streams. <i>Journal of the American Water Resources Association</i> , 2010, 46, 261-277.	1.0	358
609	Large-scale pattern of biomass partitioning across China's grasslands. <i>Global Ecology and Biogeography</i> , 2010, 19, 268-277.	2.7	210
610	Root Distribution of Temperate Forage Species Subjected to Water and Nitrogen Stress. <i>Crop Science</i> , 2010, 50, 2178-2185.	0.8	55
611	Does Time since Fire Explain Plant Biomass Allocation in the Florida, USA, Scrub Ecosystem?. <i>Fire Ecology</i> , 2010, 6, 13-25.	1.1	74

#	ARTICLE	IF	CITATIONS
612	Tree Injury and Mortality in Fires: Developing Process-Based Models. <i>Fire Ecology</i> , 2010, 6, 55-79.	1.1	50
613	Root distribution and yield responses of wheat/maize intercropping to alternate irrigation in the arid areas of northwest China. <i>Plant, Soil and Environment</i> , 2010, 56, 253-262.	1.0	55
614	Tree Encroachment Impacts Carbon Dynamics in a Sand Prairie in Wisconsin. <i>Soil Science Society of America Journal</i> , 2010, 74, 956-968.	1.2	13
615	A global model of carbon, nitrogen and phosphorus cycles for the terrestrial biosphere. <i>Biogeosciences</i> , 2010, 7, 2261-2282.	1.3	542
616	Phenological Characterization of Desert Sky Island Vegetation Communities with Remotely Sensed and Climate Time Series Data. <i>Remote Sensing</i> , 2010, 2, 388-415.	1.8	47
617	Quantifying and isolating stable soil organic carbon using long-term bare fallow experiments. <i>Biogeosciences</i> , 2010, 7, 3839-3850.	1.3	118
618	Ecohydrologic controls on vegetation density and evapotranspiration partitioning across the climatic gradients of the central United States. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 2121-2139.	1.9	13
619	Evapotranspiration Partitioning in a Semiarid Woodland: Ecohydrologic Heterogeneity and Connectivity of Vegetation Patches. <i>Vadose Zone Journal</i> , 2010, 9, 561-572.	1.3	49
620	Modeling the monthly mean soil-water balance with a statistical-dynamical ecohydrology model as coupled to a two-component canopy model. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 2099-2120.	1.9	15
621	Summer drought reduces total and litter-derived soil CO ₂ effluxes in temperate grassland – clues from a ¹³ C litter addition experiment. <i>Biogeosciences</i> , 2010, 7, 1031-1041.	1.3	41
622	Quantifying wetland methane emissions with process-based models of different complexities. <i>Biogeosciences</i> , 2010, 7, 3817-3837.	1.3	53
623	Estimation of root biomass based on excavation of individual root systems in a primary dipterocarp forest in Pasoh Forest Reserve, Peninsular Malaysia. <i>Journal of Tropical Ecology</i> , 2010, 26, 271-284.	0.5	115
624	Estimates and relationships between aboveground and belowground resource exchange surface areas in a Sitka spruce managed forest. <i>Tree Physiology</i> , 2010, 30, 705-714.	1.4	16
625	Root growth models: towards a new generation of continuous approaches. <i>Journal of Experimental Botany</i> , 2010, 61, 2131-2143.	2.4	132
626	Variability in Harvest Index of Grain Crops and Potential Significance for Carbon Accounting. <i>Advances in Agronomy</i> , 2010, 105, 173-219.	2.4	150
627	Die-back of kiasat (<i>Pterocarpus angolensis</i>) in southern Africa: a cause for concern?. <i>Southern Forests</i> , 2010, 72, 121-132.	0.2	5
628	Terrestrial sequestration of carbon dioxide (CO ₂)., 2010, , 271-303.		3
629	Estimating Evaporation in a Prairie Landscape under Drought Conditions. <i>Canadian Water Resources Journal</i> , 2010, 35, 173-186.	0.5	23

#	ARTICLE	IF	CITATIONS
630	Looking deeper into the soil: biophysical controls and seasonal lags of soil CO ₂ production and efflux. <i>Ecological Applications</i> , 2010, 20, 1569-1582.	1.8	120
631	Fine Root Biomass, Production, Turnover Rates, and Nutrient Contents in Boreal Forest Ecosystems in Relation to Species, Climate, Fertility, and Stand Age: Literature Review and Meta-Analyses. <i>Critical Reviews in Plant Sciences</i> , 2010, 29, 204-221.	2.7	355
632	Mineral Transformations by Mycorrhizal Fungi. <i>Geomicrobiology Journal</i> , 2010, 27, 609-623.	1.0	22
633	Root seasonal pattern, spatial distribution, and C:N ratio of matgrass pasture (<i>Nardus stricta</i> L.) in the Lombardy Prealps. <i>Plant Biosystems</i> , 2010, 144, 463-470.	0.8	8
634	Hysteresis of soil moisture spatial heterogeneity and the "homogenizing" effect of vegetation. <i>Water Resources Research</i> , 2010, 46, .	1.7	139
635	Land surface modeling inside the Biosphere 2 tropical rain forest biome. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	16
636	Ecohydrological feedbacks between salt accumulation and vegetation dynamics: Role of vegetation-groundwater interactions. <i>Water Resources Research</i> , 2010, 46, .	1.7	51
637	Below-ground carbon stocks in intact and transformed subtropical thicket landscapes in semi-arid South Africa. <i>Journal of Arid Environments</i> , 2010, 74, 93-100.	1.2	30
638	On the run for water " Root growth of two phreatophytes in the Taklamakan Desert. <i>Journal of Arid Environments</i> , 2010, 74, 1604-1615.	1.2	20
639	Long-term trends of phosphorus nutrition and topsoil phosphorus stocks in unfertilized and fertilized Scots pine (<i>Pinus sylvestris</i>) stands at two sites in Southern Germany. <i>Forest Ecology and Management</i> , 2010, 259, 1141-1150.	1.4	46
640	Ecosystem carbon storage and partitioning in a tropical seasonal forest in Southwestern China. <i>Forest Ecology and Management</i> , 2010, 260, 1798-1803.	1.4	46
641	Effects of sample size and position from monolith and core methods on the estimation of total root biomass in a temperate grassland ecosystem in Inner Mongolia. <i>Geoderma</i> , 2010, 155, 262-268.	2.3	25
642	Habitat productivity influences root mass vertical distribution in grazed Mediterranean ecosystems. <i>Acta Oecologica</i> , 2010, 36, 377-382.	0.5	10
643	A comparative study of a multilayer and a productivity (light-use) efficiency land-surface model over different temporal scales. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 182-195.	1.9	12
644	A study of root water uptake of crops indicated by hydrogen and oxygen stable isotopes: A case in Shanxi Province, China. <i>Agricultural Water Management</i> , 2010, 97, 475-482.	2.4	119
645	Shifts in plant respiration and carbon use efficiency at a large-scale drought experiment in the eastern Amazon. <i>New Phytologist</i> , 2010, 187, 608-621.	3.5	118
646	Carbon cost of plant nitrogen acquisition: A mechanistic, globally applicable model of plant nitrogen uptake, retranslocation, and fixation. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	1.9	182
647	Carbon Sequestration in Forest Ecosystems. , 2010, , .		86

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648	Tropical Rainforests and Agroforests under Global Change. <i>Environmental Science and Engineering</i> , 2010, , .	0.1	14
649	Aboveground and Belowground Carbon Pools After Fire in Mountain Big Sagebrush Steppe. <i>Rangeland Ecology and Management</i> , 2010, 63, 187-196.	1.1	23
650	Soil Carbon Pools in California's Annual Grassland Ecosystems. <i>Rangeland Ecology and Management</i> , 2010, 63, 128-136.	1.1	58
651	Influence of Prescribed Fire on Ecosystem Biomass, Carbon, and Nitrogen in a Pinyon Juniper Woodland. <i>Rangeland Ecology and Management</i> , 2010, 63, 197-202.	1.1	16
652	<i>Bromus inermis</i> invasion of a native grassland: diversity and resource reduction. <i>Botany</i> , 2011, 89, 157-164.	0.5	36
653	Seasonal contributions of vegetation types to suburban evapotranspiration. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	80
654	Woody plant proliferation in North American drylands: A synthesis of impacts on ecosystem carbon balance. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	218
655	Global monthly water stress: 2. Water demand and severity of water stress. <i>Water Resources Research</i> , 2011, 47, .	1.7	342
656	Comparative hydrology across AmeriFlux sites: The variable roles of climate, vegetation, and groundwater. <i>Water Resources Research</i> , 2011, 47, .	1.7	96
657	Catchment hydrological responses to forest harvest amount and spatial pattern. <i>Water Resources Research</i> , 2011, 47, .	1.7	44
658	Local evaluation of the Interaction between Soil Biosphere Atmosphere soil multilayer diffusion scheme using four pedotransfer functions. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	136
659	Prairie ecosystems and the carbon problem. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 407-413.	1.9	56
660	The Behavioral Ecology of Nutrient Foraging by Plants. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2011, 42, 289-311.	3.8	185
661	<i>Principles of Terrestrial Ecosystem Ecology</i> . , 2011, , .		860
662	<i>Water and Energy Balance</i> . , 2011, , 93-122.		1
663	Priming Effects in Relation to Soil Conditions – Mechanisms. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 657-667.	0.1	14
664	Strong seasonal variations in net ecosystem CO ₂ exchange of a tropical pasture and afforestation in Panama. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 1139-1151.	1.9	38
665	Drought-sensitivity ranking of deciduous tree species based on thermal imaging of forest canopies. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 1632-1640.	1.9	121

#	ARTICLE	IF	CITATIONS
666	Factors causing variation in fine root biomass in forest ecosystems. <i>Forest Ecology and Management</i> , 2011, 261, 265-277.	1.4	194
667	Fine root production and turnover in forest ecosystems in relation to stand and environmental characteristics. <i>Forest Ecology and Management</i> , 2011, 262, 2008-2023.	1.4	242
668	Functional morphology and microclimate of <i>Festuca orthophylla</i> , the dominant tall tussock grass in the Andean Altiplano. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2011, 206, 387-396.	0.6	30
669	How lateral dimension of roots determines aboveground self-thinning. <i>Ecological Complexity</i> , 2011, 8, 310-312.	1.4	2
670	Analyzing relationships among water uptake patterns, rootlet biomass distribution and soil water content profile in a subalpine shrubland using water isotopes. <i>European Journal of Soil Biology</i> , 2011, 47, 380-386.	1.4	45
671	Carbon pools in an arid shrubland in Chile under natural and afforested conditions. <i>Journal of Arid Environments</i> , 2011, 75, 29-37.	1.2	45
672	The spatial pattern of grasses in relation to tree effects in an arid savanna community: Inferring the relative importance of canopy and root effect. <i>Journal of Arid Environments</i> , 2011, 75, 953-959.	1.2	8
673	Molecular identification of roots from a grassland community using size differences in fluorescently labelled PCR amplicons of three cpDNA regions. <i>Molecular Ecology Resources</i> , 2011, 11, 185-195.	2.2	23
674	Trophic Interactions in Coastal and Estuarine Mangrove Forest Ecosystems. , 2011, , 43-93.		22
675	Biomass carbon storage and net primary production in different habitats of Hunshandake Sandland, China. <i>Acta Ecologica Sinica</i> , 2011, 31, 217-224.	0.9	4
676	Mechanisms of vegetation uprooting by flow in alluvial non-cohesive sediment. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 1615-1627.	1.9	83
677	Carbon dioxide fluxes over an ancient broadleaved deciduous woodland in southern England. <i>Biogeosciences</i> , 2011, 8, 1595-1613.	1.3	51
678	Quantifying the impact of groundwater depth on evapotranspiration in a semi-arid grassland region. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 787-806.	1.9	104
680	Soil Carbon Stock in Cambodian Monsoon Forests. <i>Japan Agricultural Research Quarterly</i> , 2011, 45, 309-316.	0.1	15
681	Modeling Apparent Nitrogen Mineralization under Field Conditions Using Regressions and Artificial Neural Networks. <i>Agronomy Journal</i> , 2011, 103, 1159-1168.	0.9	21
682	Quantity, vertical distribution and morphology of fine roots in Norway spruce stands with different stem density. <i>Plant Root</i> , 2011, 5, 46-55.	0.3	15
683	Internal and external green-blue agricultural water footprints of nations, and related water and land savings through trade. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 1641-1660.	1.9	183
684	Vertical root distribution in single-crop and intercropping agricultural systems in Central Kenya. <i>Journal of Plant Nutrition and Soil Science</i> , 2011, 174, 742-749.	1.1	10

#	ARTICLE	IF	CITATIONS
685	Influence of Topography on the Colonization of Subalpine Grasslands by the Thorny Cushion Dwarf <i>Echinopartum horridum</i> . <i>Arctic, Antarctic, and Alpine Research</i> , 2011, 43, 601-611.	0.4	25
686	Fine root mass and fine root production in tropical moist forests as dependent on soil, climate, and elevation. , 2011, , 428-444.		6
687	Understanding plant rooting patterns in semi-arid systems: an integrated model analysis of climate, soil type and plant biomass. <i>Global Ecology and Biogeography</i> , 2011, 20, 331-342.	2.7	49
688	Soil respiration: implications of the plant-soil continuum and respiration chamber collar insertion depth on measurement and modelling of soil CO ₂ efflux rates in three ecosystems. <i>European Journal of Soil Science</i> , 2011, 62, 82-94.	1.8	96
689	Functional specialization of Eucalyptus fine roots: contrasting potential uptake rates for nitrogen, potassium and calcium tracers at varying soil depths. <i>Functional Ecology</i> , 2011, 25, 996-1006.	1.7	76
690	Elevation effects on the carbon budget of tropical mountain forests (S Ecuador): the role of the belowground compartment. <i>Global Change Biology</i> , 2011, 17, 2211-2226.	4.2	160
691	Impacts of multiple extreme winter warming events on sub-Arctic heathland: phenology, reproduction, growth, and CO ₂ flux responses. <i>Global Change Biology</i> , 2011, 17, 2817-2830.	4.2	163
692	Isometric biomass partitioning pattern in forest ecosystems: evidence from temporal observations during stand development. <i>Journal of Ecology</i> , 2011, 99, 431-437.	1.9	19
693	Transitory effects of elevated atmospheric CO ₂ on fine root dynamics in an arid ecosystem do not increase long-term soil carbon input from fine root litter. <i>New Phytologist</i> , 2011, 190, 953-967.	3.5	33
694	Effects of above- and below-ground competition from shrubs on photosynthesis, transpiration and growth in <i>Quercus robur</i> L. seedlings. <i>Environmental and Experimental Botany</i> , 2011, , .	2.0	6
695	Coupling a two-tip linear mixing model with a $\delta^{18}O$ plot to determine water sources consumed by maize during different growth stages. <i>Field Crops Research</i> , 2011, 123, 196-205.	2.3	30
696	Validating modelled NPP using statistical yield data. <i>Biomass and Bioenergy</i> , 2011, 35, 4665-4674.	2.9	17
697	Linking soil biodiversity and vegetation: Implications for a changing planet. <i>American Journal of Botany</i> , 2011, 98, 517-527.	0.8	87
698	Comparing carbon fluxes between different stages of secondary succession of a karst grassland. <i>Agriculture, Ecosystems and Environment</i> , 2011, 140, 199-207.	2.5	32
699	Co-assessment of biomass and soil organic carbon stocks in a future reservoir area located in Southeast Asia. <i>Environmental Monitoring and Assessment</i> , 2011, 173, 723-741.	1.3	29
700	The temperature responses of soil respiration in deserts: a seven desert synthesis. <i>Biogeochemistry</i> , 2011, 103, 71-90.	1.7	101
701	Modeling soil thermal and hydrological dynamics and changes of growing season in Alaskan terrestrial ecosystems. <i>Climatic Change</i> , 2011, 107, 481-510.	1.7	25
702	Deep soil organic matter—a key but poorly understood component of terrestrial C cycle. <i>Plant and Soil</i> , 2011, 338, 143-158.	1.8	1,239

#	ARTICLE	IF	CITATIONS
703	Temporal changes in soil organic C under Mediterranean shrublands and grasslands: impact of fire and drought. <i>Plant and Soil</i> , 2011, 338, 289-300.	1.8	27
704	Comprehensive assessments of root biomass and production in a <i>Kobresia humilis</i> meadow on the Qinghai-Tibetan Plateau. <i>Plant and Soil</i> , 2011, 338, 497-510.	1.8	43
705	Spatial analysis of fine root distribution on a recently constructed ecosystem in a water-limited environment. <i>Plant and Soil</i> , 2011, 344, 255-272.	1.8	46
706	Plant functional group removal alters root biomass and nutrient cycling in a typical steppe in Inner Mongolia, China. <i>Plant and Soil</i> , 2011, 346, 133-144.	1.8	18
707	Spatial analysis of fine root distribution on a recently constructed ecosystem in a water-limited environment. <i>Plant and Soil</i> , 2011, 348, 471-489.	1.8	8
708	Belowground DNA-based techniques: untangling the network of plant root interactions. <i>Plant and Soil</i> , 2011, 348, 115-121.	1.8	43
709	Assessment of Critical Loads in Tropical Sal (<i>Shorea robusta</i> Gaertn. F.) Forests of Doon Valley Himalayas, India. <i>Water, Air, and Soil Pollution</i> , 2011, 218, 235-264.	1.1	11
710	Root architecture of riparian trees: river cut-banks provide natural hydraulic excavation, revealing that cottonwoods are facultative phreatophytes. <i>Trees - Structure and Function</i> , 2011, 25, 907-917.	0.9	55
711	Afforestation of Tropical Pasture Only Marginally Affects Ecosystem-Scale Evapotranspiration. <i>Ecosystems</i> , 2011, 14, 1264-1275.	1.6	18
712	A multimodel ensemble-based Kalman filter for the retrieval of soil moisture profiles. <i>Advances in Atmospheric Sciences</i> , 2011, 28, 195-206.	1.9	7
713	Root biomass distribution in alpine ecosystems of the northern Tibetan Plateau. <i>Environmental Earth Sciences</i> , 2011, 64, 1911-1919.	1.3	99
714	Modeling tree root diameter and biomass by ground-penetrating radar. <i>Science China Earth Sciences</i> , 2011, 54, 711-719.	2.3	62
715	Forest productivity under climate change: a checklist for evaluating model studies. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2011, 2, 332-355.	3.6	127
716	Potential for greenhouse gas emissions from soil carbon stock following biofuel cultivation on degraded lands. <i>Land Degradation and Development</i> , 2011, 22, 395-409.	1.8	17
717	Effects of lateral hydrological processes on photosynthesis and evapotranspiration in a boreal ecosystem. <i>Ecohydrology</i> , 2011, 4, 394-410.	1.1	24
718	Direct measurement of groundwater uptake through tree roots in a cave. <i>Ecohydrology</i> , 2011, 4, 644-649.	1.1	19
719	Water use patterns of three species in subalpine forest, Southwest China: the deuterium isotope approach. <i>Ecohydrology</i> , 2011, 4, 236-244.	1.1	49
720	Effects of area underâ€œestimations of sloped mountain terrain on simulated hydrological behaviour: a case study using the ACURU model. <i>Hydrological Processes</i> , 2011, 25, 1212-1227.	1.1	9

#	ARTICLE	IF	CITATIONS
721	The carbon sequestration capacity in crop production system in North China Plain. , 2011, , .		0
722	Variation in soil water uptake and its effect on plant water status in <i>Juglans regia</i> L. during dry and wet seasons. <i>Tree Physiology</i> , 2011, 31, 1378-1389.	1.4	60
723	Changes in hydrology and salinity accompanying a century of agricultural conversion in Argentina. , 2011, 21, 2367-2379.		47
724	Linking hydraulic conductivity and photosynthesis to water-source partitioning in trees versus seedlings. <i>Tree Physiology</i> , 2011, 31, 763-773.	1.4	30
725	Breeding crop plants with deep roots: their role in sustainable carbon, nutrient and water sequestration. <i>Annals of Botany</i> , 2011, 108, 407-418.	1.4	313
726	Rooting depth explains [CO ₂] x drought interaction in <i>Eucalyptus saligna</i> . <i>Tree Physiology</i> , 2011, 31, 922-931.	1.4	57
727	Positive feedbacks amplify rates of woody encroachment in mesic tallgrass prairie. <i>Ecosphere</i> , 2011, 2, art121.	1.0	91
728	The carbon balance of Africa: synthesis of recent research studies. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 2038-2057.	1.6	141
729	Allometric patterns of below-ground biomass in Mediterranean grasslands. <i>Plant Biosystems</i> , 2011, 145, 584-595.	0.8	9
730	Simulating net primary production and soil-surface CO ₂ flux of temperate forests in Northeastern China. <i>Scandinavian Journal of Forest Research</i> , 2011, 26, 30-39.	0.5	6
731	An Artificial Neural Network Approach for Predicting Soil Carbon Budget in Agroecosystems. <i>Soil Science Society of America Journal</i> , 2011, 75, 965-975.	1.2	31
732	Uncertainties in carbon residence time and NPP-driven carbon uptake in terrestrial ecosystems of the conterminous USA: a Bayesian approach. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 64, 17223.	0.8	24
733	Differences in Soil Properties and Vegetation Cover in an Arid Environment Revegetated with <i>Atriplex lentiformis</i> : A Case Study. <i>Arid Land Research and Management</i> , 2012, 26, 355-364.	0.6	0
734	Multi-variable verification of hydrological processes in the upper North Saskatchewan River basin, Alberta, Canada. <i>Hydrological Sciences Journal</i> , 2012, 57, 84-102.	1.2	2
735	“The Changing Model of Soil” Revisited. <i>Soil Science Society of America Journal</i> , 2012, 76, 766-778.	1.2	130
736	Biases and Errors Associated with Different Root Production Methods and Their Effects on Field Estimates of Belowground Net Primary Production. , 2012, , 303-339.		28
738	Large-scale sequestration of atmospheric carbon via plant roots in natural and agricultural ecosystems: why and how. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 1589-1597.	1.8	217
739	Spatio-temporal patterns of the area experiencing negative vegetation growth anomalies in China over the last three decades. <i>Environmental Research Letters</i> , 2012, 7, 035701.	2.2	65

#	ARTICLE	IF	CITATIONS
740	Patterns of root respiration rates and morphological traits in 13 tree species in a tropical forest. <i>Tree Physiology</i> , 2012, 32, 303-312.	1.4	75
741	How deep must we dig? Sampling depth effects on root biomass assessments in Mediterranean riparian buffers. <i>Plant Biosystems</i> , 2012, 146, 413-418.	0.8	5
742	Fine-root seasonal pattern, production and turnover rate of European beech (<i>Fagus sylvatica</i> L.) stands in Italy Prealps: Possible implications of coppice conversion to high forest. <i>Plant Biosystems</i> , 2012, 146, 1012-1022.	0.8	45
743	MAESPA: a model to study interactions between water limitation, environmental drivers and vegetation function at tree and stand levels, with an example application to [CO ₂ >2 <sub>2] – drought interactions. <i>Geoscientific Model Development</i> , 2012, 5, 919-940.	1.3	134
744	Land-Cover Change in Western New York: Implications for Soil Carbon Dynamics. <i>Northeastern Naturalist</i> , 2012, 19, 89-100.	0.1	0
745	Links Between Root Length Density Profiles and Models of the Root System Architecture. <i>Vadose Zone Journal</i> , 2012, 11, vzj2011.0152.	1.3	17
746	Incorporation of Soil Bulk Density in Simulating Root Distribution of Winter Wheat and Maize in Two Contrasting Soils. <i>Soil Science Society of America Journal</i> , 2012, 76, 638-647.	1.2	29
747	Uncertainties of Water Fluxes in Soil–Vegetation–Atmosphere Transfer Models: Inverting Surface Soil Moisture and Evapotranspiration Retrieved from Remote Sensing. <i>Vadose Zone Journal</i> , 2012, 11, vzj2011.0167.	1.3	24
748	Types of Plant Roots, Their Measurements, and Associations with Yield. , 2012, , 1-54.		1
749	Bioretention Design for Xeric Climates Based on Ecological Principles ¹ . <i>Journal of the American Water Resources Association</i> , 2012, 48, 1178-1190.	1.0	28
750	Ecological feedbacks between permafrost and vegetation dynamics. <i>Advances in Water Resources</i> , 2012, 49, 1-12.	1.7	20
752	Effects of gauge length and strain rate on the tensile strength of tree roots. <i>Trees - Structure and Function</i> , 2012, 26, 1577-1584.	0.9	30
753	Colonization and community structure of root-associated microorganisms of <i>Sabina vulgaris</i> with soil depth in a semiarid desert ecosystem with shallow groundwater. <i>Mycorrhiza</i> , 2012, 22, 419-428.	1.3	18
754	The influence of stoniness and canopy properties on soil water content distribution: simulation of water movement in forest stony soil. <i>European Journal of Forest Research</i> , 2012, 131, 1727-1735.	1.1	27
755	Root mass distribution patterns under standardised conditions in species of <i>Chionochloa</i> and <i>Festuca</i> from New Zealand. <i>Acta Ecologica Sinica</i> , 2012, 32, 189-194.	0.9	2
756	Spectral responses to plant available soil moisture in a Californian grassland. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2012, 19, 31-44.	1.4	30
757	Does Shrub Removal Increase Groundwater Recharge in Southwestern Texas Semiarid Rangelands?. <i>Rangeland Ecology and Management</i> , 2012, 65, 1-10.	1.1	24
758	Conversion of Tallgrass Prairie to Woodland: Consequences for Carbon and Nitrogen Cycling. <i>American Midland Naturalist</i> , 2012, 167, 307-321.	0.2	14

#	ARTICLE	IF	CITATIONS
759	Life Cycle Impact Assessment of Terrestrial Acidification: Modeling Spatially Explicit Soil Sensitivity at the Global Scale. <i>Environmental Science & Technology</i> , 2012, 46, 8270-8278.	4.6	32
760	The Impacts of Land Use Change on Malaria Vector Abundance in a Water-Limited, Highland Region of Ethiopia. <i>EcoHealth</i> , 2012, 9, 455-470.	0.9	8
761	A regional comparison of water use efficiency for miscanthus, switchgrass and maize. <i>Agricultural and Forest Meteorology</i> , 2012, 164, 82-95.	1.9	120
762	Using farm accountancy data to calibrate a crop model for climate impact studies. <i>Agricultural Systems</i> , 2012, 111, 23-33.	3.2	23
763	Soil microbial communities under model biofuel cropping systems in southern Wisconsin, USA: Impact of crop species and soil properties. <i>Applied Soil Ecology</i> , 2012, 54, 24-31.	2.1	78
764	Developing a model framework for predicting effects of woody expansion and fire on ecosystem carbon and nitrogen in a pinyon-juniper woodland. <i>Journal of Arid Environments</i> , 2012, 76, 97-104.	1.2	6
765	Changes in the soil, litter, and vegetation nitrogen and carbon concentrations of semiarid shrublands in response to chronic dry season nitrogen input. <i>Journal of Arid Environments</i> , 2012, 82, 115-122.	1.2	17
766	Contrasting nutrient-capture strategies in shrubs and grasses of a Patagonian arid ecosystem. <i>Journal of Arid Environments</i> , 2012, 82, 130-135.	1.2	26
767	Depth distribution of roots of <i>Eucalyptus dunnii</i> and <i>Corymbia citriodora</i> subsp. <i>variegata</i> in different soil conditions. <i>Forest Ecology and Management</i> , 2012, 269, 249-258.	1.4	22
768	Root:shoot ratios across China's forests: Forest type and climatic effects. <i>Forest Ecology and Management</i> , 2012, 269, 19-25.	1.4	75
769	Prediction of vertical soil organic carbon profiles using soil properties and environmental tracer data at an untilled site. <i>Geoderma</i> , 2012, 170, 337-346.	2.3	15
770	Southern Appalachian hillslope erosion rates measured by soil and detrital radiocarbon in hollows. <i>Geomorphology</i> , 2012, 138, 121-129.	1.1	16
771	Evidence for a plant community economics spectrum driven by nutrient and water limitations in a Mediterranean rangeland of southern France. <i>Journal of Ecology</i> , 2012, 100, 1315-1327.	1.9	154
772	Partitioning of soil CO ₂ flux components in a temperate grassland ecosystem. <i>European Journal of Soil Science</i> , 2012, 63, 249-260.	1.8	35
773	Biomass Components and Environmental Controls in Ningxia Grasslands. <i>Journal of Integrative Agriculture</i> , 2012, 11, 2079-2087.	1.7	8
774	A model-based evaluation of woody plant encroachment effects on coupled carbon and water cycles. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	9
775	A mechanistic ecohydrological model to investigate complex interactions in cold and warm water-controlled environments: 1. Theoretical framework and plot-scale analysis. <i>Journal of Advances in Modeling Earth Systems</i> , 2012, 4, .	1.3	58
776	Climate and vegetation controls on the surface water balance: Synthesis of evapotranspiration measured across a global network of flux towers. <i>Water Resources Research</i> , 2012, 48, .	1.7	254

#	ARTICLE	IF	CITATIONS
777	Improving the responses of the Australian community land surface model (CABLE) to seasonal drought. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	79
779	Analytical expressions for drainable and fillable porosity of phreatic aquifers under vertical fluxes from evapotranspiration and recharge. <i>Water Resources Research</i> , 2012, 48, .	1.7	39
780	Soil water availability strongly modulates soil CO ₂ efflux in different Mediterranean ecosystems: Model calibration using the Bayesian approach. <i>Agriculture, Ecosystems and Environment</i> , 2012, 161, 88-100.	2.5	30
781	Soil carbon lost from Mollisols of the North Central U.S.A. with 20 years of agricultural best management practices. <i>Agriculture, Ecosystems and Environment</i> , 2012, 162, 68-76.	2.5	85
782	Carbonization of Urban Areas. , 2012, , 369-382.		1
783	Global Consequences of the Bioenergy Greenhouse Gas Accounting Error. , 2012, , 679-711.		3
784	Root biomass, root:shoot ratio and belowground carbon stocks in the open savannahs of Roraima, Brazilian Amazonia. <i>Australian Journal of Botany</i> , 2012, 60, 405.	0.3	21
785	Effects of soil physicochemical properties and stand age on fine root biomass and vertical distribution of plantation forests in the Loess Plateau of China. <i>Ecological Research</i> , 2012, 27, 827-836.	0.7	45
786	Pot size matters: a meta-analysis of the effects of rooting volume on plant growth. <i>Functional Plant Biology</i> , 2012, 39, 839.	1.1	578
787	Energy, Transport, & the Environment. , 2012, , .		12
788	Evaluating Ecohydrological Theories of Woody Root Distribution in the Kalahari. <i>PLoS ONE</i> , 2012, 7, e33996.	1.1	32
789	Comparing the Effect of Naturally Restored Forest and Grassland on Carbon Sequestration and Its Vertical Distribution in the Chinese Loess Plateau. <i>PLoS ONE</i> , 2012, 7, e40123.	1.1	42
790	Effects of fire on belowground biomass in Chihuahuan desert grassland. <i>Ecosphere</i> , 2012, 3, 1-13.	1.0	5
791	Forest Biomass Utilization for Biofuels and Bioproducts. <i>International Journal of Forestry Research</i> , 2012, 2012, 1-2.	0.2	0
792	The High Input of Soil Organic Matter from Dead Tree Fine Roots into the Forest Soil. <i>International Journal of Forestry Research</i> , 2012, 2012, 1-9.	0.2	17
793	Canopy vs. Roots: Production and Destruction of Variability in Soil Moisture and Hydrologic Fluxes. <i>Vadose Zone Journal</i> , 2012, 11, vzt2011.0159.	1.3	41
794	Altitudinal variations in soil carbon storage and distribution patterns in cold desert high altitude microclimate of India. <i>African Journal of Agricultural Research Vol Pp</i> , 2012, 7, 6313-6319.	0.2	21
795	Plant root distributions and nitrogen uptake predicted by a hypothesis of optimal root foraging. <i>Ecology and Evolution</i> , 2012, 2, 1235-1250.	0.8	59

#	ARTICLE	IF	CITATIONS
796	On stochastic modelling of groundwater uptake in semi-arid water-limited systems: root density and seasonality effects. <i>Ecohydrology</i> , 2012, 5, 580-595.	1.1	5
797	Spatial and temporal dynamics of soil moisture in a Mediterranean mountain area (Vallcebre, NE) Tj ETQq1 1 0.784314 rgBT /Overlock 18	1.1	18
798	Significant variation in vegetation characteristics and dynamics from ecohydrological optimality of net carbon profit. <i>Ecohydrology</i> , 2012, 5, 1-18.	1.1	21
799	Invasion of shrublands by exotic grasses: ecohydrological consequences in cold versus warm deserts. <i>Ecohydrology</i> , 2012, 5, 160-173.	1.1	72
800	Influence of tree species on carbon sequestration in afforested pastures in a humid temperate region. <i>Plant and Soil</i> , 2012, 353, 333-353.	1.8	63
801	Root characteristics of C4 grasses limit reliance on deep soil water in tallgrass prairie. <i>Plant and Soil</i> , 2012, 355, 385-394.	1.8	89
802	Response of dominant grass and shrub species to water manipulation: an ecophysiological basis for shrub invasion in a Chihuahuan Desert Grassland. <i>Oecologia</i> , 2012, 169, 373-383.	0.9	79
803	Interspecific competition induces asymmetrical rooting profile adjustments in shrub-encroached open oak woodlands. <i>Trees - Structure and Function</i> , 2012, 26, 997-1006.	0.9	43
804	Root Biomass Dynamics Under Experimental Warming and Doubled Precipitation in a Tallgrass Prairie. <i>Ecosystems</i> , 2012, 15, 542-554.	1.6	45
805	Model-based analysis of the spatial variability and long-term trends of soil drought at Scots pine stands in northeastern Germany. <i>European Journal of Forest Research</i> , 2012, 131, 1013-1024.	1.1	8
806	Biomass allocation to leaves, stems and roots: meta-analyses of interspecific variation and environmental control. <i>New Phytologist</i> , 2012, 193, 30-50.	3.5	2,012
807	Root responses to nutrients and soil biota: drivers of species coexistence and ecosystem productivity. <i>Journal of Ecology</i> , 2012, 100, 6-15.	1.9	182
808	The responses of grassland plants to experimentally simulated climate change depend on land use and region. <i>Global Change Biology</i> , 2012, 18, 127-137.	4.2	43
809	The effects of the tillage system on chickpea root growth. <i>Field Crops Research</i> , 2012, 128, 76-81.	2.3	23
810	A model that explains diversity patterns of arbuscular mycorrhizas. <i>Ecological Modelling</i> , 2012, 231, 146-152.	1.2	12
811	Initial greenhouse gas emissions and nitrogen leaching losses associated with converting pastureland to short-rotation woody bioenergy crops in northern Michigan, USA. <i>Biomass and Bioenergy</i> , 2012, 39, 413-426.	2.9	43
812	Fine root dynamics with stand development in the boreal forest. <i>Functional Ecology</i> , 2012, 26, 991-998.	1.7	76
813	Soil organic carbon stocks in southeast Germany (Bavaria) as affected by land use, soil type and sampling depth. <i>Global Change Biology</i> , 2012, 18, 2233-2245.	4.2	242

#	ARTICLE	IF	CITATIONS
814	Mechanisms promoting tree species coexistence: Experimental evidence with saplings of subtropical forest ecosystems of China. <i>Journal of Vegetation Science</i> , 2012, 23, 837-846.	1.1	46
815	Arbuscular mycorrhiza and soil nitrogen cycling. <i>Soil Biology and Biochemistry</i> , 2012, 46, 53-62.	4.2	280
816	Restoration of shrub communities elevates organic carbon in arid soils of northwestern China. <i>Soil Biology and Biochemistry</i> , 2012, 47, 123-132.	4.2	46
817	RothC simulation of carbon accumulation in soil after repeated application of widely different organic amendments. <i>Soil Biology and Biochemistry</i> , 2012, 52, 49-60.	4.2	86
818	Evaluation the impact of earthquake on ecosystem services. <i>Procedia Environmental Sciences</i> , 2012, 13, 954-966.	1.3	18
819	Importance of root HTO uptake in controlling land-surface tritium dynamics after an-acute HT deposition: a numerical experiment. <i>Journal of Environmental Radioactivity</i> , 2012, 109, 94-102.	0.9	16
820	Roots, storms and soil pores: Incorporating key ecohydrological processes into Budyko's hydrological model. <i>Journal of Hydrology</i> , 2012, 436-437, 35-50.	2.3	327
821	Ecological characteristics of <i>Alhagi sparsifolia</i> Shap. seedling roots under different irrigation treatments. <i>Russian Journal of Ecology</i> , 2012, 43, 196-203.	0.3	9
822	Plant competitive ability and the transitivity of competitive hierarchies change with plant age. <i>Plant Ecology</i> , 2012, 213, 15-23.	0.7	40
823	Root Distributions of Planted Boreal Mixedwood Species on Reclaimed Saline Sodic Overburden. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 215-231.	1.1	8
824	Spatial and seasonal distribution of nitrogen in marsh soils of a typical floodplain wetland in Northeast China. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 1253-1263.	1.3	40
825	Slowing of nitrogen cycling and increasing nitrogen use efficiency following afforestation of semi-arid shrubland. <i>Oecologia</i> , 2012, 168, 563-575.	0.9	20
826	Root trait responses of six temperate grassland species to intensive mowing and NPK fertilisation: a field study in a temperate grassland. <i>Plant and Soil</i> , 2013, 373, 687-698.	1.8	42
827	Root orientation can affect detection accuracy of ground-penetrating radar. <i>Plant and Soil</i> , 2013, 373, 317-327.	1.8	48
828	Fine root biomass and turnover of two fast-growing poplar genotypes in a short-rotation coppice culture. <i>Plant and Soil</i> , 2013, 373, 269-283.	1.8	39
829	Hydraulic redistribution of soil water by roots of two desert riparian phreatophytes in northwest China's extremely arid region. <i>Plant and Soil</i> , 2013, 372, 297-308.	1.8	53
830	An optimized fine root sampling methodology balancing accuracy and time investment. <i>Plant and Soil</i> , 2013, 366, 351-361.	1.8	23
831	A randomization method for efficiently and accurately processing fine roots, and separating them from debris, in the laboratory. <i>Plant and Soil</i> , 2013, 363, 383-398.	1.8	6

#	ARTICLE	IF	CITATIONS
832	Annual and monthly carbon balance in an intensively managed Mediterranean olive orchard. <i>Photosynthetica</i> , 2013, 51, 63-74.	0.9	51
833	Evapotranspiration of a high-density poplar stand in comparison with a reference grass cover in the Czechâ€“Moravian Highlands. <i>Agricultural and Forest Meteorology</i> , 2013, 181, 43-60.	1.9	40
834	Assessment of uncertainty in river flow projections for the Mekong River using multiple GCMs and hydrological models. <i>Journal of Hydrology</i> , 2013, 486, 1-30.	2.3	109
835	Root controls on water redistribution and carbon uptake in the soilâ€“plant system under current and future climate. <i>Advances in Water Resources</i> , 2013, 60, 110-120.	1.7	40
836	Root characteristics of <i>Alhagi sparsifolia</i> seedlings in response to water supplement in an arid region, northwestern China. <i>Journal of Arid Land</i> , 2013, 5, 542-551.	0.9	12
837	Patterns, magnitude, and controlling factors of hydraulic redistribution of soil water by <i>Tamarix ramosissima</i> roots. <i>Journal of Arid Land</i> , 2013, 5, 396-407.	0.9	22
838	Responses of root growth of <i>Alhagi sparsifolia</i> Shap. (Fabaceae) to different simulated groundwater depths in the southern fringe of the Taklimakan Desert, China. <i>Journal of Arid Land</i> , 2013, 5, 220-232.	0.9	33
839	A comparison of the strength of biodiversity effects across multiple functions. <i>Oecologia</i> , 2013, 173, 223-237.	0.9	91
840	Depth of soil water uptake by tropical rainforest trees during dry periods: does tree dimension matter?. <i>Oecologia</i> , 2013, 173, 1191-1201.	0.9	116
841	Effect of tree density on root distribution in <i>Fagus sylvatica</i> stands: a semi-automatic digitising device approach to trench wall method. <i>Trees - Structure and Function</i> , 2013, 27, 1503-1513.	0.9	33
842	Walterâ€™s two-layer hypothesis revisited: back to the roots!. <i>Oecologia</i> , 2013, 172, 617-630.	0.9	182
843	Ecosystem Services of Energy Exchange and Regulation. , 2013, , 81-92.		2
844	Temperature modulates intra-plant growth of <i>Salix polaris</i> from a high Arctic site (Svalbard). <i>Polar Biology</i> , 2013, 36, 1305-1318.	0.5	74
845	Fine root response to soil resource heterogeneity differs between grassland and forest. <i>Plant Ecology</i> , 2013, 214, 821-829.	0.7	24
846	Soil aggregate fraction-based ¹⁴ C analysis and its application in the study of soil organic carbon turnover under forests of different ages. <i>Science Bulletin</i> , 2013, 58, 1936-1947.	1.7	27
847	Ecosystem Services and Carbon Sequestration in the Biosphere. , 2013, , .		27
848	Plant water uptake strategies to cope with stochastic rainfall. <i>Advances in Water Resources</i> , 2013, 53, 118-130.	1.7	12
849	Tradeoffs between functional strategies for resource-use and drought-survival in Mediterranean rangeland species. <i>Environmental and Experimental Botany</i> , 2013, 87, 126-136.	2.0	91

#	ARTICLE	IF	CITATIONS
850	Vertical distribution of fine roots of <i>Tamarix ramosissima</i> in an arid region of southern Nevada. <i>Journal of Arid Environments</i> , 2013, 92, 46-52.	1.2	23
851	Biological constraints on water transport in the soil-plant-atmosphere system. <i>Advances in Water Resources</i> , 2013, 51, 292-304.	1.7	110
852	Issues Related to Incorporating Northern Peatlands into Global Climate Models. <i>Geophysical Monograph Series</i> , 0, , 19-35.	0.1	30
853	Response of plant biomass and soil respiration to experimental warming and precipitation manipulation in a Northern Great Plains grassland. <i>Agricultural and Forest Meteorology</i> , 2013, 173, 40-52.	1.9	63
854	Uncertainty in below-ground carbon biomass for major land covers in Southeast Asia. <i>Forest Ecology and Management</i> , 2013, 310, 915-926.	1.4	45
855	Root patterns and hydrogeomorphic niches of riparian plants in the American Southwest. <i>Journal of Arid Environments</i> , 2013, 94, 1-9.	1.2	50
856	The Structure, Distribution, and Biomass of the World's Forests. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2013, 44, 593-622.	3.8	616
857	An efficient method for global parameter sensitivity analysis and its applications to the Australian community land surface model (CABLE). <i>Agricultural and Forest Meteorology</i> , 2013, 182-183, 292-303.	1.9	41
858	Surface ecophysiological behavior across vegetation and moisture gradients in tropical South America. <i>Agricultural and Forest Meteorology</i> , 2013, 182-183, 177-188.	1.9	29
859	Contrasting Effects of Precipitation Manipulations on Production in Two Sites within the Central Grassland Region, USA. <i>Ecosystems</i> , 2013, 16, 1039-1051.	1.6	64
860	Soil CO ₂ efflux and soil carbon balance of a tropical rubber plantation. <i>Ecological Research</i> , 2013, 28, 969-979.	0.7	11
861	Effects of drip irrigation on deep root distribution, rooting depth, and soil water profile of jujube in a semiarid region. <i>Plant and Soil</i> , 2013, 373, 995-1006.	1.8	36
862	Effect of rainfall seasonality on carbon storage in tropical dry ecosystems. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 1156-1167.	1.3	46
863	Characteristics of fine root system and water uptake in a triploid <i>Populus tomentosa</i> plantation in the North China Plain: Implications for irrigation water management. <i>Agricultural Water Management</i> , 2013, 117, 83-92.	2.4	51
864	Livestock-type effects on biomass and nitrogen partitioning in temperate pastures with different functional group abundance. <i>Grass and Forage Science</i> , 2013, 68, 386-394.	1.2	9
865	Sub-tropic degraded red soil restoration: Is soil organic carbon build-up limited by nutrients supply. <i>Forest Ecology and Management</i> , 2013, 300, 77-87.	1.4	36
866	Soil physicochemical properties and moisture dynamics of a large soil profile in a tropical monsoon forest. <i>Geoderma</i> , 2013, 197-198, 205-211.	2.3	5
867	Spatial precipitation and evapotranspiration in the typical steppe of Inner Mongolia, China - A model based approach using MODIS data. <i>Journal of Arid Environments</i> , 2013, 88, 184-193.	1.2	10

#	ARTICLE	IF	CITATIONS
868	Vegetation and Topographic Control on Spatial Variability of Soil Organic Carbon. <i>Pedosphere</i> , 2013, 23, 48-58.	2.1	54
869	Overview of the Large-Scale Biosphere-Atmosphere Experiment in Amazonia Data Model Intercomparison Project (LBA-DMIP). <i>Agricultural and Forest Meteorology</i> , 2013, 182-183, 111-127.	1.9	55
870	From site-level to global simulation: Reconciling carbon, water and energy fluxes over different spatial scales using a process-based ecophysiological land-surface model. <i>Agricultural and Forest Meteorology</i> , 2013, 176, 111-124.	1.9	17
871	Leaf water deuterium enrichment shapes leaf wax n-alkane $\delta^{13}C$ values of angiosperm plants II: Observational evidence and global implications. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 111, 50-63.	1.6	188
872	Contributions of microbial and physical-chemical processes to phosphorus availability in Podzols and Arenosols under a temperate forest. <i>Geoderma</i> , 2013, 211-212, 18-27.	2.3	24
873	Modeling plant structure and its impacts on carbon and water cycles of the Central Asian arid ecosystem in the context of climate change. <i>Ecological Modelling</i> , 2013, 267, 158-179.	1.2	30
874	Extremely low fine root biomass in <i>Larix sibirica</i> forests at the southern drought limit of the boreal forest. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2013, 208, 488-496.	0.6	32
875	Tree species diversity increases fine root productivity through increased soil volume filling. <i>Journal of Ecology</i> , 2013, 101, 210-219.	1.9	175
876	Soil water balance performs better than climatic water variables in tree species distribution modelling. <i>Global Ecology and Biogeography</i> , 2013, 22, 470-482.	2.7	104
877	Effective root depth of the Caatinga biome. <i>Journal of Arid Environments</i> , 2013, 89, 1-4.	1.2	47
878	A synthesis of change in deep soil organic carbon stores with afforestation of agricultural soils. <i>Forest Ecology and Management</i> , 2013, 296, 53-63.	1.4	133
879	Nitrogen mineralization in a coarse soil of the semi-arid Pampas of Argentina. <i>Archives of Agronomy and Soil Science</i> , 2013, 59, 259-272.	1.3	11
880	Water-use efficiency and whole-plant performance of nine tropical tree species at two sites with contrasting water availability in Panama. <i>Trees - Structure and Function</i> , 2013, 27, 639-653.	0.9	25
881	Fine root dynamics along an elevational gradient in tropical Amazonian and Andean forests. <i>Global Biogeochemical Cycles</i> , 2013, 27, 252-264.	1.9	57
882	Water controls on nitrogen transformations and stocks in an arid ecosystem. <i>Ecosphere</i> , 2013, 4, 1-17.	1.0	67
883	The effect of fertilizer and manure application on CH_4 and N_2O emissions from managed grasslands in Japan. <i>Soil Science and Plant Nutrition</i> , 2013, 59, 69-86.	0.8	36
884	A global analysis of soil microbial biomass carbon, nitrogen and phosphorus in terrestrial ecosystems. <i>Global Ecology and Biogeography</i> , 2013, 22, 737-749.	2.7	762
885	Land use effects on soil carbon in the Argentine Pampas. <i>Geoderma</i> , 2013, 192, 97-110.	2.3	91

#	ARTICLE	IF	CITATIONS
886	Patterns of root architecture adaptation of a phreatophytic perennial desert plant in a hyperarid desert. <i>South African Journal of Botany</i> , 2013, 86, 56-62.	1.2	23
887	Plant "soil feedbacks: the past, the present and future challenges. <i>Journal of Ecology</i> , 2013, 101, 265-276.	1.9	1,259
888	Comparison of Trees and Grasses for Rhizoremediation of Petroleum Hydrocarbons. <i>International Journal of Phytoremediation</i> , 2013, 15, 844-860.	1.7	85
889	Statistical patterns in tropical tree cover explained by the different water demand of individual trees and grasses. <i>Ecology</i> , 2013, 94, 2138-2144.	1.5	15
890	What do ecologists miss by not digging deep enough? Insights and methodological guidelines for assessing soil fertility status in ecological studies. <i>Acta Oecologica</i> , 2013, 51, 17-27.	0.5	34
891	Grassland Ecosystems. , 2013, , 1-7.		6
892	Sensitivity analysis of a process-based ecosystem model: Pinpointing parameterization and structural issues. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 505-528.	1.3	101
893	Native prairie filter strips reduce runoff from hillslopes under annual row-crop systems in Iowa, USA. <i>Journal of Hydrology</i> , 2013, 477, 94-103.	2.3	67
894	Density fractionation and ^{13}C reveal changes in soil carbon following woody encroachment in a desert ecosystem. <i>Biogeochemistry</i> , 2013, 112, 409-422.	1.7	44
896	Foliar ^{15}N variations with stand ages in temperate secondary forest ecosystems, Northeast China. <i>Scandinavian Journal of Forest Research</i> , 2013, 28, 428-435.	0.5	5
897	Conversion of tropical moist forest into cacao agroforest: consequences for carbon pools and annual C sequestration. <i>Agroforestry Systems</i> , 2013, 87, 1173-1187.	0.9	38
898	Afforestation with Norway spruce on a subalpine pasture alters carbon dynamics but only moderately affects soil carbon storage. <i>Biogeochemistry</i> , 2013, 115, 251-266.	1.7	49
899	Effect of Cut Plant Residue Management and Fertilization on the Dry-Matter Yield of Swards and on Carbon Content of Soil. <i>Communications in Soil Science and Plant Analysis</i> , 2013, 44, 205-218.	0.6	7
900	An inorganic CO_2 diffusion and dissolution process explains negative CO_2 fluxes in saline/alkaline soils. <i>Scientific Reports</i> , 2013, 3, 2025.	1.6	103
901	Groundwater Constraints on Simulated Transpiration Variability over Southeastern Australian Forests. <i>Journal of Hydrometeorology</i> , 2013, 14, 543-559.	0.7	19
903	Droplet condensation on polymer surfaces: A review. <i>Turkish Journal of Chemistry</i> , 2013, , .	0.5	7
904	Effects of Monovegetation Restoration Types on Soil Water Distribution and Balance on a Hillslope in Northern Loess Plateau of China. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013, 18, 413-421.	0.8	25
905	Not all droughts are created equal: translating meteorological drought into woody plant mortality. <i>Tree Physiology</i> , 2013, 33, 672-683.	1.4	361

#	ARTICLE	IF	CITATIONS
906	Deciduous and evergreen trees differ in juvenile biomass allometries because of differences in allocation to root storage. <i>Annals of Botany</i> , 2013, 112, 575-587.	1.4	41
907	PEATBOG: a biogeochemical model for analyzing coupled carbon and nitrogen dynamics in northern peatlands. <i>Geoscientific Model Development</i> , 2013, 6, 1173-1207.	1.3	31
908	Plant-Environment Interactions. , 2013, , 1065-1166.		11
909	Climate warming and precipitation redistribution modify tree-grass interactions and tree species establishment in a warm-temperate savanna. <i>Global Change Biology</i> , 2013, 19, 843-857.	4.2	73
910	The effects of 11Åyr of <scp>CO</scp>₂ enrichment on roots in a <scp>F</scp>lorida scrub-oak ecosystem. <i>New Phytologist</i> , 2013, 200, 778-787.	3.5	36
911	Variability and distribution of spatial evapotranspiration in semi arid Inner Mongolian grasslands from 2002 to 2011. <i>SpringerPlus</i> , 2013, 2, 547.	1.2	8
912	Reconciling soil thermal and hydrological lower boundary conditions in land surface models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 7819-7834.	1.2	85
914	Implications of distributed hydrologic model parameterization on water fluxes at multiple scales and locations. <i>Water Resources Research</i> , 2013, 49, 360-379.	1.7	226
915	DEVELOPMENT OF A DISTRIBUTED HYDROLOGICAL - DYNAMIC VEGETATION COUPLING MODEL AND ITS APPLICATION TO NORTH AFRICA. <i>Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 417		
916	Root and dissolved organic carbon controls on subsurface soil carbon dynamics: A model approach. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 1646-1659.	1.3	45
917	Coarse root distribution of a semi-arid oak savanna estimated with ground penetrating radar. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 135-147.	1.3	34
918	Nutrient Leaching from Mixed-Species Florida Residential Landscapes. <i>Journal of Environmental Quality</i> , 2013, 42, 1534-1544.	1.0	12
919	Nutrient Uptake and Root System Architecture Modeling: Past and Prospects for the Future. , 2013, , 404-417.		7
920	Carbon isotopes for estimating soil decomposition and physical mixing in well-drained forest soils. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 1532-1545.	1.3	77
921	Adding trees to irrigated turfgrass lawns may be a water-saving measure in semi-arid environments. <i>Ecohydrology</i> , 2014, 7, 1314-1330.	1.1	34
922	Low gains in ecosystem carbon with woody plant encroachment in a South African savanna. <i>Journal of Tropical Ecology</i> , 2013, 29, 49-60.	0.5	30
923	Weighted objective function selector algorithm for parameter estimation of SVAT models with remote sensing data. <i>Water Resources Research</i> , 2013, 49, 6959-6978.	1.7	13
924	VIC+ for water-limited conditions: A study of biological and hydrological processes and their interactions in soil-plant-atmosphere continuum. <i>Water Resources Research</i> , 2013, 49, 7711-7732.	1.7	25

#	ARTICLE	IF	CITATIONS
925	Contribution of hydraulically lifted deep moisture to the water budget in a Southern California mixed forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 1561-1572.	1.3	21
926	Variations in Stand Structure and Diversity along a Soil Fertility Gradient in a Brazilian Savanna (Cerrado) in Southern Mato Grosso. <i>Soil Science Society of America Journal</i> , 2013, 77, 1370-1379.	1.2	33
928	Dynamics of Plant Root Growth under Increased Atmospheric Carbon Dioxide. <i>Agronomy Journal</i> , 2013, 105, 657-669.	0.9	113
929	Effects of harvest on carbon and nitrogen dynamics in a Pacific Northwest forest catchment. <i>Water Resources Research</i> , 2013, 49, 1292-1313.	1.7	23
930	Effects of vegetation heterogeneity and surface topography on spatial scaling of net primary productivity. <i>Biogeosciences</i> , 2013, 10, 4879-4896.	1.3	34
931	The SURFEXv7.2 land and ocean surface platform for coupled or offline simulation of earth surface variables and fluxes. <i>Geoscientific Model Development</i> , 2013, 6, 929-960.	1.3	527
932	Phosphorus status of soils from contrasting forested ecosystems in southwestern Siberia: effects of microbiological and physicochemical properties. <i>Biogeosciences</i> , 2013, 10, 733-752.	1.3	32
933	Simulated impacts of mountain pine beetle and wildfire disturbances on forest vegetation composition and carbon stocks in the Southern Rocky Mountains. <i>Biogeosciences</i> , 2013, 10, 8203-8222.	1.3	14
934	Process-based modelling to understand which ryegrass characteristics can increase production and decrease leaching in grazed grass-legume pastures. <i>Crop and Pasture Science</i> , 2013, 64, 265.	0.7	19
935	Root system investigation in sclerophyllous vegetation: an overview. <i>Italian Journal of Agronomy</i> , 2013, 8, 17.	0.4	13
936	Patterns of Plant Biomass Allocation in Temperate Grasslands across a 2500-km Transect in Northern China. <i>PLoS ONE</i> , 2013, 8, e71749.	1.1	46
937	The effect of vertically resolved soil biogeochemistry and alternate soil C and N models on C dynamics of CLM4. <i>Biogeosciences</i> , 2013, 10, 7109-7131.	1.3	359
938	Root Characteristics of Perennial Warm-Season Grasslands Managed for Grazing and Biomass Production. <i>Agronomy</i> , 2013, 3, 508-523.	1.3	9
939	White Spruce Plantations on Abandoned Agricultural Land: Are They More Effective as C Sinks than Natural Succession?. <i>Forests</i> , 2013, 4, 1141-1157.	0.9	19
940	Low vertical transfer rates of carbon inferred from radiocarbon analysis in an Amazon Podzol. <i>Biogeosciences</i> , 2013, 10, 3455-3464.	1.3	6
941	An Introduction to Carbon Cycle Science. , 2013, , 24-51.		2
942	Assessment of biomass carbon stock in an <i>Ailanthus excelsa</i> Roxb. plantation Uttarakhand, India. <i>Journal of Ecology and the Natural Environment</i> , 2013, 5, 352-359.	0.2	3
943	Analysis of Soil Water Response to Grass Transpiration. <i>Soil and Water Research</i> , 2006, 1, 85-98.	0.7	17

#	ARTICLE	IF	CITATIONS
944	Effect of Oriental beech root reinforcement on slope stability (Hyrcanian Forest, Iran). <i>Journal of Forest Science</i> , 2014, 60, 166-173.	0.5	12
945	Relationships of Biomass with Environmental Factors in the Grassland Area of Hulunbuir, China. <i>PLoS ONE</i> , 2014, 9, e102344.	1.1	26
946	Integrating Stand and Soil Properties to Understand Foliar Nutrient Dynamics during Forest Succession Following Slash-and-Burn Agriculture in the Bolivian Amazon. <i>PLoS ONE</i> , 2014, 9, e86042.	1.1	10
947	Responses of Soil Microbial Communities to Experimental Warming in Alpine Grasslands on the Qinghai-Tibet Plateau. <i>PLoS ONE</i> , 2014, 9, e103859.	1.1	36
948	Linking <i>Populus euphratica</i> Hydraulic Redistribution to Diversity Assembly in the Arid Desert Zone of Xinjiang, China. <i>PLoS ONE</i> , 2014, 9, e109071.	1.1	17
949	Connecting Soil Organic Carbon and Root Biomass with Land-Use and Vegetation in Temperate Grassland. <i>Scientific World Journal</i> , The, 2014, 2014, 1-9.	0.8	29
950	Vertical Distribution of Soil Organic Carbon Density in Relation to Land Use/Cover, Altitude and Slope Aspect in the Eastern Himalayas. <i>Land</i> , 2014, 3, 1232-1250.	1.2	36
951	Spatio-Temporal Patterns and Climate Variables Controlling of Biomass Carbon Stock of Global Grassland Ecosystems from 1982 to 2006. <i>Remote Sensing</i> , 2014, 6, 1783-1802.	1.8	64
952	Global modeling of withdrawal, allocation and consumptive use of surface water and groundwater resources. <i>Earth System Dynamics</i> , 2014, 5, 15-40.	2.7	549
953	Contrasting roles of interception and transpiration in the hydrological cycle – Part 1: Temporal characteristics over land. <i>Earth System Dynamics</i> , 2014, 5, 441-469.	2.7	104
954	Simulating the Effect of Vegetation in Formation of Pedogenic Carbonate. <i>Soil Science Society of America Journal</i> , 2014, 78, 914-924.	1.2	28
955	Insights into biogeochemical cycling from a soil evolution model and long-term chronosequences. <i>Biogeosciences</i> , 2014, 11, 6873-6894.	1.3	4
956	Evaluation of root water uptake in the ISBA-A-gs land surface model using agricultural yield statistics over France. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 4979-4999.	1.9	19
957	Comparison of Soil Organic Carbon Dynamics in Forested Riparian Wetlands and Adjacent Uplands. <i>Soil Science Society of America Journal</i> , 2014, 78, 1817-1827.	1.2	15
958	Terrestrial Carbon Sequestration as a Climate Change Mitigation Activity. <i>Journal of Pollution Effects & Control</i> , 2014, 02, .	0.1	11
959	Examination of Vertical Distribution of Fine Root Biomass in a Tropical Moist Forest of the Central Amazon, Brazil. <i>Japan Agricultural Research Quarterly</i> , 2014, 48, 231-235.	0.1	12
960	Modeling hydraulic redistribution and ecosystem response to droughts over the Amazon basin using Community Land Model 4.0 (CLM4). <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 2130-2143.	1.3	52
961	Fine-root distributions of Central European forest soils and their interaction with site and soil properties. <i>Canadian Journal of Forest Research</i> , 2014, 44, 71-81.	0.8	9

#	ARTICLE	IF	CITATIONS
962	A worldwide analysis of spatiotemporal changes in water balanceâ€based evapotranspiration from 1982 to 2009. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1186-1202.	1.2	109
963	Reconciling 14 C and minirhizotron-based estimates of fine-root turnover with survival functions. <i>Journal of Plant Nutrition and Soil Science</i> , 2014, 177, 287-296.	1.1	8
964	Ecosystem productivity and carbon cycling in intact and annually burnt forest at the dry southern limit of the Amazon rainforest (Mato Grosso, Brazil). <i>Plant Ecology and Diversity</i> , 2014, 7, 25-40.	1.0	41
965	The productivity, allocation and cycling of carbon in forests at the dry margin of the Amazon forest in Bolivia. <i>Plant Ecology and Diversity</i> , 2014, 7, 55-69.	1.0	34
966	Phenotypic plasticity of the maize root system in response to heterogeneous nitrogen availability. <i>Planta</i> , 2014, 240, 667-678.	1.6	95
967	Climate change uncertainty in environmental flows for the Mekong River. <i>Hydrological Sciences Journal</i> , 2014, 59, 935-954.	1.2	63
968	Root Biomass and Distribution Patterns in a Semi-Arid Mesquite Savanna: Responses to Long-Term Rainfall Manipulation. <i>Rangeland Ecology and Management</i> , 2014, 67, 206-218.	1.1	34
969	The seasonal cycle of productivity, metabolism and carbon dynamics in a wet aseasonal forest in north-west Amazonia (Iquitos, Peru). <i>Plant Ecology and Diversity</i> , 2014, 7, 71-83.	1.0	25
970	Seasonal production, allocation and cycling of carbon in two mid-elevation tropical montane forest plots in the Peruvian Andes. <i>Plant Ecology and Diversity</i> , 2014, 7, 125-142.	1.0	47
971	Root inclusion net method: novel approach to determine fine root production and turnover in <i>Larix principis-rupprechtii</i> Mayr plantation in North China. <i>Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry</i> , 2014, 38, 388-398.	0.8	18
972	Root architecture adaptation of <i>Pistacia atlantica</i> subsp. <i>atlantica</i> according to an increasing climatic and edaphic gradient: case of a northâ€south transect in Algeria. <i>Turkish Journal of Botany</i> , 2014, 38, 536-549.	0.5	4
973	Root behavior of savanna species in Brazilâ€™s Pantanal wetland. <i>Global Ecology and Conservation</i> , 2014, 2, 378-384.	1.0	9
974	A Molecular Identification Protocol for Roots of Boreal Forest Tree Species. <i>Applications in Plant Sciences</i> , 2014, 2, 1400069.	0.8	7
975	The Effect of Variable Soil Moisture Profiles on P-Band Backscatter. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 6315-6325.	2.7	16
976	An improved approach for remotely sensing water stress impacts on forest C uptake. <i>Global Change Biology</i> , 2014, 20, 2856-2866.	4.2	35
977	Quantifying the rate and depth dependence of bioturbation based on opticallyâ€stimulated luminescence (OSL) dates and meteoric ¹⁰ Be. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 1188-1196.	1.2	77
978	Temperature drives global patterns in forest biomass distribution in leaves, stems, and roots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13721-13726.	3.3	249
979	Watershedâ€scale modeling of streamflow change in incised montane meadows. <i>Water Resources Research</i> , 2014, 50, 2657-2678.	1.7	14

#	ARTICLE	IF	CITATIONS
980	Tree root mounds and their role in transporting soil on forested landscapes. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 711-722.	1.2	21
981	Still scratching the surface: how much of the "black box"™ of soil ectomycorrhizal communities remains in the dark?. <i>New Phytologist</i> , 2014, 201, 1101-1105.	3.5	27
982	Species-specific water use by woody plants on the Edwards Plateau, Texas. <i>Ecohydrology</i> , 2014, 7, 278-290.	1.1	10
983	Adult root structure of mediterranean shrubs: relationship with post-fire regenerative syndrome. <i>Plant Biology</i> , 2014, 16, 147-154.	1.8	8
984	Changes in soil carbon and crop yield over 60 years in the Zurich Organic Fertilization Experiment, following land-use change from grassland to cropland. <i>Journal of Plant Nutrition and Soil Science</i> , 2014, 177, 696-704.	1.1	56
985	Below-ground opportunities in vegetation science. <i>Journal of Vegetation Science</i> , 2014, 25, 1117-1125.	1.1	30
986	Biogeochemistry of Decomposition and Detrital Processing. , 2014, , 217-272.		4
987	Impact of Evapotranspiration on Dry Season Climate in the Amazon Forest*. <i>Journal of Climate</i> , 2014, 27, 574-591.	1.2	45
988	Ecosystem respiration and net primary productivity after 8-10 years of experimental through-fall reduction in an eastern Amazon forest. <i>Plant Ecology and Diversity</i> , 2014, 7, 7-24.	1.0	52
989	The production, allocation and cycling of carbon in a forest on fertile terra preta soil in eastern Amazonia compared with a forest on adjacent infertile soil. <i>Plant Ecology and Diversity</i> , 2014, 7, 41-53.	1.0	44
990	Grasses have larger response than shrubs to increased nitrogen availability: A fertilization experiment in the Patagonian steppe. <i>Journal of Arid Environments</i> , 2014, 102, 17-20.	1.2	18
991	Patterns of root decomposition in response to soil moisture best explain high soil organic carbon heterogeneity within a mesic, restored prairie. <i>Agriculture, Ecosystems and Environment</i> , 2014, 185, 188-196.	2.5	27
992	Soil carbon stocks and forest biomass following conversion of pasture to broadleaf and conifer plantations in southeastern Brazil. <i>Forest Ecology and Management</i> , 2014, 324, 37-45.	1.4	36
993	Mapping and defining sources of variability in bioavailable strontium isotope ratios in the Eastern Mediterranean. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 126, 250-264.	1.6	120
994	Fine root and litterfall dynamics of three Korean pine (<i>Pinus koraiensis</i>) forests along an altitudinal gradient. <i>Plant and Soil</i> , 2014, 374, 19-32.	1.8	30
995	Root and shoot biomasses in the tropical dry forest of semi-arid Northeast Brazil. <i>Plant and Soil</i> , 2014, 378, 113-123.	1.8	37
996	Root distribution chronosequence of a dense dwarfed jujube plantation in the semiarid hilly region of the Chinese Loess Plateau. <i>Journal of Forest Research</i> , 2014, 19, 62-69.	0.7	7
997	Climate, vegetation, and soil controls on hydraulic redistribution in shallow tree roots. <i>Advances in Water Resources</i> , 2014, 66, 70-80.	1.7	38

#	ARTICLE	IF	CITATIONS
998	Quantifying relationships between rooting traits and water uptake under drought in Mediterranean barley and durum wheat. <i>Journal of Integrative Plant Biology</i> , 2014, 56, 455-469.	4.1	53
999	Wheat root diversity and root functional characterization. <i>Plant and Soil</i> , 2014, 380, 211-229.	1.8	53
1000	Photosynthetic responses to stress in Mediterranean evergreens: Mechanisms and models. <i>Environmental and Experimental Botany</i> , 2014, 103, 24-41.	2.0	84
1001	Consistent proportional increments in responses of belowground net primary productivity to long-term warming and clipping at various soil depths in a tallgrass prairie. <i>Oecologia</i> , 2014, 174, 1045-1054.	0.9	25
1002	Decision support tool for soil sampling of heterogeneous pesticide (chlordecone) pollution. <i>Environmental Science and Pollution Research</i> , 2014, 21, 1980-1992.	2.7	25
1003	Soil Carbon. , 2014, , .		27
1004	Crop residue contributions to phosphorus pools in agricultural soils: A review. <i>Soil Biology and Biochemistry</i> , 2014, 74, 127-137.	4.2	175
1005	Dynamics, Chemistry, and Preservation of Organic Matter in Soils. , 2014, , 157-215.		45
1006	The hysteretic evapotranspirationâ€”Vapor pressure deficit relation. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 125-140.	1.3	128
1007	Introducing wood anatomical and dendrochronological aspects of herbaceous plants: applications of the <i>scpx</i> database to vegetation science. <i>Journal of Vegetation Science</i> , 2014, 25, 967-977.	1.1	20
1008	An ecosystem services perspective on brush management: research priorities for competing landâ€”use objectives. <i>Journal of Ecology</i> , 2014, 102, 1394-1407.	1.9	107
1009	Climate change will increase savannas at the expense of forests and treeless vegetation in tropical and subtropical <i>scpx</i> Americas. <i>Journal of Ecology</i> , 2014, 102, 1363-1373.	1.9	107
1010	Grassâ€”woodland transitions: determinants and consequences for ecosystem functioning and provisioning of services. <i>Journal of Ecology</i> , 2014, 102, 1357-1362.	1.9	77
1011	Characterization factors for terrestrial acidification at the global scale: A systematic analysis of spatial variability and uncertainty. <i>Science of the Total Environment</i> , 2014, 500-501, 270-276.	3.9	73
1012	Livestock Management Strategy Affects Net Ecosystem Carbon Balance of Subhumid Pasture. <i>Rangeland Ecology and Management</i> , 2014, 67, 19-29.	1.1	28
1013	Abrupt transition of mesic grassland to shrubland: evidence for thresholds, alternative attractors, and regime shifts. <i>Ecology</i> , 2014, 95, 2633-2645.	1.5	95
1014	Simulating impacts of water stress on woody biomass in the southern boreal region of western Canada using a dynamic vegetation model. <i>Agricultural and Forest Meteorology</i> , 2014, 198-199, 142-154.	1.9	14
1015	Plant diversity and drought: The role of deep roots. <i>Ecological Modelling</i> , 2014, 290, 85-93.	1.2	33

#	ARTICLE	IF	CITATIONS
1016	A groundwater–soil–plant–atmosphere continuum approach for modelling water stress, uptake, and hydraulic redistribution in phreatophytic vegetation. <i>Ecohydrology</i> , 2014, 7, 1029-1041.	1.1	48
1017	Digital mapping of soil properties in Canadian managed forests at 250m of resolution using the k-nearest neighbor method. <i>Geoderma</i> , 2014, 235-236, 59-73.	2.3	91
1018	Spatial prediction of temporal soil moisture dynamics using HYDRUS-1D. <i>Hydrological Processes</i> , 2014, 28, 171-185.	1.1	67
1019	Modeling hydrologic and ecologic responses using a new eco-hydrological model for identification of droughts. <i>Water Resources Research</i> , 2014, 50, 6214-6235.	1.7	33
1020	Root and soil carbon distribution at shoulderslope and footslope positions of temperate toposequences cropped to winter wheat. <i>Catena</i> , 2014, 123, 99-105.	2.2	14
1021	Perennial energy cropping systems affect soil enzyme activities and bacterial community structure in a South European agricultural area. <i>Applied Soil Ecology</i> , 2014, 84, 213-222.	2.1	26
1022	Multiyear precipitation reduction strongly decreases carbon uptake over northern China. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 881-896.	1.3	79
1023	Drought changes the structure and elemental composition of very fine roots in seedlings of ten woody tree species. Implications for a drier climate. <i>Plant and Soil</i> , 2014, 384, 113-129.	1.8	74
1024	Fine root distribution pattern of different aged <i>Leucaena leucocephala</i> trees in debris flow source area in Jiangjia Gully, China. <i>Journal of Mountain Science</i> , 2014, 11, 941-949.	0.8	3
1025	Change of soil organic carbon after cropland afforestation in the Beijing-Tianjin Sandstorm Source Control program area in China. <i>Chinese Geographical Science</i> , 2014, 24, 461-470.	1.2	10
1026	Vegetation traits and soil properties in response to utilization patterns of grassland in Hulun Buir City, Inner Mongolia, China. <i>Chinese Geographical Science</i> , 2014, 24, 471-478.	1.2	28
1027	Disentangling root responses to climate change in a semiarid grassland. <i>Oecologia</i> , 2014, 175, 699-711.	0.9	52
1028	The impact of climate change and its uncertainty on carbon storage in Switzerland. <i>Regional Environmental Change</i> , 2014, 14, 1437-1450.	1.4	12
1029	Estimating coarse root biomass with ground penetrating radar in a tree-based intercropping system. <i>Agroforestry Systems</i> , 2014, 88, 657-669.	0.9	36
1030	Soil organic carbon dynamics 75 years after land-use change in perennial grassland and annual wheat agricultural systems. <i>Biogeochemistry</i> , 2014, 120, 37-49.	1.7	96
1031	Genetic differences in root mass of <i>Lolium perenne</i> varieties under field conditions. <i>Euphytica</i> , 2014, 199, 223-232.	0.6	20
1032	Changes in soil carbon stock after cropland conversion to grassland in Russian temperate zone: measurements versus model simulation. <i>Nutrient Cycling in Agroecosystems</i> , 2014, 98, 97-106.	1.1	13
1033	Root traits and soil properties in harvested perennial grassland, annual wheat, and never-tilled annual wheat. <i>Plant and Soil</i> , 2014, 381, 405-420.	1.8	79

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1034	Plant Species Richness, Evenness, and Composition along Environmental Gradients in an Alpine Meadow Grazing Ecosystem in Central Tibet, China. <i>Arctic, Antarctic, and Alpine Research</i> , 2014, 46, 308-326.	0.4	61
1035	The Chronological Advancement of Soil Organic Carbon Sequestration Research: A Review. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2014, 84, 487-504.	0.4	9
1036	Productivity and carbon allocation in a tropical montane cloud forest in the Peruvian Andes. <i>Plant Ecology and Diversity</i> , 2014, 7, 107-123.	1.0	63
1037	Reconciling simulations of seasonal carbon flux and soil water with observations using tap roots and hydraulic redistribution: A multi-biome FLUXNET study. <i>Agricultural and Forest Meteorology</i> , 2014, 198-199, 309-319.	1.9	5
1038	Edaphic controls on ecosystem-level carbon allocation in two contrasting Amazon forests. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1820-1830.	1.3	11
1039	Comparison of vertical transport of ¹³⁷ Cs and organic carbon in agricultural cracking soils. <i>Geoderma</i> , 2014, 214-215, 228-238.	2.3	17
1040	Dynamics of carbon and biodiversity under REDD+ regime: A case from Nepal. <i>Environmental Science and Policy</i> , 2014, 38, 272-281.	2.4	40
1041	Sensitivity of simulated productivity to soil characteristics and plant water uptake along drought gradients in the Swiss Alps. <i>Ecological Modelling</i> , 2014, 282, 25-34.	1.2	5
1042	Optimal root profiles in water-limited ecosystems. <i>Advances in Water Resources</i> , 2014, 71, 16-22.	1.7	3
1043	Influence of groundwater on plant water use and productivity: Development of an integrated ecosystem " Variably saturated soil water flow model. <i>Agricultural and Forest Meteorology</i> , 2014, 189-190, 198-210.	1.9	72
1044	Impacts of climate change in three hydrologic regimes in British Columbia, Canada. <i>Hydrological Processes</i> , 2014, 28, 1170-1189.	1.1	79
1045	Importance of root system in total biomass for <i>Eucalyptus globulus</i> in northern Spain. <i>Biomass and Bioenergy</i> , 2014, 67, 212-222.	2.9	23
1046	Impact of Climate and Grazing on Biomass Components of Eastern Russia Typical Steppe. <i>Journal of Integrative Agriculture</i> , 2014, 13, 1183-1192.	1.7	3
1047	Potential evapotranspiration-related uncertainty in climate change impacts on river flow: An assessment for the Mekong River basin. <i>Journal of Hydrology</i> , 2014, 510, 259-279.	2.3	82
1048	Vertical distance from drainage drives floristic composition changes in an Amazonian rainforest. <i>Plant Ecology and Diversity</i> , 2014, 7, 241-253.	1.0	112
1049	Simultaneous estimation of both hydrological and ecological parameters in an ecohydrological model by assimilating microwave signal. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 8839-8857.	1.2	42
1050	Confronting terrestrial biosphere models with forest inventory data. , 2014, 24, 699-715.		18
1051	Fire dynamics distinguish grasslands, shrublands and woodlands as alternative attractors in the central Great Plains of North America. <i>Journal of Ecology</i> , 2014, 102, 1374-1385.	1.9	120

#	ARTICLE	IF	CITATIONS
1052	A review of the mechanical effects of plant roots on concentrated flow erosion rates. <i>Earth-Science Reviews</i> , 2015, 150, 666-678.	4.0	206
1053	Groundwater in the Earth's critical zone: Relevance to large-scale patterns and processes. <i>Water Resources Research</i> , 2015, 51, 3052-3069.	1.7	164
1054	Age-dependent forest carbon sink: Estimation via inverse modeling. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 2473-2492.	1.3	48
1055	Plant-plant interactions as a mechanism structuring plant diversity in a Mediterranean semi-arid ecosystem. <i>Ecology and Evolution</i> , 2015, 5, 5305-5317.	0.8	35
1056	WEIGHING WHOLE TREE TRANSPIRATION RATE OF URBAN TREES AND ANALYSIS OF TREE'S MORPHO-PHYSIOLOGICAL EFFECTS. <i>Journal of Environmental Engineering (Japan)</i> , 2015, 80, 599-608.	0.1	3
1057	Reinforcement of Soil by Fibrous Roots. <i>Advances in Agricultural Systems Modeling</i> , 2015, , 197-228.	0.3	2
1058	Root Growth and Distribution in Relation to Different Water Levels. <i>Advances in Agricultural Systems Modeling</i> , 0, , 45-65.	0.3	0
1059	Under-canopy turbulence and root water uptake of a Tibetan meadow ecosystem modeled by NMP . <i>Water Resources Research</i> , 2015, 51, 5735-5755.	1.7	23
1060	Long-Term Grassland Intensification Impacts on Particle-Size Soil Carbon Fractions: Evidence from Carbon-13 Abundance. <i>Soil Science Society of America Journal</i> , 2015, 79, 1198-1205.	1.2	5
1061	A quantitative description of the interspecies diversity of belowground structure in savanna woody plants. <i>Ecosphere</i> , 2015, 6, 1-15.	1.0	21
1062	Modelling the effects of soil type and root distribution on shallow groundwater resources. <i>Hydrological Processes</i> , 2015, 29, 4457-4469.	1.1	13
1063	Soil moisture trends in the Czech Republic between 1961 and 2012. <i>International Journal of Climatology</i> , 2015, 35, 3733-3747.	1.5	61
1064	Augmentations to the Noah Model Physics for Application to the Yellow River Source Area. Part I: Soil Water Flow. <i>Journal of Hydrometeorology</i> , 2015, 16, 2659-2676.	0.7	54
1065	Plant nutrients do not covary with soil nutrients under changing climatic conditions. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1298-1308.	1.9	62
1066	Improving the representation of hydrologic processes in Earth System Models. <i>Water Resources Research</i> , 2015, 51, 5929-5956.	1.7	366
1067	Soil organic carbon across scales. <i>Global Change Biology</i> , 2015, 21, 3561-3574.	4.2	114
1068	Does the description of a root system matter for sustainable use and conservation? A case study in Burkina Faso. <i>QScience Connect</i> , 2015, 2015, .	0.2	1
1069	Impacts of invading alien plant species on water flows at stand and catchment scales. <i>AoB PLANTS</i> , 2015, 7, plv043.	1.2	58

#	ARTICLE	IF	CITATIONS
1070	Evaluation of the hydrology of the IBIS land surface model in a semi-arid catchment. <i>Hydrological Processes</i> , 2015, 29, 653-670.	1.1	9
1071	A land data assimilation system for simultaneous simulation of soil moisture and vegetation dynamics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 5910-5930.	1.2	49
1072	The effect of soil surface sealing on vegetation water uptake along a dry climatic gradient. <i>Water Resources Research</i> , 2015, 51, 7452-7466.	1.7	15
1073	Intraspecific variation in the use of water sources by the circum-Mediterranean conifer <i>Pinus halepensis</i> . <i>New Phytologist</i> , 2015, 208, 1031-1041.	3.5	105
1074	Multi-molecular tracers of terrestrial carbon transfer across the pan-Arctic: comparison of hydrolyzable components with plant wax lipids and lignin phenols. <i>Biogeosciences</i> , 2015, 12, 4841-4860.	1.3	24
1075	Soil Methane and Carbon Dioxide Fluxes from Cropland and Riparian Buffers in Different Hydrogeomorphic Settings. <i>Journal of Environmental Quality</i> , 2015, 44, 1080-1090.	1.0	42
1076	Modelling short-term variability in carbon and water exchange in a temperate Scots pine forest. <i>Earth System Dynamics</i> , 2015, 6, 485-503.	2.7	8
1077	Responses of vertical soil moisture to rainfall pulses and land uses in a typical loess hilly area, China. <i>Solid Earth</i> , 2015, 6, 595-608.	1.2	64
1078	Enhanced Soil Carbon Storage under Agroforestry and Afforestation in Subtropical China. <i>Forests</i> , 2015, 6, 2307-2323.	0.9	12
1079	Vegetation in karst terrain of southwestern China allocates more biomass to roots. <i>Solid Earth</i> , 2015, 6, 799-810.	1.2	69
1080	Projected Future Vegetation Changes for the Northwest United States and Southwest Canada at a Fine Spatial Resolution Using a Dynamic Global Vegetation Model. <i>PLoS ONE</i> , 2015, 10, e0138759.	1.1	29
1081	Using measured soil water contents to estimate evapotranspiration and root water uptake profiles – a comparative study. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 409-425.	1.9	34
1082	Variability of phenology and fluxes of water and carbon with observed and simulated soil moisture in the Ent Terrestrial Biosphere Model (Ent TBM version 1.0.1.0.0). <i>Geoscientific Model Development</i> , 2015, 8, 3837-3865.	1.3	32
1083	Improving the ISBA land surface model simulation of water and carbon fluxes and stocks over the Amazon forest. <i>Geoscientific Model Development</i> , 2015, 8, 1709-1727.	1.3	33
1084	Modeling soil water content in extreme arid area using an adaptive neuro-fuzzy inference system. <i>Journal of Hydrology</i> , 2015, 527, 679-687.	2.3	27
1085	Biogeographical patterns of forest biomass allocation vary by climate, soil and forest characteristics in China. <i>Environmental Research Letters</i> , 2015, 10, 044014.	2.2	27
1086	Root distribution of <i>Nitraria sibirica</i> with seasonally varying water sources in a desert habitat. <i>Journal of Plant Research</i> , 2015, 128, 613-622.	1.2	33
1087	Nitrogen Uptake in an Alpine <i>Kobresia</i> Pasture on the Tibetan Plateau: Localization by ¹⁵ N Labeling and Implications for a Vulnerable Ecosystem. <i>Ecosystems</i> , 2015, 18, 946-957.	1.6	47

#	ARTICLE	IF	CITATIONS
1088	Individual-based fine root biomass and its functional relationship with leaf for <i>Pinus tabuliformis</i> in northern China. <i>European Journal of Forest Research</i> , 2015, 134, 705-714.	1.1	13
1090	Soil nutrients in an African forest/savanna mosaic: Drivers or driven?. <i>South African Journal of Botany</i> , 2015, 101, 66-72.	1.2	20
1091	Modeling Effects of Canopy and Roots on Soil Moisture and Deep Drainage. <i>Vadose Zone Journal</i> , 2015, 14, 1-18.	1.3	23
1092	Controls of soil hydraulic characteristics on modeling groundwater recharge under different climatic conditions. <i>Journal of Hydrology</i> , 2015, 521, 470-481.	2.3	31
1093	$\delta^{13}C$ values of plants as indicators of soil water content in modern ecosystems of the Chinese Loess Plateau. <i>Ecological Engineering</i> , 2015, 77, 51-59.	1.6	7
1094	Biotic and climatic controls on interannual variability in carbon fluxes across terrestrial ecosystems. <i>Agricultural and Forest Meteorology</i> , 2015, 205, 11-22.	1.9	47
1095	The role of environmental filters and functional traits in predicting the root biomass and productivity in savannas and tropical seasonal forests. <i>Forest Ecology and Management</i> , 2015, 342, 49-55.	1.4	22
1096	Soil carbon responses to past and future CO ₂ in three Texas prairie soils. <i>Soil Biology and Biochemistry</i> , 2015, 83, 66-75.	4.2	15
1097	Root biomass under stem bases and at different distances from trees. <i>Journal of Arid Environments</i> , 2015, 116, 82-88.	1.2	22
1098	Soil water and root distribution under jujube plantations in the semiarid Loess Plateau region, China. <i>Plant Growth Regulation</i> , 2015, 77, 21-31.	1.8	15
1099	Investigating the impact of leaf area index temporal variability on soil moisture predictions using remote sensing vegetation data. <i>Journal of Hydrology</i> , 2015, 522, 274-284.	2.3	29
1100	The unseen iceberg: plant roots in arctic tundra. <i>New Phytologist</i> , 2015, 205, 34-58.	3.5	260
1101	Isometric scaling of above- and below-ground biomass at the individual and community levels in the understorey of a sub-tropical forest. <i>Annals of Botany</i> , 2015, 115, 303-313.	1.4	18
1102	Fine root productivity varies along nitrogen and phosphorus gradients in high-rainfall mangrove forests of Micronesia. <i>Hydrobiologia</i> , 2015, 750, 69-87.	1.0	62
1103	Incorporating root distribution factor to evaluate soil water status for winter wheat. <i>Agricultural Water Management</i> , 2015, 153, 32-41.	2.4	31
1104	Soil organic C and total N pools in the Kalahari: potential impacts of climate change on C sequestration in savannas. <i>Plant and Soil</i> , 2015, 396, 27-44.	1.8	16
1105	Competition with winter crops induces deeper rooting of walnut trees in a Mediterranean alley cropping agroforestry system. <i>Plant and Soil</i> , 2015, 391, 219-235.	1.8	125
1106	Spatial pattern changes of biomass, litterfall and coverage with environmental factors across temperate grassland subjected to various management practices. <i>Landscape Ecology</i> , 2015, 30, 477-486.	1.9	16

#	ARTICLE	IF	CITATIONS
1107	Grazing intensity levels influence C reservoirs of wet and mesic meadows along a precipitation gradient in Northern Patagonia. <i>Wetlands Ecology and Management</i> , 2015, 23, 439-451.	0.7	30
1108	Relationships between soil organic carbon and precipitation along a climosequence in loess-derived soils of the Central Great Plains, USA. <i>Catena</i> , 2015, 133, 25-34.	2.2	28
1109	Ecohydrology and the Critical Zone: Processes and Patterns Across Scales. <i>Developments in Earth Surface Processes</i> , 2015, , 239-266.	2.8	6
1110	Calibrating the impact of root orientation on root quantification using ground-penetrating radar. <i>Plant and Soil</i> , 2015, 395, 289-305.	1.8	31
1111	How do rubber (<i>Hevea brasiliensis</i>) plantations behave under seasonal water stress in northeastern Thailand and central Cambodia?. <i>Agricultural and Forest Meteorology</i> , 2015, 213, 10-22.	1.9	30
1112	Soil organic carbon fractions and sequestration across a 150-yr secondary forest chronosequence on the Loess Plateau, China. <i>Catena</i> , 2015, 133, 303-308.	2.2	62
1113	Constraining the role of early land plants in Palaeozoic weathering and global cooling. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 201511115.	1.2	54
1114	Soil organic carbon in deep profiles under Chinese continental monsoon climate and its relations with land uses. <i>Ecological Engineering</i> , 2015, 82, 361-367.	1.6	58
1115	Rhizosphere effect of three plant species of environment under periglacial conditions (Majella Massif.) <i>Tj ETQqO 0 0 rgBT /Overlock 10 T</i>	4.2	69
1116	Rapid Root Decomposition Decouples Root Length from Increased Soil C Following Grassland Invasion. <i>Ecosystems</i> , 2015, 18, 1307-1318.	1.6	6
1117	Modelling and predicting the spatial distribution of tree root density in heterogeneous forest ecosystems. <i>Annals of Botany</i> , 2015, 116, 261-277.	1.4	14
1118	Soil organic carbon sequestration potential of artificial and natural vegetation in the hilly regions of Loess Plateau. <i>Ecological Engineering</i> , 2015, 82, 547-554.	1.6	32
1119	Transition to second generation cellulosic biofuel production systems reveals limited negative impacts on the soil microbial community structure.. <i>Applied Soil Ecology</i> , 2015, 95, 62-72.	2.1	11
1120	Seedling root traits strongly influence field survival and performance of a common bunchgrass. <i>Basic and Applied Ecology</i> , 2015, 16, 128-140.	1.2	27
1121	Investigating soil controls on soil moisture spatial variability: Numerical simulations and field observations. <i>Journal of Hydrology</i> , 2015, 524, 576-586.	2.3	28
1122	Estimating upper soil horizon carbon stocks in a permafrost watershed of Northeast Siberia by integrating field measurements with Landsat-5 TM and WorldView-2 satellite data. <i>GIScience and Remote Sensing</i> , 2015, 52, 131-157.	2.4	10
1123	Benchmark values for forest soil carbon stocks in Europe: Results from a large scale forest soil survey. <i>Geoderma</i> , 2015, 251-252, 33-46.	2.3	101
1124	Above- and below-ground biomass, surface and volume, and stored water in a mature Scots pine stand. <i>European Journal of Forest Research</i> , 2015, 134, 61-74.	1.1	28

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1125	Root biomass and soil $\delta^{13}\text{C}$ in C3 and C4 grasslands along a precipitation gradient. <i>Plant Ecology</i> , 2015, 216, 615-627.	0.7	21
1126	Carbon dioxide exchange in a tropical wet grassland. <i>Wetlands Ecology and Management</i> , 2015, 23, 817-826.	0.7	3
1127	Impacts of devegetation on the temporal evolution of soil saturated hydraulic conductivity in a vegetated sand dune area. <i>Environmental Earth Sciences</i> , 2015, 73, 7651-7660.	1.3	7
1128	Competitive separation of herbaceous and woody plant communities in steppe and forest zones. <i>Biology Bulletin Reviews</i> , 2015, 5, 148-155.	0.3	2
1129	Bedrock infiltration estimates from a catchment water storage-based modeling approach in the rain snow transition zone. <i>Journal of Hydrology</i> , 2015, 525, 231-248.	2.3	16
1130	Grazing increases below-ground biomass and net primary production in a temperate grassland. <i>Plant and Soil</i> , 2015, 392, 155-162.	1.8	73
1131	Characterization of fine root system and potential contribution to soil organic carbon of six perennial bioenergy crops. <i>Biomass and Bioenergy</i> , 2015, 83, 116-122.	2.9	49
1132	Enhanced precipitation variability decreases grass- and increases shrub-productivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12735-12740.	3.3	212
1133	Seasonality and nitrogen supply modify carbon partitioning in understory vegetation of a boreal coniferous forest. <i>Ecology</i> , 2016, 97, 671-683.	1.5	9
1134	How does biomass distribution change with size and differ among species? An analysis for 1200 plant species from five continents. <i>New Phytologist</i> , 2015, 208, 736-749.	3.5	239
1135	Functional Responses of Woody <i>Prosopis caldenia</i> Seedlings to Drought and Livestock Grazing in Semiarid Rangelands of Argentina. <i>Arid Land Research and Management</i> , 2015, 29, 487-502.	0.6	5
1136	Responses of two understory herbs, <i>Maianthemum canadense</i> and <i>Eurybia macrophylla</i> , to experimental forest warming: Early emergence is the key to enhanced reproductive output. <i>American Journal of Botany</i> , 2015, 102, 1610-1624.	0.8	31
1137	Phytoscreening with SPME: Variability Analysis. <i>International Journal of Phytoremediation</i> , 2015, 17, 1115-1122.	1.7	8
1138	Root distribution and water use in coffee shaded with <i>Tabebuia rosea</i> Bertol. and <i>Simarouba glauca</i> DC. compared to full sun coffee in sub-optimal environmental conditions. <i>Agroforestry Systems</i> , 2015, 89, 857-868.	0.9	39
1139	Quantifying ecological memory in plant and ecosystem processes. <i>Ecology Letters</i> , 2015, 18, 221-235.	3.0	324
1140	Leaf nitrogen and phosphorus of temperate desert plants in response to climate and soil nutrient availability. <i>Scientific Reports</i> , 2014, 4, 6932.	1.6	74
1141	Subsurface soil textural control of aboveground productivity in the US Desert Southwest. <i>Geoderma Regional</i> , 2015, 4, 44-54.	0.9	12
1142	Contrasting above- and belowground sensitivity of three Great Plains grasslands to altered rainfall regimes. <i>Global Change Biology</i> , 2015, 21, 335-344.	4.2	141

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1143	Root stock biomass and productivity assessments of reforested pine stands in northern Mexico. <i>Forest Ecology and Management</i> , 2015, 338, 139-147.	1.4	5
1144	No shift to a deeper water uptake depth in response to summer drought of two lowland and sub-alpine C3-grasslands in Switzerland. <i>Oecologia</i> , 2015, 177, 97-111.	0.9	71
1145	Changes in belowground biomass after coppice in two <i>Populus</i> genotypes. <i>Forest Ecology and Management</i> , 2015, 337, 1-10.	1.4	33
1146	Root structural and functional dynamics in terrestrial biosphere models – evaluation and recommendations. <i>New Phytologist</i> , 2015, 205, 59-78.	3.5	214
1147	Influences of evergreen gymnosperm and deciduous angiosperm tree species on the functioning of temperate and boreal forests. <i>Biological Reviews</i> , 2015, 90, 444-466.	4.7	267
1148	Geotechnical systems that evolve with ecological processes. <i>Environmental Earth Sciences</i> , 2015, 73, 1067-1082.	1.3	20
1149	Carbon fluxes, storage and harvest removals through 60years of stand development in red pine plantations and mixed hardwood stands in Northern Michigan, USA. <i>Forest Ecology and Management</i> , 2015, 337, 88-97.	1.4	25
1150	Deep soil: Quantification, modeling, and significance of subsurface nitrogen. <i>Forest Ecology and Management</i> , 2015, 336, 194-202.	1.4	14
1151	Year-round warming and autumnal clipping lead to downward transport of root biomass, carbon and total nitrogen in soil of an alpine meadow. <i>Environmental and Experimental Botany</i> , 2015, 109, 54-62.	2.0	51
1152	Resource economics and coordination among above- and below-ground functional traits of three dominant shrubs from the Chilean coastal desert. <i>Journal of Plant Ecology</i> , 2015, 8, 70-78.	1.2	15
1153	Spatial heterogeneity of fine root biomass and soil carbon in a California oak savanna illuminates plant functional strategy across periods of high and low resource supply. <i>Ecohydrology</i> , 2015, 8, 294-308.	1.1	11
1154	Impacts of Road Expansion on Deforestation and Biological Carbon Loss in the Democratic Republic of Congo. <i>Environmental and Resource Economics</i> , 2015, 60, 433-469.	1.5	18
1155	An inversion approach for determining distribution of production and temperature sensitivity of soil respiration. <i>Biogeosciences</i> , 2016, 13, 2111-2122.	1.3	6
1156	The importance of a surface organic layer in simulating permafrost thermal and carbon dynamics. <i>Cryosphere</i> , 2016, 10, 465-475.	1.5	29
1158	Improved representations of coupled soil–canopy processes in the CABLE land surface model (Subversion revision 3432). <i>Geoscientific Model Development</i> , 2016, 9, 3111-3122.	1.3	45
1159	Condição física e desenvolvimento radicular de gramíneas em solo construído após mineração de carvão. <i>Pesquisa Agropecuária Brasileira</i> , 2016, 51, 1078-1087.	0.9	4
1160	Global root zone storage capacity from satellite-based evaporation. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 1459-1481.	1.9	107
1161	Competition between plant functional types in the Canadian Terrestrial Ecosystem Model (CTEM) v.2.0. <i>Geoscientific Model Development</i> , 2016, 9, 323-361.	1.3	95

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1162	C4 Grasses: Resource Use, Ecology, and Global Change. <i>Agronomy</i> , 2016, , 15-50.	0.2	11
1163	The Greenness of Major Shrublands in China Increased from 2001 to 2013. <i>Remote Sensing</i> , 2016, 8, 121.	1.8	8
1164	Tree Age Effects on Fine Root Biomass and Morphology over Chronosequences of <i>Fagus sylvatica</i> , <i>Quercus robur</i> and <i>Alnus glutinosa</i> Stands. <i>PLoS ONE</i> , 2016, 11, e0148668.	1.1	51
1165	Nitrogen Fertilization Effects on Productivity and Nitrogen Loss in Three Grass-Based Perennial Bioenergy Cropping Systems. <i>PLoS ONE</i> , 2016, 11, e0151919.	1.1	39
1166	<i>Global Biogeography</i> . , 0, , 422-450.		0
1167	Why Be a Shrub? A Basic Model and Hypotheses for the Adaptive Values of a Common Growth Form. <i>Frontiers in Plant Science</i> , 2016, 7, 1095.	1.7	64
1168	Evapotranspiration and Ecosystem Water Use Efficiency of Switchgrass and High Biomass Sorghum. <i>Agronomy Journal</i> , 2016, 108, 1007-1019.	0.9	40
1169	Seasonality and nitrogen supply modify carbon partitioning in understory vegetation of a boreal coniferous forest. <i>Ecology</i> , 2016, 97, 671-83.	1.5	3
1170	Global patterns and climate drivers of water-use efficiency in terrestrial ecosystems deduced from satellite-based datasets and carbon cycle models. <i>Global Ecology and Biogeography</i> , 2016, 25, 311-323.	2.7	102
1171	Pragmatic hydraulic theory predicts stomatal responses to climatic water deficits. <i>New Phytologist</i> , 2016, 212, 577-589.	3.5	168
1172	High-resolution isotope measurements resolve rapid ecohydrological dynamics at the soil-plant interface. <i>New Phytologist</i> , 2016, 210, 839-849.	3.5	149
1173	High-resolution modeling of coastal freshwater discharge and glacier mass balance in the Gulf of Alaska watershed. <i>Water Resources Research</i> , 2016, 52, 3888-3909.	1.7	65
1174	The hidden season: growing season is 50% longer below than above ground along an arctic elevation gradient. <i>New Phytologist</i> , 2016, 209, 978-986.	3.5	100
1175	Long-Term Changes in Soil Carbon Stocks in the Brazilian Cerrado Under Commercial Soybean. <i>Land Degradation and Development</i> , 2016, 27, 1586-1594.	1.8	22
1176	A framework for partitioning plant rooting profiles from neighbours using multiple data types. <i>Journal of Vegetation Science</i> , 2016, 27, 587-595.	1.1	1
1177	Competitive avoidance not edaphic specialization drives vertical niche partitioning among sister species of ectomycorrhizal fungi. <i>New Phytologist</i> , 2016, 209, 1174-1183.	3.5	43
1178	Spatiotemporal patterns of water table fluctuations and evapotranspiration induced by riparian vegetation in a semiarid area. <i>Water Resources Research</i> , 2016, 52, 1948-1960.	1.7	39
1179	Root properties of vegetation communities and their impact on the erosion resistance of river dikes. <i>Earth Surface Processes and Landforms</i> , 2016, 41, 2038-2046.	1.2	41

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1180	Concurrent and antecedent soil moisture relate positively or negatively to probability of large wildfires depending on season. <i>International Journal of Wildland Fire</i> , 2016, 25, 657.	1.0	45
1181	Constraints on Nutrient Dynamics in Terrestrial Vegetation. , 2016, , 254-291.		3
1182	Plant-derived compounds stimulate the decomposition of organic matter in arctic permafrost soils. <i>Scientific Reports</i> , 2016, 6, 25607.	1.6	87
1183	Biophysical controls over concentration and depth distribution of soil organic carbon and nitrogen in desert playas. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 3019-3029.	1.3	12
1184	Root traits explain observed tundra vegetation nitrogen uptake patterns: Implications for trait-based land models. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 3101-3112.	1.3	52
1185	Comparison of carbon and nitrogen storage in mineral soils of graminoid and shrub tundra sites, western Greenland. <i>Arctic Science</i> , 2016, 2, 165-182.	0.9	9
1186	Numerical Modeling of Coupled Water Flow and Heat Transport in Soil and Snow. <i>Soil Science Society of America Journal</i> , 2016, 80, 247-263.	1.2	26
1187	Impacts of Noah model physics on catchment-scale runoff simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 807-832.	1.2	26
1188	Convergent approaches to determine an ecosystem's transpiration fraction. <i>Global Biogeochemical Cycles</i> , 2016, 30, 933-951.	1.9	75
1189	Soil Water Monitoring and Numerical Flow Modeling to Quantify Drought Conditions in a Rangeland Ecosystem. <i>Vadose Zone Journal</i> , 2016, 15, 1-12.	1.3	4
1190	Leaf litter thickness, but not plant species, can affect root detection by ground penetrating radar. <i>Plant and Soil</i> , 2016, 408, 271-283.	1.8	12
1191	Vegetation Structure and Function at Multiple Spatial, Temporal and Conceptual Scales. <i>Geobotany Studies</i> , 2016, , .	0.2	7
1192	Root production in contrasting ecosystems: the impact of rhizotron sampling frequency. <i>Plant Ecology</i> , 2016, 217, 1359-1367.	0.7	5
1193	Understorey fine root mass and morphology in the litter and upper soil layers of three Chinese subtropical forests. <i>Plant and Soil</i> , 2016, 406, 219-230.	1.8	20
1194	Temperature sensitivity of organic matter decomposition of permafrost-region soils during laboratory incubations. <i>Soil Biology and Biochemistry</i> , 2016, 97, 1-14.	4.2	73
1195	Reliance on shallow soil water in a mixed-hardwood forest in central Pennsylvania. <i>Tree Physiology</i> , 2016, 36, 444-458.	1.4	74
1196	The distribution variation and key influencing factors of soil organic carbon of natural deciduous broadleaf forests along the latitudinal gradient. <i>Acta Ecologica Sinica</i> , 2016, 36, 333-339.	0.9	7
1197	Soil aggregation and root growth of perennial grasses in a constructed clay minesoil. <i>Soil and Tillage Research</i> , 2016, 161, 71-78.	2.6	36

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1198	The relative importance of vertical soil nutrient heterogeneity, and mean and depth-specific soil nutrient availabilities for tree species richness in tropical forests and woodlands. <i>Oecologia</i> , 2016, 182, 877-888.	0.9	9
1199	Assessing the role of soil water limitation in determining the Phytotoxic Ozone Dose (PODY) thresholds. <i>Atmospheric Environment</i> , 2016, 147, 88-97.	1.9	39
1200	Soil temperature modifies effects of soil biota on plant growth. <i>Journal of Plant Ecology</i> , 0, , rtw097.	1.2	20
1201	Impacts of water regime and land-use on soil CO ₂ efflux in a small temperate agricultural catchment. <i>Biogeochemistry</i> , 2016, 130, 267-288.	1.7	9
1202	Dynamics of water uptake by maize on sloping farmland in a shallow Entisol in Southwest China. <i>Catena</i> , 2016, 147, 511-521.	2.2	10
1203	Estimating root: shoot ratio and soil carbon inputs in temperate grasslands with the RothC model. <i>Plant and Soil</i> , 2016, 407, 293-305.	1.8	36
1204	The microbial aspect of climate change. <i>Energy, Ecology and Environment</i> , 2016, 1, 209-232.	1.9	70
1205	Global estimation of effective plant rooting depth: Implications for hydrological modeling. <i>Water Resources Research</i> , 2016, 52, 8260-8276.	1.7	162
1206	Root distribution of three dominant desert shrubs and their water uptake dynamics. <i>Journal of Plant Ecology</i> , 0, , rtw079.	1.2	7
1207	Relationship of plant diversity with litter and soil available nitrogen in an alpine meadow under a 9-year grazing exclusion. <i>Ecological Research</i> , 2016, 31, 841-851.	0.7	21
1208	Local-scale determinants of elemental stoichiometry of soil in an old-growth temperate forest. <i>Plant and Soil</i> , 2016, 408, 401-414.	1.8	11
1209	Competition for resources is ameliorated by niche differentiation between <i>Solidago virgaurea</i> life-history stages in the Arctic. <i>Journal of Plant Ecology</i> , 2016, , rtw123.	1.2	0
1210	The sign and magnitude of tree-grass interaction along a global environmental gradient. <i>Global Ecology and Biogeography</i> , 2016, 25, 1510-1519.	2.7	22
1211	Using the root spread information of pioneer plants to quantify their mitigation potential against shallow landslides and erosion in temperate humid climates. <i>Ecological Engineering</i> , 2016, 95, 302-315.	1.6	28
1212	A belowground perspective on the drought sensitivity of forests: Towards improved understanding and simulation. <i>Forest Ecology and Management</i> , 2016, 380, 309-320.	1.4	92
1213	Microbial recycling of dissolved organic matter confines plant nitrogen uptake to inorganic forms in a semi-arid ecosystem. <i>Soil Biology and Biochemistry</i> , 2016, 101, 142-151.	4.2	23
1214	Global change effects on humid tropical forests: Evidence for biogeochemical and biodiversity shifts at an ecosystem scale. <i>Reviews of Geophysics</i> , 2016, 54, 523-610.	9.0	73
1215	Incorporation of a dynamic root distribution into CLM4.5: Evaluation of carbon and water fluxes over the Amazon. <i>Advances in Atmospheric Sciences</i> , 2016, 33, 1047-1060.	1.9	18

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1216	Mean root trait more than root trait diversity determines drought resilience in native and cultivated Mediterranean grass mixtures. <i>Agriculture, Ecosystems and Environment</i> , 2016, 231, 122-132.	2.5	51
1217	Plant $\delta^{15}N$ reflects the high landscape-scale heterogeneity of soil fertility and vegetation productivity in a Mediterranean semiarid ecosystem. <i>New Phytologist</i> , 2016, 212, 1030-1043.	3.5	33
1218	Ecosystem resilience to the Millennium drought in southeast Australia (2001-2009). <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2312-2327.	1.3	17
1219	The Biogeochemistry of the Main Forest Vegetation Types in Amazonia. <i>Ecological Studies</i> , 2016, , 225-266.	0.4	4
1220	Impacts of chronic N input on the carbon and nitrogen storage of a postfire Mediterranean-type shrubland. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 385-398.	1.3	16
1221	More than carbon sequestration: Biophysical climate benefits of restored savanna woodlands. <i>Scientific Reports</i> , 2016, 6, 29194.	1.6	37
1222	Dynamics of competition over water in a mixed oak-pine Mediterranean forest: Spatio-temporal and physiological components. <i>Forest Ecology and Management</i> , 2016, 382, 214-224.	1.4	51
1223	A process-based model of methane consumption by upland soils. <i>Environmental Research Letters</i> , 2016, 11, 075001.	2.2	31
1224	Relationships Between Soil Carbon and Soil Texture in the Northern Great Plains. <i>Soil Science</i> , 2016, 181, 386-392.	0.9	45
1225	Seasonal trends of Amazonian rainforest phenology, net primary productivity, and carbon allocation. <i>Global Biogeochemical Cycles</i> , 2016, 30, 700-715.	1.9	43
1226	Climate and edaphic controllers influence rhizosphere community assembly for a wild annual grass. <i>Ecology</i> , 2016, 97, 1307-1318.	1.5	111
1227	Ellenberg's water table experiment put to the test: species optima along a hydrological gradient. <i>Oecologia</i> , 2016, 181, 1163-1172.	0.9	6
1228	A Model for Simulating the Soil Organic Carbon Pool of Steppe Ecosystems. <i>Environmental Modeling and Assessment</i> , 2016, 21, 339-355.	1.2	10
1229	Effect of soil temperature on root resistance: implications for different trees under Mediterranean conditions. <i>Tree Physiology</i> , 2016, 36, 469-478.	1.4	18
1230	Deep rooting and global change facilitate spread of invasive grass. <i>Biological Invasions</i> , 2016, 18, 2619-2631.	1.2	38
1231	Comparison of topsoil organic carbon and total nitrogen in different flood-risk riparian zones in a Chinese Karst area. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	3
1232	Surface-based GPR underestimates below-stump root biomass. <i>Plant and Soil</i> , 2016, 402, 47-62.	1.8	26
1233	Rapid assessment of soil organic matter: Soil color analysis and Fourier transform infrared spectroscopy. <i>Geoderma</i> , 2016, 278, 49-57.	2.3	47

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1234	Carbon and nitrogen storage in California sage scrub and non-native grassland habitats. <i>Journal of Arid Environments</i> , 2016, 129, 119-125.	1.2	15
1235	Changes in soil quality and carbon storage under biofuel crops in central Ohio. <i>Soil Research</i> , 2016, 54, 371.	0.6	18
1236	Correlates of range size variation in the Australian seedâ€plant flora. <i>Journal of Biogeography</i> , 2016, 43, 1287-1298.	1.4	31
1237	Urban trees reduce nutrient leaching to groundwater. <i>Ecological Applications</i> , 2016, 26, 1566-1580.	1.8	32
1238	Disentangling the roles of resource availability and disturbance in fine and coarse root biomass in savanna. <i>Austral Ecology</i> , 2016, 41, 255-262.	0.7	7
1239	Determination of rice root density at the field level using visible and near-infrared reflectance spectroscopy. <i>Geoderma</i> , 2016, 267, 174-184.	2.3	11
1240	Effects of land-use types on the vertical distribution of fractions of oxidizable organic carbon on the Loess Plateau, China. <i>Journal of Arid Land</i> , 2016, 8, 221-231.	0.9	13
1241	Effect of different vegetation cover on the vertical distribution of soil organic and inorganic carbon in the Zhifanggou Watershed on the loess plateau. <i>Catena</i> , 2016, 139, 191-198.	2.2	97
1242	Feasibility analysis of using inverse modeling for estimating natural groundwater recharge from a large-scale soil moisture monitoring network. <i>Journal of Hydrology</i> , 2016, 533, 250-265.	2.3	44
1243	Functional composition rather than species richness determines root characteristics of experimental grasslands grown at different light and nutrient availability. <i>Plant and Soil</i> , 2016, 404, 399-412.	1.8	14
1244	Vegetation Functional Types and Traits at Multiple Scales. <i>Geobotany Studies</i> , 2016, , 53-97.	0.2	5
1245	Carbon input and partitioning in subsoil by chicory and alfalfa. <i>Plant and Soil</i> , 2016, 406, 29-42.	1.8	23
1246	Plant community composition and phenological stage drive soil carbon cycling along a tree-meadow ecotone. <i>Plant and Soil</i> , 2016, 401, 231-242.	1.8	8
1247	Fine root distributions of shelterbelt trees and their water sources in an oasis of arid northwestern China. <i>Journal of Arid Environments</i> , 2016, 130, 30-39.	1.2	17
1248	Do arbuscular mycorrhizal fungi stabilize litterâ€derived carbon in soil?. <i>Journal of Ecology</i> , 2016, 104, 261-269.	1.9	84
1249	Maintenance of Root Function in Tropical Woody Species During Droughts: Hydraulic Redistribution, Refilling of Embolized Vessels, and Facilitation Between Plants. <i>Tree Physiology</i> , 2016, , 227-241.	0.9	3
1250	Live and dead shrubs and grasses have different facilitative and interfering effects on associated plants in arid Arabian deserts. <i>Journal of Arid Environments</i> , 2016, 125, 127-135.	1.2	15
1251	Modeling canopy conductance under contrasting seasonal conditions for a tropical savanna ecosystem of south central Mato Grosso, Brazil. <i>Agricultural and Forest Meteorology</i> , 2016, 218-219, 218-229.	1.9	29

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1252	Comparing root and shoot responses to nutrient additions and mowing in a restored semi-arid grassland. <i>Plant Ecology</i> , 2016, 217, 303-314.	0.7	8
1253	Contribution of <i>Acacia senegal</i> to biomass and soil carbon in plantations of varying age in Sudan. <i>Forest Ecology and Management</i> , 2016, 368, 71-80.	1.4	16
1254	Characterising groundwater use by vegetation using a surface energy balance model and satellite observations of land surface temperature. <i>Environmental Modelling and Software</i> , 2016, 80, 66-82.	1.9	18
1255	Root distribution by depth for temperate agricultural crops. <i>Field Crops Research</i> , 2016, 189, 68-74.	2.3	302
1256	Plant-soil feedbacks: a comparative study on the relative importance of soil feedbacks in the greenhouse versus the field. <i>Oecologia</i> , 2016, 181, 559-569.	0.9	88
1258	Influences of stand characteristics and environmental factors on forest biomass and root-to-shoot allocation in southwest China. <i>Ecological Engineering</i> , 2016, 91, 7-15.	1.6	32
1259	Modeling dynamics of ¹³⁷ Cs in forest surface environments: Application to a contaminated forest site near Fukushima and assessment of potential impacts of soil organic matter interactions. <i>Science of the Total Environment</i> , 2016, 551-552, 590-604.	3.9	36
1260	A high-throughput belowground plant diversity assay using next-generation sequencing of the trnL intron. <i>Plant and Soil</i> , 2016, 404, 361-372.	1.8	22
1261	The sensitivity of models of gross primary productivity to meteorological and leaf area forcing: A comparison between a Penman-Monteith ecophysiological approach and the MODIS Light-Use Efficiency algorithm. <i>Agricultural and Forest Meteorology</i> , 2016, 218-219, 11-24.	1.9	42
1262	The response of soil water and deep percolation under <i>Caragana microphylla</i> to rainfall in the Horqin Sand Land, northern China. <i>Catena</i> , 2016, 139, 82-91.	2.2	29
1263	Vegetation and Media Characteristics of an Effective Bioretention Cell. <i>Journal of Sustainable Water in the Built Environment</i> , 2016, 2, .	0.9	27
1264	Belowground carbon allocation patterns as determined by the in-growth soil core ¹³ C technique across different ecosystem types. <i>Geoderma</i> , 2016, 263, 140-150.	2.3	21
1265	Seedling establishment and physiological responses to temporal and spatial soil moisture changes. <i>New Forests</i> , 2016, 47, 223-241.	0.7	20
1266	Links between soil texture and root architecture of <i>Eucalyptus</i> species may limit distribution ranges under future climates. <i>Plant and Soil</i> , 2016, 403, 217-229.	1.8	14
1267	Complementarity of dung beetle species with different functional behaviours influence dung-to-soil carbon cycling. <i>Soil Biology and Biochemistry</i> , 2016, 92, 142-148.	4.2	34
1268	Carbon storage and nutrient mobilization from soil minerals by deep roots and rhizospheres. <i>Forest Ecology and Management</i> , 2016, 359, 322-331.	1.4	39
1269	Comparative assessment of ecosystem C exchange in <i>Miscanthus</i> and reed canary grass during early establishment. <i>GCB Bioenergy</i> , 2017, 9, 280-298.	2.5	9
1270	Conventional intensive logging promotes loss of organic carbon from the mineral soil. <i>Global Change Biology</i> , 2017, 23, 1-11.	4.2	47

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1271	A comparison of soil carbon dynamics in residential yards with and without trees. <i>Urban Ecosystems</i> , 2017, 20, 87-96.	1.1	8
1272	Fine-root trait plasticity of beech (<i>Fagus sylvatica</i>) and spruce (<i>Picea abies</i>) forests on two contrasting soils. <i>Plant and Soil</i> , 2017, 415, 175-188.	1.8	71
1273	Phosphorus in agricultural soils: drivers of its distribution at the global scale. <i>Global Change Biology</i> , 2017, 23, 3418-3432.	4.2	75
1274	Climate change reduces extent of temperate drylands and intensifies drought in deep soils. <i>Nature Communications</i> , 2017, 8, 14196.	5.8	282
1275	Climate variability and community stability in Mediterranean shrublands: the role of functional diversity and soil environment. <i>Journal of Ecology</i> , 2017, 105, 1335-1346.	1.9	32
1276	Predicting root zone soil moisture with soil properties and satellite near-surface moisture data across the conterminous United States. <i>Journal of Hydrology</i> , 2017, 546, 393-404.	2.3	61
1277	Nitrogen addition increases the production and turnover of the lower-order roots but not of the higher-order roots of <i>Bothriochloa ischaemum</i> . <i>Plant and Soil</i> , 2017, 415, 423-434.	1.8	22
1278	Aboveground and Belowground Biomass Relationships in the Zoige Peatland, Eastern Qinghaiâ€“Tibetan Plateau. <i>Wetlands</i> , 2017, 37, 461-469.	0.7	17
1279	Including root reinforcement variability in a probabilistic 3D stability model. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 1789-1806.	1.2	24
1280	Soil carbon response to woody plant encroachment: importance of spatial heterogeneity and deep soil storage. <i>Journal of Ecology</i> , 2017, 105, 1738-1749.	1.9	46
1281	Interactions between rainfall, fire and herbivory drive resprouter vital rates in a semiâ€“arid ecosystem. <i>Journal of Ecology</i> , 2017, 105, 1562-1570.	1.9	24
1282	Modeling nitrogen mineralization at surface and deep layers of sandy soils. <i>Archives of Agronomy and Soil Science</i> , 2017, 63, 870-882.	1.3	4
1283	Patterns of biomass allocation in <i>Haloxylon persicum</i> woodlands and their understory herbaceous layer along a groundwater depth gradient. <i>Forest Ecology and Management</i> , 2017, 395, 37-47.	1.4	16
1284	Discussion on â€“Tectonic and environmental controls on Palaeozoic fluvial environments: reassessing the impacts of early land plants on sedimentationâ€™ <i>Journal of the Geological Society</i> , London, https://doi.org/10.1144/jgs2016-063 . <i>Journal of the Geological Society</i> , 2017, 174, 947-950.	0.9	30
1285	Determination of rice root density from Visâ€“NIR spectroscopy by support vector machine regression and spectral variable selection techniques. <i>Catena</i> , 2017, 157, 12-23.	2.2	49
1286	Evaluating the impact of irrigation on surface water â€“ groundwater interaction and stream temperature in an agricultural watershed. <i>Science of the Total Environment</i> , 2017, 599-600, 581-596.	3.9	47
1287	Effects of optimized root water uptake parameterization schemes on water and heat flux simulation in a maize agroecosystem. <i>Journal of Meteorological Research</i> , 2017, 31, 363-377.	0.9	2
1288	Using bioavailable nutrients and microbial dynamics to assess soil type and placement depth in reclamation. <i>Applied Soil Ecology</i> , 2017, 116, 87-95.	2.1	13

#	ARTICLE	IF	CITATIONS
1289	Woody plant encroachment alters soil hydrological properties and reduces downward flux of water in tallgrass prairie. <i>Plant and Soil</i> , 2017, 414, 379-391.	1.8	28
1290	Biomass and nutrient allocation strategies in a desert ecosystem in the Hexi Corridor, northwest China. <i>Journal of Plant Research</i> , 2017, 130, 699-708.	1.2	16
1291	Distribution and storage of soil organic carbon in a coastal wetland under the pressure of human activities. <i>Journal of Soils and Sediments</i> , 2017, 17, 11-22.	1.5	8
1292	Accuracy of tree root biomass sampling methodologies for carbon mitigation projects. <i>Ecological Engineering</i> , 2017, 98, 264-274.	1.6	13
1293	Shrub encroachment by green alder on subalpine pastures: Changes in mineral soil organic carbon characteristics. <i>Catena</i> , 2017, 157, 35-46.	2.2	11
1294	Soil depth and crop determinants of bacterial communities under ten biofuel cropping systems. <i>Soil Biology and Biochemistry</i> , 2017, 112, 140-152.	4.2	61
1295	Site related $\delta^{13}C$ of vegetation and soil organic carbon in a cool temperate region. <i>Plant and Soil</i> , 2017, 418, 293-306.	1.8	13
1296	Shifting mechanisms of elevational diversity and biomass patterns in soil invertebrates at treeline. <i>Soil Biology and Biochemistry</i> , 2017, 113, 80-88.	4.2	13
1297	Spatial pattern of different component carbon in varied grasslands of northern China. <i>Geoderma</i> , 2017, 303, 27-36.	2.3	17
1298	Reclaiming saline areas in Khorat Basin (Northeast Thailand): Soil properties, species distribution, and germination of potential tolerant species. <i>Arid Land Research and Management</i> , 2017, 31, 235-252.	0.6	5
1299	Useful Drainage Estimates Obtained from a Large-scale Soil Moisture Monitoring Network by Applying the Unit-gradient Assumption. <i>Vadose Zone Journal</i> , 2017, 16, 1-15.	1.3	18
1300	Quantifying indirect groundwater-mediated effects of urbanization on agroecosystem productivity using MODFLOW-AgroIBIS (MAGI), a complete critical zone model. <i>Ecological Modelling</i> , 2017, 359, 201-219.	1.2	34
1301	Evaluating controls of soil properties and climatic conditions on the use of an exponential filter for converting near surface to root zone soil moisture contents. <i>Journal of Hydrology</i> , 2017, 548, 683-696.	2.3	25
1302	Small-scale modelling of plant root systems using 3D printing, with applications to investigate the role of vegetation on earthquake-induced landslides. <i>Landslides</i> , 2017, 14, 1747-1765.	2.7	49
1303	Quantification of 3D macropore networks in forest soils in Touzhai valley (Yunnan, China) using X-ray computed tomography and image analysis. <i>Journal of Mountain Science</i> , 2017, 14, 474-491.	0.8	10
1304	Growth and Function of Root Systems. , 2017, , 230-237.		2
1305	Root Characteristics of Herbaceous Species for Topsoil Stabilization in Restoration Projects. <i>Land Degradation and Development</i> , 2017, 28, 2074-2085.	1.8	30
1306	<i>Setaria viridis</i> : A Model for Understanding Panicoid Grass Root Systems. <i>Plant Genetics and Genomics: Crops and Models</i> , 2017, , 177-193.	0.3	3

#	ARTICLE	IF	CITATIONS
1307	Longtime effects of deep groundwater extraction management on water table levels in surface aquifers. <i>Journal of Soils and Sediments</i> , 2017, 17, 133-143.	1.5	10
1308	Evaluation of canopy-layer air and mean radiant temperature simulations by a microclimate model over a tropical residential neighbourhood. <i>Building and Environment</i> , 2017, 112, 177-189.	3.0	86
1309	Identifying drivers of root community compositional changes in semiarid grassland on the Loess plateau after long-term grazing exclusion. <i>Ecological Engineering</i> , 2017, 99, 13-21.	1.6	12
1310	Trait-based representation of hydrological functional properties of plants in weather and ecosystem models. <i>Plant Diversity</i> , 2017, 39, 1-12.	1.8	56
1311	Atmospheric pCO ₂ control on speleothem stable carbon isotope compositions. <i>Earth and Planetary Science Letters</i> , 2017, 458, 58-68.	1.8	44
1312	Co-variation of fine-root distribution with vegetation and soil properties along a revegetation chronosequence in a desert area in northwestern China. <i>Catena</i> , 2017, 151, 16-25.	2.2	15
1313	Genetics and Genomics of <i>Setaria</i> . <i>Plant Genetics and Genomics: Crops and Models</i> , 2017, , .	0.3	18
1314	Climate change-induced vegetation shifts lead to more ecological droughts despite projected rainfall increases in many global temperate drylands. <i>Global Change Biology</i> , 2017, 23, 2743-2754.	4.2	121
1315	Mechanical and biological approaches to alleviate soil compaction in tropical soils: assessed by root growth and activity (Rb uptake) of soybean and maize grown in rotation with cover crops. <i>Soil Use and Management</i> , 2017, 33, 141-152.	2.6	26
1316	Ecohydrological transformation in the Dry Chaco and the risk of dryland salinity: Following Australia's footsteps?. <i>Ecohydrology</i> , 2017, 10, e1822.	1.1	24
1317	Invasive <i>Bromus tectorum</i> alters natural selection in arid systems. <i>Journal of Ecology</i> , 2017, 105, 1509-1520.	1.9	25
1318	Conifer proportion explains fine root biomass more than tree species diversity and site factors in major European forest types. <i>Forest Ecology and Management</i> , 2017, 406, 330-350.	1.4	34
1319	Tree roots select specific bacterial communities in the subsurface critical zone. <i>Soil Biology and Biochemistry</i> , 2017, 115, 109-123.	4.2	14
1320	Positive effects of tree species richness on fine-root production in a subtropical forest in SE-China. <i>Journal of Plant Ecology</i> , 2017, 10, 146-157.	1.2	61
1321	Plant community composition influences fine root production and biomass allocation in perennial bioenergy cropping systems of the upper Midwest, USA. <i>Biomass and Bioenergy</i> , 2017, 105, 248-258.	2.9	52
1322	The interactive impact of root branch order and soil genetic horizon on root respiration and nitrogen concentration. <i>Tree Physiology</i> , 2017, 37, 1055-1068.	1.4	19
1323	Pedotransfer functions for predicting organic carbon in subsurface horizons of European soils. <i>European Journal of Soil Science</i> , 2017, 68, 716-725.	1.8	7
1324	How fast can conifers climb mountains? Investigating the effects of a changing climate on the viability of <i>Juniperus seravschanica</i> within the mountains of Oman, and developing a conservation strategy for this tree species. <i>Journal of Arid Environments</i> , 2017, 147, 40-53.	1.2	7

#	ARTICLE	IF	CITATIONS
1325	Hydrologic regulation of plant rooting depth. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10572-10577.	3.3	635
1326	Coordination of rooting depth and leaf hydraulic traits defines drought-related strategies in the campos rupestres, a tropical montane biodiversity hotspot. Plant and Soil, 2017, 420, 467-480.	1.8	39
1327	Biophysical effects on temperature and precipitation due to land cover change. Environmental Research Letters, 2017, 12, 053002.	2.2	154
1328	Root chemistry and soil fauna, but not soil abiotic conditions explain the effects of plant diversity on root decomposition. Oecologia, 2017, 185, 499-511.	0.9	13
1329	Taxonomic and functional shifts in the beech rhizosphere microbiome across a natural soil toposequence. Scientific Reports, 2017, 7, 9604.	1.6	77
1330	The response of carbon storage to the age of three forest plantations in the Loess Hilly Regions of China. Catena, 2017, 159, 106-114.	2.2	17
1331	Scaling of the reinforcement of soil slopes by living plants in a geotechnical centrifuge. Ecological Engineering, 2017, 109, 207-227.	1.6	70
1332	Large uncertainty in soil carbon modelling related to method of calculation of plant carbon input in agricultural systems. European Journal of Soil Science, 2017, 68, 953-963.	1.8	41
1333	Stability of buried carbon in deep-ploughed forest and cropland soils - implications for carbon stocks. Scientific Reports, 2017, 7, 5511.	1.6	35
1334	Assessment of the SMAP Level-4 Surface and Root-Zone Soil Moisture Product Using In Situ Measurements. Journal of Hydrometeorology, 2017, 18, 2621-2645.	0.7	196
1335	Physical environmental controls on riparian root profiles associated with black poplar (<i>Populus nigra</i> L.) along the Tagliamento River, Italy. Earth Surface Processes and Landforms, 2017, 42, 1262-1273.	1.2	14
1336	Significant inconsistency of vegetation carbon density in CMIP5 Earth system models against observational data. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 2282-2297.	1.3	17
1337	Climate moderates potential shifts in streamflow from changes in pinyon-juniper woodland cover across the western U.S. Hydrological Processes, 2017, 31, 3489-3503.	1.1	3
1338	Collar insertion depth effects on soil respiration in afforested peatlands. Biology and Fertility of Soils, 2017, 53, 677-689.	2.3	11
1339	Dynamics of above-ground and below-ground biomass of <i>Rumex crispus</i> , <i>Rumex obtusifolius</i> and the new weedy species <i>Rumex</i> hybrid cv. <i>R. patientia</i> Tj ETQ 0 0 rgBT /Overlo		
1340	Mangrove root biomass and the uncertainty of belowground carbon estimations. Forest Ecology and Management, 2017, 403, 52-60.	1.4	76
1341	Changes in Soil Organic Carbon Dynamics in a Native C4 Plant-Dominated Tidal Marsh Following <i>Spartina alterniflora</i> Invasion. Pedosphere, 2017, 27, 856-867.	2.1	24
1342	Effects of sediment removal and surrounding land use on carbon and nitrogen storage in playas and watersheds in the Rainwater Basin region of Nebraska. Soil and Tillage Research, 2017, 174, 169-176.	2.6	8

#	ARTICLE	IF	CITATIONS
1343	Potential contributions of root decomposition to the nitrogen cycle in arctic forest and tundra. <i>Ecology and Evolution</i> , 2017, 7, 11021-11032.	0.8	4
1344	Toward a methodical framework for comprehensively assessing forest multifunctionality. <i>Ecology and Evolution</i> , 2017, 7, 10652-10674.	0.8	41
1346	The geospatial modelling of carbon sequestration in Oluwa Forest, Ondo State, Nigeria. <i>European Journal of Remote Sensing</i> , 2017, 50, 397-413.	1.7	10
1347	Spatio-temporal change of ecosystem services as a key to understand natural resource utilization in Southern Chile. <i>Regional Environmental Change</i> , 2017, 17, 2477-2493.	1.4	19
1348	A framework to improve hyper-resolution hydrological simulation in snow-affected regions. <i>Journal of Hydrology</i> , 2017, 552, 1-12.	2.3	21
1349	The symbionts made me do it: legumes are not hardwired for high nitrogen concentrations but incorporate more nitrogen when inoculated. <i>New Phytologist</i> , 2017, 213, 690-699.	3.5	31
1350	Interspecific variation of tree root architecture in a temperate agroforestry system characterized using ground-penetrating radar. <i>Plant and Soil</i> , 2017, 410, 323-334.	1.8	30
1351	Soil water balance dynamics on reclaimed mine land in the southwestern United States. <i>Journal of Arid Environments</i> , 2017, 136, 28-37.	1.2	16
1352	Does grassland introduction into cropping cycles affect carbon dynamics through changes of allocation of soil organic matter within aggregate fractions?. <i>Science of the Total Environment</i> , 2017, 576, 251-263.	3.9	40
1353	The Role of Climatic Anomalies and Soil Moisture in the Decline of Drought-Prone Forests. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 503-514.	2.3	21
1354	Importance of deep water uptake in tropical eucalypt forest. <i>Functional Ecology</i> , 2017, 31, 509-519.	1.7	137
1355	Plant species richness negatively affects root decomposition in grasslands. <i>Journal of Ecology</i> , 2017, 105, 209-218.	1.9	41
1356	Sensitivity of soil carbon fractions and their specific stabilization mechanisms to extreme soil warming in a subarctic grassland. <i>Global Change Biology</i> , 2017, 23, 1316-1327.	4.2	70
1357	Ecosystem carbon density and allocation across a chronosequence of longleaf pine forests. <i>Ecological Applications</i> , 2017, 27, 244-259.	1.8	40
1358	Factors affecting soil moisture spatial variability for a humid forest hillslope. <i>Hydrological Processes</i> , 2017, 31, 431-445.	1.1	73
1359	A soil-plant-atmosphere continuum (SPAC) model for simulating tree transpiration with a soil multi-compartment solution. <i>Plant and Soil</i> , 2017, 412, 215-233.	1.8	31
1360	Mass, nutrient pool, and mineralization of litter and fine roots in a tropical mountain cloud forest. <i>Science of the Total Environment</i> , 2017, 575, 876-886.	3.9	24
1361	Impact of ponderosa pine afforestations on soil organic matter (SOM) in semiarid steppes of western Patagonia, Argentina. <i>Agroforestry Systems</i> , 2017, 91, 895-900.	0.9	3

#	ARTICLE	IF	CITATIONS
1362	The effect of plant water storage on water fluxes within the coupled soil-plant system. <i>New Phytologist</i> , 2017, 213, 1093-1106.	3.5	86
1363	Overlooking what is underground: Root:shoot ratios and coarse root allometric equations for tropical forests. <i>Forest Ecology and Management</i> , 2017, 385, 10-15.	1.4	32
1364	Contrasting strategies of hydraulic control in two codominant temperate tree species. <i>Ecohydrology</i> , 2017, 10, e1815.	1.1	102
1365	Review: Current and emerging methods for catchment-scale modelling of recharge and evapotranspiration from shallow groundwater. <i>Hydrogeology Journal</i> , 2017, 25, 3-23.	0.9	67
1366	Belowground herbivory decreases shoot water content and biomass of <i>Lolium perenne</i> seedlings under nutrient-poor conditions. <i>Botany</i> , 2017, 95, 29-36.	0.5	4
1367	Using precipitation, vertical root distribution, and satellite-retrieved vegetation information to parameterize water stress in a <i>Penman-Monteith</i> approach to evapotranspiration modeling under <i>Mediterranean</i> climate. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 168-192.	1.3	36
1368	A groundwater ecosystem classification - the next steps. <i>International Journal of Water</i> , 2017, 11, 328.	0.1	2
1370	Differentiating Wheat Genotypes by Bayesian Hierarchical Nonlinear Mixed Modeling of Wheat Root Density. <i>Frontiers in Plant Science</i> , 2017, 8, 282.	1.7	15
1371	Differential Responses of Soil Microbial Community to Four-Decade Long Grazing and Cultivation in a Semi-Arid Grassland. <i>Sustainability</i> , 2017, 9, 128.	1.6	12
1372	Determination of Growth Stage-Specific Crop Coefficients (Kc) of Sunflowers (<i>Helianthus annuus</i> L.) under Salt Stress. <i>Water (Switzerland)</i> , 2017, 9, 215.	1.2	16
1373	Mapping Changes in Carbon Storage and Productivity Services Provided by Riparian Ecosystems of Semi-Arid Environments in Northwestern Mexico. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 298.	1.4	14
1374	Both seed germination and seedling mortality increase with experimental warming and fertilization in a subarctic tundra. <i>AoB PLANTS</i> , 2017, 9, plx040.	1.2	16
1375	Microbial Taxa Distribution Is Associated with Ecological Trophic Cascades along an Elevation Gradient. <i>Frontiers in Microbiology</i> , 2017, 8, 2071.	1.5	144
1376	Grassland Communities and Ecosystems <i>at</i> ., 2017, . .		1
1377	Soil water stable isotopes reveal evaporation dynamics at the soil-plant-atmosphere interface of the critical zone. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 3839-3858.	1.9	119
1378	Effects of Root Distribution and Root Water Compensation on Simulated Water Use in Maize Influenced by Shallow Groundwater. <i>Vadose Zone Journal</i> , 2017, 16, 1-15.	1.3	12
1379	Sequential assimilation of satellite-derived vegetation and soil moisture products using SURFEX_v8.0: LDAS-Monde assessment over the Euro-Mediterranean area. <i>Geoscientific Model Development</i> , 2017, 10, 3889-3912.	1.3	88
1380	Ecohydrological processes and ecosystem services in the Anthropocene: a review. <i>Ecological Processes</i> , 2017, 6, .	1.6	67

#	ARTICLE	IF	CITATIONS
1381	Earth System Model Needs for Including the Interactive Representation of Nitrogen Deposition and Drought Effects on Forested Ecosystems. <i>Forests</i> , 2017, 8, 267.	0.9	21
1385	Future supply and demand of net primary production in the Sahel. <i>Earth System Dynamics</i> , 2017, 8, 1191-1221.	2.7	3
1386	A restauração de ecossistemas e a produção de água. <i>Hoehnea (revista)</i> , 2017, 44, 315-327.	0.2	27
1387	A dual-biomarker approach for quantification of changes in relative humidity from sedimentary lipid <i>D</i> <i>H</i> ratios. <i>Climate of the Past</i> , 2017, 13, 741-757.	1.3	49
1388	Technical note: Application of geophysical tools for tree root studies in forest ecosystems in complex soils. <i>Biogeosciences</i> , 2017, 14, 5343-5357.	1.3	23
1389	Opportunities and limitations related to the application of plant-derived lipid molecular proxies in soil science. <i>Soil</i> , 2017, 3, 211-234.	2.2	59
1390	Climate Change Impacts on Net Ecosystem Productivity in a Subtropical Shrubland of Northwestern Mexico. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 688-711.	1.3	13
1391	The effects of organic and mineral fertilizers on carbon sequestration, soil properties, and crop yields from a long-term field experiment under a Swiss conventional farming system. <i>Land Degradation and Development</i> , 2018, 29, 926-938.	1.8	105
1393	Dryland soils in northern China sequester carbon during the early 2000s warming hiatus period. <i>Functional Ecology</i> , 2018, 32, 1620-1630.	1.7	18
1394	Using repeat electrical resistivity surveys to assess heterogeneity in soil moisture dynamics under contrasting vegetation types. <i>Journal of Hydrology</i> , 2018, 559, 684-697.	2.3	33
1395	Mapping the vertical distribution of maize roots in China in relation to climate and soil texture. <i>Journal of Plant Ecology</i> , 2018, 11, 899-908.	1.2	11
1396	Hydraulic redistribution affects modeled carbon cycling via soil microbial activity and suppressed fire. <i>Global Change Biology</i> , 2018, 24, 3472-3485.	4.2	17
1397	Quantitative relationships between fine roots and stand characteristics. <i>European Journal of Forest Research</i> , 2018, 137, 385-399.	1.1	7
1398	Stand development and other intrinsic factors largely control fine-root dynamics with only subtle modifications from resource availability. <i>Tree Physiology</i> , 2018, 38, 1805-1819.	1.4	23
1399	Piecing together the fragments: elucidating edge effects on forest carbon dynamics. <i>Frontiers in Ecology and the Environment</i> , 2018, 16, 213-221.	1.9	52
1400	Joint structural and physiological control on the interannual variation in productivity in a temperate grassland: A data-model comparison. <i>Global Change Biology</i> , 2018, 24, 2965-2979.	4.2	53
1401	Tundra plant above-ground biomass and shrub dominance mapped across the North Slope of Alaska. <i>Environmental Research Letters</i> , 2018, 13, 035002.	2.2	78
1402	Modelling biome-scale root reinforcement and slope stability. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 2157-2166.	1.2	18

#	ARTICLE	IF	CITATIONS
1403	Water use strategies of <i>Populus euphratica</i> seedlings under groundwater fluctuation in the Tarim River Basin of Central Asia. <i>Catena</i> , 2018, 166, 89-97.	2.2	14
1404	Global patterns of dead fine root stocks in forest ecosystems. <i>Journal of Biogeography</i> , 2018, 45, 1378-1394.	1.4	17
1405	Root responses to elevated CO_2 , warming and irrigation in a semi-arid grassland: Integrating biomass, length and life span in a 5-year field experiment. <i>Journal of Ecology</i> , 2018, 106, 2176-2189.	1.9	39
1406	Simple estimation of available water capacity in soils of semiarid and subhumid environments. <i>Arid Land Research and Management</i> , 2018, 32, 133-148.	0.6	2
1407	Visual soil evaluation: reproducibility and correlation with standard measurements. <i>Soil and Tillage Research</i> , 2018, 178, 167-178.	2.6	20
1408	Rooting strategies in a subtropical savanna: a landscape-scale three-dimensional assessment. <i>Oecologia</i> , 2018, 186, 1127-1135.	0.9	9
1409	Association of ectomycorrhizal trees with high carbon-to-nitrogen ratio soils across temperate forests is driven by smaller nitrogen not larger carbon stocks. <i>Journal of Ecology</i> , 2018, 106, 524-535.	1.9	50
1410	Wolf-triggered trophic cascades and stream channel dynamics in Olympic National Park: a comment on East <i>et al</i> . (2017). <i>Earth Surface Processes and Landforms</i> , 2018, 43, 930-935.	1.2	0
1411	Reliance on deep soil water in the tree species <i>Argania spinosa</i> . <i>Tree Physiology</i> , 2018, 38, 678-689.	1.4	31
1412	Response of phreatophytes to short-term groundwater pumping in a semiarid region: Field experiments and numerical simulations. <i>Ecohydrology</i> , 2018, 11, e1948.	1.1	5
1413	Elevation alters carbon and nutrient concentrations and stoichiometry in <i>Quercus aquifolioides</i> in southwestern China. <i>Science of the Total Environment</i> , 2018, 622-623, 1463-1475.	3.9	19
1414	Soil Carbon Dynamics Under Different Land Uses in Dryland Mediterranean Conditions. , 2018, , 39-52.		1
1415	Land use affected nutrient mass with minor impact on stoichiometry ratios in Pampean soils. <i>Nutrient Cycling in Agroecosystems</i> , 2018, 110, 257-276.	1.1	12
1416	Soil phosphorus does not keep pace with soil carbon and nitrogen accumulation following woody encroachment. <i>Global Change Biology</i> , 2018, 24, 1992-2007.	4.2	31
1417	Tradeoffs between water requirements and yield stability in annual vs. perennial crops. <i>Advances in Water Resources</i> , 2018, 112, 189-202.	1.7	38
1418	Unexpected drought resistance strategies in seedlings of four <i>Brachychiton</i> species. <i>Tree Physiology</i> , 2018, 38, 664-677.	1.4	15
1419	Assessment of soil organic carbon fractions and carbon management index under different land use types in Olesharo Catchment, Narok County, Kenya. <i>Carbon Balance and Management</i> , 2018, 13, 4.	1.4	67
1420	One-, Two- and Three-Dimensional Pedogenetic Models. <i>Progress in Soil Science</i> , 2018, , 555-593.	0.4	1

#	ARTICLE	IF	CITATIONS
1421	Effects of field experimental warming on wheat root distribution under conventional tillage and no-tillage systems. <i>Ecology and Evolution</i> , 2018, 8, 2418-2427.	0.8	5
1422	A net ecosystem carbon budget for snow dominated forested headwater catchments: linking water and carbon fluxes to critical zone carbon storage. <i>Biogeochemistry</i> , 2018, 138, 225-243.	1.7	17
1423	Mean annual precipitation predicts primary production resistance and resilience to extreme drought. <i>Science of the Total Environment</i> , 2018, 636, 360-366.	3.9	109
1424	Responses of soil moisture to vegetation restoration type and slope length on the loess hillslope. <i>Journal of Mountain Science</i> , 2018, 15, 548-562.	0.8	18
1425	Soil organic carbon stocks in three Canadian agroforestry systems: From surface organic to deeper mineral soils. <i>Forest Ecology and Management</i> , 2018, 417, 103-109.	1.4	36
1426	Perennial warm-season grass monocultures and mixtures: Biomass production and soil improvement in semiarid and shallow soil conditions. <i>Journal of Arid Environments</i> , 2018, 154, 82-88.	1.2	7
1427	Vegetation change alters soil profile $\delta^{15}N$ values at the landscape scale. <i>Soil Biology and Biochemistry</i> , 2018, 119, 110-120.	4.2	15
1428	The Deep Root System of <i>Fagus sylvatica</i> on Sandy Soil: Structure and Variation Across a Precipitation Gradient. <i>Ecosystems</i> , 2018, 21, 280-296.	1.6	27
1429	Fine-root growth in a forested bog is seasonally dynamic, but shallowly distributed in nutrient-poor peat. <i>Plant and Soil</i> , 2018, 424, 123-143.	1.8	58
1430	Carbon input by roots into the soil: Quantification of rhizodeposition from root to ecosystem scale. <i>Global Change Biology</i> , 2018, 24, 1-12.	4.2	558
1431	Consequences of Surface and Subsurface Water Use on Wetland Graminoids of Different Geographic Origin. <i>Wetlands</i> , 2018, 38, 121-131.	0.7	5
1432	Impacts of the Soil Water Transfer Parameterization on the Simulation of Evapotranspiration over a 14-Year Mediterranean Crop Succession. <i>Journal of Hydrometeorology</i> , 2018, 19, 3-25.	0.7	14
1433	Belowground complementarity effects in a grassland biodiversity experiment are related to deep-rooting species. <i>Journal of Ecology</i> , 2018, 106, 265-277.	1.9	76
1434	Woody plant encroachment amplifies spatial heterogeneity of soil phosphorus to considerable depth. <i>Ecology</i> , 2018, 99, 136-147.	1.5	40
1435	Stream flow variability and drought severity in the Songhua River Basin, Northeast China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 1225-1242.	1.9	15
1436	Application of a simple headcut advance model for gullies. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 202-217.	1.2	29
1437	Tillage and haymaking practices speed up belowground net productivity restoration in the degraded Songnen grassland. <i>Soil and Tillage Research</i> , 2018, 175, 62-70.	2.6	13
1438	Forest biomass, productivity and carbon cycling along a rainfall gradient in West Africa. <i>Global Change Biology</i> , 2018, 24, e496-e510.	4.2	50

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1439	Overstoreyâ€“Understorey Interactions Intensify After Drought-Induced Forest Die-Off: Long-Term Effects for Forest Structure and Composition. <i>Ecosystems</i> , 2018, 21, 723-739.	1.6	27
1440	In situ root identification through blade penetrometer testing â€“ part 2: field testing. <i>Geotechnique</i> , 2018, 68, 320-331.	2.2	10
1441	Combining Eucalyptus wood production with the recovery of native tree diversity in mixed plantings: Implications for water use and availability. <i>Forest Ecology and Management</i> , 2018, 418, 34-40.	1.4	33
1442	Evaluation of microwave remote sensing for monitoring live fuel moisture content in the Mediterranean region. <i>Remote Sensing of Environment</i> , 2018, 205, 210-223.	4.6	75
1443	A historical perspective on soil organic carbon in Mediterranean cropland (Spain, 1900â€“2008). <i>Science of the Total Environment</i> , 2018, 621, 634-648.	3.9	53
1444	Integrating spatiotemporal dynamics of natural capital security and urban ecosystem carbon metabolism. <i>Environment, Development and Sustainability</i> , 2018, 20, 2043-2063.	2.7	1
1445	Seasonal and interannual variability of landâ€“atmosphere coupling across the Southern Great Plains of North America using the North American regional reanalysis. <i>International Journal of Climatology</i> , 2018, 38, 964-978.	1.5	18
1446	RUNOFF CHARACTERISTICS OF FOREST WATERSHEDS UNDER DIFFERENT FOREST MANagements. <i>Reviews in Agricultural Science</i> , 2018, 6, 119-133.	0.9	4
1447	Comparison of the Roles of Optimizing Root Distribution and the Water Uptake Function in Simulating Water and Heat Fluxes within a Maize Agroecosystem. <i>Water (Switzerland)</i> , 2018, 10, 1090.	1.2	4
1448	Implementing the nitrogen cycle into the dynamic global vegetation, hydrology, and crop growth model LPJmL (version 5.0). <i>Geoscientific Model Development</i> , 2018, 11, 2789-2812.	1.3	61
1449	Underplanted silver fir and common beech cause changes in root stratification and morphology in mature spruce stands. <i>Plant Root</i> , 2018, 12, 21-30.	0.3	2
1450	Differing Responses to Rainfall Suggest More Than One Functional Type of Grassland in South Africa. <i>Remote Sensing</i> , 2018, 10, 2055.	1.8	6
1451	Loss of deep roots limits biogenic agents of soil development that are only partially restored by decades of forest regeneration. <i>Elementa</i> , 2018, 6, .	1.1	34
1452	Roots of Perennial Grasses in the Recovery of Soils Degraded by Coal Mining in Southern Brazil. , 0, , .		2
1453	Quantifying Soil Water and Root Dynamics Using a Coupled Hydrogeophysical Inversion. <i>Vadose Zone Journal</i> , 2018, 17, 1-13.	1.3	13
1454	LPJmL4 â€“ a dynamic global vegetation model with managed land â€“ Part 1: Model description. <i>Geoscientific Model Development</i> , 2018, 11, 1343-1375.	1.3	140
1455	Concepts in empirical plant ecology. <i>Plant Ecology and Diversity</i> , 2018, 11, 405-428.	1.0	37
1456	Biomass carbon density in natural oak forests with different climate conditions and stand ages in northwest China. <i>Journal of Forest Research</i> , 2018, 23, 354-362.	0.7	5

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1457	A proxy-year analysis shows reduced soil temperatures with climate warming in boreal forest. <i>Scientific Reports</i> , 2018, 8, 16859.	1.6	11
1458	Moisture pulse-reserve in the soil-plant continuum observed across biomes. <i>Nature Plants</i> , 2018, 4, 1026-1033.	4.7	75
1459	Long-term impact of cement plant emissions on the elemental composition of both soils and pine stands and on the formation of Scots pine seeds. <i>Environmental Pollution</i> , 2018, 243, 1383-1393.	3.7	12
1460	Quantifying Drought Propagation from Soil Moisture to Vegetation Dynamics Using a Newly Developed Ecohydrological Land Reanalysis. <i>Remote Sensing</i> , 2018, 10, 1197.	1.8	20
1461	Modeling Production Processes in Forest Stands: An Adaptation of the Solow Growth Model. <i>Forests</i> , 2018, 9, 391.	0.9	7
1462	Carbon mineralization and microbial activity in agricultural topsoil and subsoil as regulated by root nitrogen and recalcitrant carbon concentrations. <i>Plant and Soil</i> , 2018, 433, 65-82.	1.8	23
1463	The mesic savannas of the Bateke Plateau: carbon stocks and floristic composition. <i>Biotropica</i> , 2018, 50, 868-880.	0.8	6
1464	Multiple Factors Drive Variation of Forest Root Biomass in Southwestern China. <i>Forests</i> , 2018, 9, 456.	0.9	2
1465	Dry matter partitioning and residue N content for 11 major field crops in Canada adjusted for rooting depth and yield. <i>Canadian Journal of Soil Science</i> , 2018, 98, 574-579.	0.5	20
1466	Deep Unsaturated Zone Contributions to Carbon Cycling in Semiarid Environments. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 3045-3054.	1.3	15
1467	Differential use of winter precipitation by upper and lower elevation Douglas fir in the Northern Rockies. <i>Global Change Biology</i> , 2018, 24, 5607-5621.	4.2	41
1468	Below-Ground Interspecific Competition of Apple (<i>Malus pumila</i> M.) and Soybean (<i>Glycine max</i> L. Merr.) Intercropping Systems Based on Niche Overlap on the Loess Plateau of China. <i>Sustainability</i> , 2018, 10, 3022.	1.6	11
1469	Spatial and temporal changes in ecosystem carbon pools following juniper encroachment and removal. <i>Biogeochemistry</i> , 2018, 140, 373-388.	1.7	13
1470	Organic layers favor phosphorus storage and uptake by young beech trees (<i>Fagus sylvatica</i> L.) at nutrient poor ecosystems. <i>Plant and Soil</i> , 2018, 432, 289-301.	1.8	24
1471	Soil C:N:P stoichiometry responds to vegetation change from grassland to woodland. <i>Biogeochemistry</i> , 2018, 140, 341-357.	1.7	49
1472	Hierarchical responses of soil organic and inorganic carbon dynamics to soil acidification in a dryland agroecosystem, China. <i>Journal of Arid Land</i> , 2018, 10, 726-736.	0.9	11
1473	The effects of abiotic factors in South African semi-arid grassland communities on <i>Seriphium plumosum</i> L density and canopy size. <i>PLoS ONE</i> , 2018, 13, e0202809.	1.1	8
1474	Vertical distribution of fine-root area in relation to stand age and environmental factors in black locust (<i>Robinia pseudoacacia</i>) forests of the Chinese Loess Plateau. <i>Canadian Journal of Forest Research</i> , 2018, 48, 1148-1158.	0.8	12

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1475	Sensitivity of stomatal conductance to soil moisture: implications for tropospheric ozone. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 5747-5763.	1.9	39
1476	Specific root length, soil water status, and grain yields of irrigated and rainfed winter barley in the raised bed and flat planting systems. <i>Agricultural Water Management</i> , 2018, 210, 304-315.	2.4	23
1477	Belowground plant functional ecology: Towards an integrated perspective. <i>Functional Ecology</i> , 2018, 32, 2115-2126.	1.7	109
1478	Small-scale spatial patterns of soil organic carbon and nitrogen stocks in permafrost-affected soils of northern Siberia. <i>Geoderma</i> , 2018, 329, 91-107.	2.3	17
1479	Combining satellite data and appropriate objective functions for improved spatial pattern performance of a distributed hydrologic model. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1299-1315.	1.9	119
1480	Modelling the diurnal and seasonal dynamics of soil CO ₂ exchange in a semiarid ecosystem with high plant interspace heterogeneity. <i>Biogeosciences</i> , 2018, 15, 115-136.	1.3	6
1481	A remote sensing-based two-leaf canopy conductance model: Global optimization and applications in modeling gross primary productivity and evapotranspiration of crops. <i>Remote Sensing of Environment</i> , 2018, 215, 411-437.	4.6	46
1482	Soil Moisture Stress as a Major Driver of Carbon Cycle Uncertainty. <i>Geophysical Research Letters</i> , 2018, 45, 6495-6503.	1.5	119
1483	Partitioning water source and sinking process of a groundwater-dependent desert plant community. <i>Plant and Soil</i> , 2018, 430, 73-85.	1.8	11
1484	Carbon storage dynamics of temperate freshwater wetlands in Pennsylvania. <i>Wetlands Ecology and Management</i> , 2018, 26, 893-914.	0.7	14
1485	Spatial and temporal variation of human appropriation of net primary production in the Rio de la Plata grasslands. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 145, 238-249.	4.9	32
1486	Applying the ecohydrological equilibrium hypothesis to model root distribution in water-limited forests. <i>Ecohydrology</i> , 2018, 11, e2015.	1.1	15
1487	Effects of Inundation, Nutrient Availability and Plant Species Diversity on Fine Root Mass and Morphology Across a Saltmarsh Flooding Gradient. <i>Frontiers in Plant Science</i> , 2018, 9, 98.	1.7	38
1488	Fine Root Biomass and Its Relationship with Aboveground Traits of <i>Larix gmelinii</i> Trees in Northeastern China. <i>Forests</i> , 2018, 9, 35.	0.9	31
1489	Thinning Treatments Reduce Deep Soil Carbon and Nitrogen Stocks in a Coastal Pacific Northwest Forest. <i>Forests</i> , 2018, 9, 238.	0.9	27
1490	Satellite-Based, Multi-Indices for Evaluation of Agricultural Droughts in a Highly Dynamic Tropical Catchment, Central Vietnam. <i>Water (Switzerland)</i> , 2018, 10, 659.	1.2	44
1491	ERA-5 and ERA-Interim driven ISBA land surface model simulations: which one performs better?. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 3515-3532.	1.9	243
1492	Storage, mixing, and fluxes of water in the critical zone across northern environments inferred by stable isotopes of soil water. <i>Hydrological Processes</i> , 2018, 32, 1720-1737.	1.1	52

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1493	Response of herbaceous wetland plant species to changing precipitation regimes. <i>Ecohydrology</i> , 2018, 11, e2030.	1.1	2
1494	Elaborate differences between trees and understory plants in the deployment of fine roots. <i>Plant and Soil</i> , 2018, 431, 433-447.	1.8	15
1495	Sorbents can tailor nitrogen release from organic wastes to match the uptake capacity of crops. <i>Science of the Total Environment</i> , 2018, 645, 1474-1483.	3.9	10
1496	Global patterns in above-ground net primary production and precipitation-use efficiency in grasslands. <i>Journal of Mountain Science</i> , 2018, 15, 1682-1692.	0.8	6
1497	Numerical Modeling of Plant Root Controls on Gravel Bed River Morphodynamics. <i>Geophysical Research Letters</i> , 2018, 45, 9013-9023.	1.5	24
1498	Connection Between Root Zone Soil Moisture and Surface Energy Flux Partitioning Using Modeling, Observations, and Data Assimilation for a Temperate Grassland Site in Germany. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2839-2862.	1.3	20
1499	Soil water and root distribution of apple tree (<i>Malus pumila</i> Mill) stands in relation to stand age and rainwater collection and infiltration system (RWCI) in a hilly region of the Loess Plateau, China. <i>Catena</i> , 2018, 170, 324-334.	2.2	57
1500	Greenhouse gas inventories: Deriving soil organic carbon change factors and assessing soil depth relevance in Argentinean Semiarid Chaco. <i>Catena</i> , 2018, 169, 164-174.	2.2	8
1501	Pedometrics. <i>Progress in Soil Science</i> , 2018, , .	0.4	13
1502	Influences of Root Hydraulic Redistribution on N ₂ O Emissions at AmeriFlux Sites. <i>Geophysical Research Letters</i> , 2018, 45, 5135-5143.	1.5	12
1503	Organic matter accumulation in reclaimed soils under spruce, poplar and grass in the Alberta Oil Sands. <i>New Forests</i> , 2019, 50, 307-322.	0.7	5
1504	Perennial C4 grasses increase root biomass and carbon in sown temperate pastures. <i>New Zealand Journal of Agricultural Research</i> , 2019, 62, 332-342.	0.9	3
1505	Comparing soil inventory with modelling: Carbon balance in central European forest soils varies among forest types. <i>Science of the Total Environment</i> , 2019, 647, 1573-1585.	3.9	11
1506	Seasonal dynamics of foliar $\delta^{13}C$ and nutrient concentration of Chinese chastetree and spine jujube in foothill rock outcrop habitat of the southern Taihang Mountains, Central China. <i>Journal of Forestry Research</i> , 2019, 30, 45-56.	1.7	5
1507	Vertical distribution and influencing factors of soil organic carbon in the Loess Plateau, China. <i>Science of the Total Environment</i> , 2019, 693, 133632.	3.9	58
1508	Root morphological traits of winter wheat under contrasting environments. <i>Journal of Agronomy and Crop Science</i> , 2019, 205, 571-585.	1.7	11
1509	Root production, mortality and turnover in soil profiles as affected by clipping in a temperate grassland on the Loess Plateau. <i>Journal of Plant Ecology</i> , 2019, 12, 1059-1072.	1.2	6
1510	The Origin of Soil Moisture Evaporation "Regimes". <i>Journal of Climate</i> , 2019, 32, 6939-6960.	1.2	23

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1511	Transformation from natural to wheat ecosystems enhances fine roots production and soil organic carbon input in an arid region. <i>Arid Land Research and Management</i> , 2019, 33, 449-467.	0.6	1
1512	Mathematical Description of Rooting Profiles of Agricultural Crops and its Effect on Transpiration Prediction by a Hydrological Model. <i>Soil Systems</i> , 2019, 3, 44.	1.0	11
1513	Plants alter their vertical root distribution rather than biomass allocation in response to changing precipitation. <i>Ecology</i> , 2019, 100, e02828.	1.5	86
1514	Differential metabolic responses of shrubs and grasses to water additions in arid karst region, southwestern China. <i>Scientific Reports</i> , 2019, 9, 9613.	1.6	11
1515	Stand carbon density drivers and changes under future climate scenarios across global forests. <i>Forest Ecology and Management</i> , 2019, 449, 117463.	1.4	11
1516	Recent Changes in the ISBA-CTRIP Land Surface System for Use in the CNRM-CM6 Climate Model and in Global Offline Hydrological Applications. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 1207-1252.	1.3	120
1517	Advanced Aboveground Spatial Analysis as Proxy for the Competitive Environment Affecting Sapling Development. <i>Frontiers in Plant Science</i> , 2019, 10, 690.	1.7	6
1518	Toward stomatal flux based forest protection against ozone: The MOTTLES approach. <i>Science of the Total Environment</i> , 2019, 691, 516-527.	3.9	38
1519	The response of root traits to precipitation change of herbaceous species in temperate steppes. <i>Functional Ecology</i> , 2019, 33, 2030-2041.	1.7	35
1520	Carbon-water flux coupling under progressive drought. <i>Biogeosciences</i> , 2019, 16, 2557-2572.	1.3	24
1521	Decadal Change in Soil Moisture Over East Asia in Response to a Decade-Long Warming Hiatus. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 8619-8630.	1.2	8
1522	Solute Fluxes Through Restored Prairie and Intensively Managed Critical Zones in Nebraska and Iowa. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	3
1523	Interplays between State and Flux Hydrological Variables across Vadose Zones: A Numerical Investigation. <i>Water (Switzerland)</i> , 2019, 11, 1295.	1.2	4
1524	Including soil water stress in process-based ecosystem models by scaling down maximum carboxylation rate using accumulated soil water deficit. <i>Agricultural and Forest Meteorology</i> , 2019, 276-277, 107649.	1.9	9
1525	Development and evaluation of a simple hydrologically based model for terrestrial evapotranspiration simulations. <i>Journal of Hydrology</i> , 2019, 577, 123928.	2.3	10
1526	The Community Land Model Version 5: Description of New Features, Benchmarking, and Impact of Forcing Uncertainty. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4245-4287.	1.3	692
1527	Porosity production in weathered rock: Where volumetric strain dominates over chemical mass loss. <i>Science Advances</i> , 2019, 5, eaao0834.	4.7	52
1528	Environmental constraints sensitivity of soil organic carbon decomposition to temperature, management practices and climate change. <i>Ecological Indicators</i> , 2019, 107, 105644.	2.6	21

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1529	Ecologically distinct pine species show differential root development after outplanting in response to nursery nutrient cultivation. <i>Forest Ecology and Management</i> , 2019, 451, 117562.	1.4	10
1530	Complex response of vegetation to grazing suggests need for coordinated, landscape-level approaches to grazing management. <i>Global Ecology and Conservation</i> , 2019, 20, e00770.	1.0	31
1531	Root growth dynamics during recovery of tropical mountain forest in North-east India. <i>Journal of Mountain Science</i> , 2019, 16, 2335-2347.	0.8	7
1533	Changes in the relationship between species richness and belowground biomass among grassland types and along environmental gradients in Xinjiang, Northwest China. <i>Journal of Arid Land</i> , 2019, 11, 855-865.	0.9	2
1535	Environmental and Vegetative Controls on Soil CO ₂ Efflux in Three Semiarid Ecosystems. <i>Soil Systems</i> , 2019, 3, 6.	1.0	21
1536	Changes in structure of overâ€•and midstory tree species in a Mediterraneanâ€•type forest after an extreme droughtâ€•associated heatwave. <i>Austral Ecology</i> , 2019, 44, 1438-1450.	0.7	16
1537	Effects of extreme drought on primary production, species composition and species diversity of a Mediterranean annual plant community. <i>Journal of Vegetation Science</i> , 2019, 30, 1045-1061.	1.1	17
1538	Farming the Black Earth. , 2019, , .		27
1539	Carbon Sequestration and Climate Change. , 2019, , 53-87.		0
1540	Dominant role of climate in determining spatio-temporal distribution of potential groundwater recharge at a regional scale. <i>Journal of Hydrology</i> , 2019, 578, 124042.	2.3	52
1541	Root biomass allocation in southern temperate forests. <i>Forest Ecology and Management</i> , 2019, 453, 117542.	1.4	9
1542	Conservation Systems for Positive Net Ecosystem Carbon Balance in Semiarid Drylands. , 2019, 2, 1-8.		18
1543	Denitrification potential in three saturated riparian buffers. <i>Agriculture, Ecosystems and Environment</i> , 2019, 286, 106656.	2.5	3
1544	Fine root biomass, production and turnover rates in plantations versus natural forests: effects of stand characteristics and soil properties. <i>Plant and Soil</i> , 2019, 436, 463-474.	1.8	34
1545	Reassessing the role of grazing lands in carbon-balance estimations: Meta-analysis and review. <i>Science of the Total Environment</i> , 2019, 661, 531-542.	3.9	50
1546	Forecasting dryland vegetation condition months in advance through satellite data assimilation. <i>Nature Communications</i> , 2019, 10, 469.	5.8	42
1547	Ecohydrological consequences of tree removal in an urban park evaluated using open data, free software and a minimalist measuring campaign. <i>Science of the Total Environment</i> , 2019, 655, 1495-1504.	3.9	18
1548	Simulating Dynamic Roots in the Energy Exascale Earth System Land Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 338-359.	1.3	35

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1549	Importance of root uptake of $^{14}\text{CO}_2$ on ^{14}C transfer to plants impacted by below-ground $^{14}\text{CH}_4$ release. <i>Journal of Environmental Radioactivity</i> , 2019, 201, 5-18.	0.9	3
1550	Alternative tree recovery states of the boreal ecosystem: A conceptual model. <i>Global Ecology and Biogeography</i> , 2019, 28, 612-627.	2.7	9
1551	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
1552	Evaluating the E3SM land model version 0 (ELMv0) at a temperate forest site using flux and soil water measurements. <i>Geoscientific Model Development</i> , 2019, 12, 1601-1612.	1.3	7
1553	Prediction of nitrate accumulation and leaching beneath groundwater irrigated corn fields in the Upper Platte basin under a future climate scenario. <i>Science of the Total Environment</i> , 2019, 685, 514-526.	3.9	20
1554	The weathering stage of tropical soils affects the soil-plant cycle of silicon, but depending on land use. <i>Geoderma</i> , 2019, 351, 209-220.	2.3	44
1555	Soil enzyme activity and stoichiometry along a gradient of vegetation restoration at the Karst Critical Zone Observatory in Southwest China. <i>Land Degradation and Development</i> , 2019, 30, 1916-1927.	1.8	30
1556	The Effect of Roots on the Shear Strength of Texturally Distinct Soils. <i>Floresta E Ambiente</i> , 2019, 26, .	0.1	15
1557	Hydrological impacts of afforestation in the semiarid Patagonia: A modelling approach. <i>Ecohydrology</i> , 2019, 12, e2113.	1.1	14
1558	Carbon control on terrestrial ecosystem function across contrasting site productivities: the carbon connection revisited. <i>Ecology</i> , 2019, 100, e02695.	1.5	22
1559	A synthesis of ecosystem aboveground productivity and its process variables under simulated drought stress. <i>Journal of Ecology</i> , 2019, 107, 2519-2531.	1.9	40
1560	Effects of bedrock type and soil chemistry on the fine roots of European beech – A study on the belowground plasticity of trees. <i>Forest Ecology and Management</i> , 2019, 444, 256-268.	1.4	27
1561	Fine root lignin content is well predictable with near-infrared spectroscopy. <i>Scientific Reports</i> , 2019, 9, 6396.	1.6	27
1562	The Demographics of Water: A Review of Water Ages in the Critical Zone. <i>Reviews of Geophysics</i> , 2019, 57, 800-834.	9.0	197
1563	Responses of biomass allocation across two vegetation types to climate fluctuations in the northern Qinghai-Tibet Plateau. <i>Ecology and Evolution</i> , 2019, 9, 6105-6115.	0.8	32
1564	Dwelling in the deep – strongly increased root growth and rooting depth enhance plant interactions with thawing permafrost soil. <i>New Phytologist</i> , 2019, 223, 1328-1339.	3.5	68
1565	Foliar water uptake in Amazonian trees: Evidence and consequences. <i>Global Change Biology</i> , 2019, 25, 2678-2690.	4.2	45
1566	Variations and Indications of $\delta^{13}\text{CSOC}$ and $\delta^{15}\text{NSON}$ in Soil Profiles in Karst Critical Zone Observatory (CZO), Southwest China. <i>Sustainability</i> , 2019, 11, 2144.	1.6	28

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1567	Plant root-shoot biomass allocation over diverse biomes: A global synthesis. <i>Global Ecology and Conservation</i> , 2019, 18, e00606.	1.0	107
1568	The Case for Digging Deeper: Soil Organic Carbon Storage, Dynamics, and Controls in Our Changing World. <i>Soil Systems</i> , 2019, 3, 28.	1.0	86
1569	Multi-model ensemble improved the prediction of trends in soil organic carbon stocks in German croplands. <i>Geoderma</i> , 2019, 345, 17-30.	2.3	40
1570	Seasonal dynamics and depth distribution of belowground biomass carbon and nitrogen of extensive grassland and a <i>Miscanthus</i> plantation. <i>Plant and Soil</i> , 2019, 440, 119-133.	1.8	12
1571	Impacts of mixed-grazing on root biomass and belowground net primary production in a temperate desert steppe. <i>Royal Society Open Science</i> , 2019, 6, 180890.	1.1	7
1572	A space-time observation system for soil moisture in agricultural landscapes. <i>Geoderma</i> , 2019, 344, 1-13.	2.3	14
1573	Evergreenness influences fine root growth more than tree diversity in a common garden experiment. <i>Oecologia</i> , 2019, 189, 1027-1039.	0.9	15
1574	Reconciling Canopy Interception Parameterization and Rainfall Forcing Frequency in the Community Land Model for Simulating Evapotranspiration of Rainforests and Oil Palm Plantations in Indonesia. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 732-751.	1.3	21
1575	Root density distribution and biomass allocation of co-occurring woody plants on contrasting soils in a subtropical savanna parkland. <i>Plant and Soil</i> , 2019, 438, 263-279.	1.8	21
1576	Belowground Biomass Response to Nutrient Enrichment Depends on Light Limitation Across Globally Distributed Grasslands. <i>Ecosystems</i> , 2019, 22, 1466-1477.	1.6	34
1577	Soil nutrient levels define herbage yield but not root biomass in a multispecies grass-legume ley. <i>Agriculture, Ecosystems and Environment</i> , 2019, 276, 47-54.	2.5	14
1578	Differences in soil moisture in two Middle Eastern oak forests: Comparing the effects of trees and soil composition. <i>Hydrological Processes</i> , 2019, 33, 86-100.	1.1	2
1579	How landscape heterogeneity governs stream water concentration-discharge behavior in carbonate terrains (Konza Prairie, USA). <i>Chemical Geology</i> , 2019, 527, 118989.	1.4	34
1580	Seasonal patterns of water uptake in <i>Populus tremuloides</i> and <i>Picea glauca</i> on a boreal reclamation site is species specific and modulated by capping soil depth and slope position. <i>Plant and Soil</i> , 2019, 439, 487-504.	1.8	4
1581	A New Process-Based Soil Methane Scheme: Evaluation Over Arctic Field Sites With the ISBA Land Surface Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 293-326.	1.3	16
1582	Unifying soil organic matter formation and persistence frameworks: the MEMS model. <i>Biogeosciences</i> , 2019, 16, 1225-1248.	1.3	81
1583	The ecosystem carbon sink implications of mountain forest expansion into abandoned grazing land: The role of subsoil and climatic factors. <i>Science of the Total Environment</i> , 2019, 672, 106-120.	3.9	18
1584	Intercropping effects on root distribution of eight novel winter faba bean genotypes mixed with winter wheat. <i>Field Crops Research</i> , 2019, 235, 1-10.	2.3	26

#	ARTICLE	IF	CITATIONS
1585	Soil organic carbon and soil erosion – Understanding change at the large catchment scale. <i>Geoderma</i> , 2019, 343, 60-71.	2.3	39
1586	Implementing Plant Hydraulics in the Community Land Model, Version 5. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 485-513.	1.3	213
1587	Multi-objective calibration of RothC using measured carbon stocks and auxiliary data of a long-term experiment in Switzerland. <i>European Journal of Soil Science</i> , 2019, 70, 819-832.	1.8	14
1589	<i>Terrestrial Biosphere Models.</i> , 2019, , 1-24.		4
1590	<i>Quantitative Description of Ecosystems.</i> , 2019, , 25-39.		0
1591	<i>Fundamentals of Energy and Mass Transfer.</i> , 2019, , 40-52.		0
1592	<i>Mathematical Formulation of Biological Flux Rates.</i> , 2019, , 53-63.		0
1593	<i>Soil Temperature.</i> , 2019, , 64-79.		1
1594	<i>Turbulent Fluxes and Scalar Profiles in the Surface Layer.</i> , 2019, , 80-100.		2
1595	<i>Surface Energy Fluxes.</i> , 2019, , 101-114.		1
1596	<i>Soil Moisture.</i> , 2019, , 115-133.		0
1597	<i>Hydrologic Scaling and Spatial Heterogeneity.</i> , 2019, , 134-151.		0
1598	<i>Leaf Temperature and Energy Fluxes.</i> , 2019, , 152-166.		0
1599	<i>Leaf Photosynthesis.</i> , 2019, , 167-188.		2
1600	<i>Stomatal Conductance.</i> , 2019, , 189-212.		1
1601	<i>Plant Hydraulics.</i> , 2019, , 213-227.		2
1602	<i>Radiative Transfer.</i> , 2019, , 228-259.		1
1603	<i>Plant Canopies.</i> , 2019, , 260-279.		0

#	ARTICLE	IF	CITATIONS
1604	Scalar Canopy Profiles. , 2019, , 280-300.		0
1605	Biogeochemical Models. , 2019, , 301-321.		0
1606	Soil Biogeochemistry. , 2019, , 322-343.		0
1607	Vegetation Demography. , 2019, , 344-364.		1
1608	Canopy Chemistry. , 2019, , 365-380.		0
1612	A Three-Dimensional Assessment of Soil $\delta^{13}C$ in a Subtropical Savanna: Implications for Vegetation Change and Soil Carbon Dynamics. <i>Soil Systems</i> , 2019, 3, 73.	1.0	2
1613	Combined effects of grazing and climate warming drive shrub dominance on the Tibetan Plateau. <i>Rangeland Journal</i> , 2019, 41, 425.	0.4	5
1615	The Dynamics of Living and Dead Fine Roots of Forest Biomes Across the Northern Hemisphere. <i>Forests</i> , 2019, 10, 953.	0.9	13
1616	A GIS-Based Water Balance Approach Using a LiDAR-Derived DEM Captures Fine-Scale Vegetation Patterns. <i>Remote Sensing</i> , 2019, 11, 2385.	1.8	6
1617	Wet tropical soils and global change. <i>Developments in Soil Science</i> , 2019, 36, 131-169.	0.5	6
1618	High Below-Ground Productivity Allocation of Alpine Grasslands on the Northern Tibet. <i>Plants</i> , 2019, 8, 535.	1.6	15
1619	Watershed Reactive Transport. <i>Reviews in Mineralogy and Geochemistry</i> , 2019, 85, 381-418.	2.2	31
1621	A design principle of root length distribution of plants. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190556.	1.5	4
1622	Root-Soil Inter Actions & Adaptation Strategies of Plants in Response to Soil Water Availability. , 2019, , ,		0
1623	A new model of the coupled carbon, nitrogen, and phosphorus cycles in the terrestrial biosphere (QUINCY v1.0; revision 1996). <i>Geoscientific Model Development</i> , 2019, 12, 4781-4802.	1.3	39
1624	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
1625	13. Watershed Reactive Transport. , 2019, , 381-418.		6
1626	A Multi-Temporal Object-Based Image Analysis to Detect Long-Lived Shrub Cover Changes in Drylands. <i>Remote Sensing</i> , 2019, 11, 2649.	1.8	13

#	ARTICLE	IF	CITATIONS
1627	Carbon Sequestration in Sediment as an Ecosystem Function of Seagrass Meadows. , 2019, , 33-71.		12
1628	Cultivation affected the level of inorganic phosphorus more than the organic pool of the Pampas soils in Argentina. Archives of Agronomy and Soil Science, 2019, 65, 1022-1033.	1.3	3
1629	Methane emissions from tree stems: a new frontier in the global carbon cycle. New Phytologist, 2019, 222, 18-28.	3.5	104
1630	Biome: evolution of a crucial ecological and biogeographical concept. New Phytologist, 2019, 222, 97-114.	3.5	115
1631	Variations in soil nutrient availability across Tibetan grassland from the 1980s to 2010s. Geoderma, 2019, 338, 197-205.	2.3	31
1632	Coping with drought: root trait variability within the perennial grass <i>Dactylis glomerata</i> captures a trade-off between dehydration avoidance and dehydration tolerance. Plant and Soil, 2019, 434, 327-342.	1.8	37
1634	Below-ground carbon inputs contribute more than above-ground inputs to soil carbon accrual in a bioenergy poplar plantation. Plant and Soil, 2019, 434, 363-378.	1.8	40
1635	Effects of soil process formalisms and forcing factors on simulated organic carbon depth-distributions in soils. Science of the Total Environment, 2019, 652, 523-537.	3.9	16
1636	Land Surface Processes Relevant to Sub-seasonal to Seasonal (S2S) Prediction. , 2019, , 165-181.		12
1637	Topography and soils-based mapping reveals fine-scale compositional shifts over two centuries within a central Appalachian landscape. Forest Ecology and Management, 2019, 433, 33-42.	1.4	26
1638	Cover Crop Effects on Net Ecosystem Carbon Balance in Grain and Silage Maize. Agronomy Journal, 2019, 111, 30-38.	0.9	15
1639	Introduction to Physical Scaling. , 2019, , 199-273.		5
1640	Evaluation of the RothC model as a prognostic tool for the prediction of SOC trends in response to management practices on arable land. Geoderma, 2019, 337, 463-478.	2.3	30
1641	Rooting big and deep rapidly: the ecological roots of pine species distribution in southern Europe. Trees - Structure and Function, 2019, 33, 293-303.	0.9	24
1642	Depth Distributions of Belowground Production, Biomass and Decomposition in Restored Tallgrass Prairie. Pedosphere, 2019, 29, 457-467.	2.1	4
1643	Fine root longevity and below- and aboveground litter production in a boreal <i>Betula pendula</i> forest. Forest Ecology and Management, 2019, 431, 17-25.	1.4	34
1644	Using a nitrogen mineralization index will improve soil productivity rating by artificial neural networks. Archives of Agronomy and Soil Science, 2020, 66, 517-531.	1.3	2
1645	Assessment of the coupled effects of vegetation leaf and root characteristics on soil suction: an integrated numerical modeling and probabilistic approach. Acta Geotechnica, 2020, 15, 1331-1339.	2.9	8

#	ARTICLE	IF	CITATIONS
1646	Modelling the seismic performance of root-reinforced slopes using the finite-element method. <i>Geotechnique</i> , 2020, 70, 375-391.	2.2	15
1647	Variation in fine root traits reveals nutrient-specific acquisition strategies in agroforestry systems. <i>Plant and Soil</i> , 2020, 453, 139-151.	1.8	29
1648	Comparison of sampling with a spade and gouge auger for topsoil monitoring at the continental scale. <i>European Journal of Soil Science</i> , 2020, 71, 137-150.	1.8	15
1649	Linking reliance on deep soil water to resource economy strategies and abundance among coexisting understorey shrub species in subtropical pine plantations. <i>New Phytologist</i> , 2020, 225, 222-233.	3.5	31
1650	Pairing dual-frequency GPR in summer and winter enhances the detection and mapping of coarse roots in the semi-arid shrubland in China. <i>European Journal of Soil Science</i> , 2020, 71, 236-251.	1.8	14
1651	Recent Advances in Tree Root Mapping and Assessment Using Non-destructive Testing Methods: A Focus on Ground Penetrating Radar. <i>Surveys in Geophysics</i> , 2020, 41, 605-646.	2.1	45
1652	Changes in deep soil organic carbon and soil properties beneath tree windbreak plantings in the U.S. Great Plains. <i>Agroforestry Systems</i> , 2020, 94, 565-581.	0.9	6
1653	Effects of riparian plant roots on the unconsolidated bank stability of meandering channels in the Tarim River, China. <i>Geomorphology</i> , 2020, 351, 106958.	1.1	27
1654	Influence of grass roots on shear strength of pyroclastic soils. <i>Canadian Geotechnical Journal</i> , 2020, 57, 1320-1334.	1.4	25
1655	Differential stoichiometric responses of shrubs and grasses to increased precipitation in a degraded karst ecosystem in Southwestern China. <i>Science of the Total Environment</i> , 2020, 700, 134421.	3.9	12
1656	Hydrologic niches explain species coexistence and abundance in a shrub-steppe system. <i>Journal of Ecology</i> , 2020, 108, 998-1008.	1.9	30
1657	Monitoring and Predicting Agricultural Droughts for a Water-Limited Subcontinental Region by Integrating a Land Surface Model and Microwave Remote Sensing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 14-33.	2.7	12
1658	Soil depth and grassland origin cooperatively shape microbial community co-occurrence and function. <i>Ecosphere</i> , 2020, 11, e02973.	1.0	41
1659	Effects of soil compaction by a forestry machine and slash dispersal on soil N mineralization in <i>Cryptomeria japonica</i> plantations under high precipitation. <i>New Forests</i> , 2020, 51, 887-907.	0.7	7
1660	Signaling from below: rodents select for deeper fruiting truffles with stronger volatile emissions. <i>Ecology</i> , 2020, 101, e02964.	1.5	12
1661	Hydraulic redistribution driven by roots: Modeling and simulation case for the Pantanal. <i>Ecohydrology and Hydrobiology</i> , 2020, 20, 243-255.	1.0	1
1662	Variations in fine root dynamics and turnover rates in five forest types in northeastern China. <i>Journal of Forestry Research</i> , 2020, 31, 871-884.	1.7	14
1663	Modelling plant water relations and net primary productivity as affected by reclamation cover depth in reclaimed forestlands of northern Alberta. <i>Plant and Soil</i> , 2020, 446, 627-654.	1.8	7

#	ARTICLE	IF	CITATIONS
1664	Improving carbon sequestration estimation through accounting carbon stored in grassland soil. <i>MethodsX</i> , 2020, 7, 100761.	0.7	6
1665	Biomass allocation and productivityâ€“richness relationship across four grassland types at the Qinghai Plateau. <i>Ecology and Evolution</i> , 2020, 10, 506-516.	0.8	14
1666	Stoichiometry of leaf carbon, nitrogen, and phosphorus along a geographic, climatic, and soil gradients in temperate desert of Hexi Corridor, northwest China. <i>Journal of Plant Ecology</i> , 2020, 13, 114-121.	1.2	13
1667	Improving models of fine root carbon stocks and fluxes in European forests. <i>Journal of Ecology</i> , 2020, 108, 496-514.	1.9	23
1668	Root litter diversity and functional identity regulate soil carbon and nitrogen cycling in a typical steppe. <i>Soil Biology and Biochemistry</i> , 2020, 141, 107688.	4.2	12
1669	The intensity of water stress dictates whether the N status of temperate-type perennial grass swards is affected by drought. <i>Field Crops Research</i> , 2020, 257, 107928.	2.3	1
1670	Soil dissolved organic carbon in terrestrial ecosystems: Global budget, spatial distribution and controls. <i>Global Ecology and Biogeography</i> , 2020, 29, 2159-2175.	2.7	47
1671	Short-term soil physical quality improvements promoted by an agroforestry system. <i>Agroforestry Systems</i> , 2020, 94, 2053-2064.	0.9	19
1672	The effects of desiccation on broadâ€“leaved dock (<i>Rumex obtusifolius</i>) and curled dock (<i>Rumex crispus</i>) root fragment regeneration. <i>Weed Biology and Management</i> , 2020, 20, 47-60.	0.6	1
1673	GPR based RTM imaging technology for estimating rhizome diameters and application in the western China mining area. <i>Applied Geophysics</i> , 2020, 17, 154-166.	0.1	2
1674	Response of soil labile organic carbon fractions and carbon-cycle enzyme activities to vegetation degradation in a wet meadow on the Qinghaiâ€“Tibet Plateau. <i>Geoderma</i> , 2020, 377, 114565.	2.3	51
1675	Barley shoot biomass responds strongly to N:P stoichiometry and intraspecific competition, whereas roots only alter their foraging. <i>Plant and Soil</i> , 2020, 453, 515-528.	1.8	14
1676	Belowground functioning of agroforestry systems: recent advances and perspectives. <i>Plant and Soil</i> , 2020, 453, 1-13.	1.8	44
1677	Variation in Fine Root Characteristics and Nutrient Dynamics Across Alaskan Ecosystems. <i>Ecosystems</i> , 2020, 24, 1332.	1.6	0
1678	Biogeochemical transformation of greenhouse gas emissions from terrestrial to atmospheric environment and potential feedback to climate forcing. <i>Environmental Science and Pollution Research</i> , 2020, 27, 38513-38536.	2.7	63
1679	Shifts in ectomycorrhizal exploration types parallel leaf and fine root area with forest age. <i>Journal of Ecology</i> , 2020, 108, 2270-2282.	1.9	17
1680	The Vertical Differences in the Change Rates and Controlling Factors of Soil Organic Carbon and Total Nitrogen along Vegetation Restoration in a Subtropical Area of China. <i>Sustainability</i> , 2020, 12, 6443.	1.6	9
1681	Global BROOK90 R Package: An Automatic Framework to Simulate the Water Balance at Any Location. <i>Water (Switzerland)</i> , 2020, 12, 2037.	1.2	11

#	ARTICLE	IF	CITATIONS
1682	Snowmelt causes different limitations on transpiration in a Sierra Nevada conifer forest. <i>Agricultural and Forest Meteorology</i> , 2020, 291, 108089.	1.9	21
1683	Global patterns and climatic controls of belowground net carbon fixation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20038-20043.	3.3	61
1684	Vegetation greening intensified soil drying in some semi-arid and arid areas of the world. <i>Agricultural and Forest Meteorology</i> , 2020, 292-293, 108103.	1.9	38
1685	Morphological variation of fine root systems and leaves in primary and secondary tropical forests of Hainan Island, China. <i>Annals of Forest Science</i> , 2020, 77, 1.	0.8	9
1686	Water availability drives fine root dynamics in a <i>Eucalyptus</i> woodland under elevated atmospheric CO ₂ concentration. <i>Functional Ecology</i> , 2020, 34, 2389-2402.	1.7	7
1687	Effect of Nitrogen Fertilisation on Sugarcane Root Development and Nitrogen Accumulation in Ratoon Crops of Reunion Island. <i>Sugar Tech</i> , 2020, 22, 1110-1121.	0.9	5
1688	The communities of ectomycorrhizal fungal species associated with <i>Betula pendula</i> Roth and <i>Pinus sylvestris</i> L. growing in heavy-metal contaminated soils. <i>Plant and Soil</i> , 2020, 457, 321-338.	1.8	6
1689	Hydrogen isotope fractionation in modern plants along a boreal-tundra transect in Alaska. <i>Organic Geochemistry</i> , 2020, 147, 104064.	0.9	13
1690	Slope position and water use by trees in a headwater catchment dominated by Japanese cypress: Implications for catchment-scale transpiration estimates. <i>Ecohydrology</i> , 2020, 13, e2245.	1.1	9
1691	Fine Root Size and Morphology of Associated Hyphae Reflect the Phosphorus Nutrition Strategies of European Beech Forests. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	1.0	2
1692	Aboveground and Belowground Colonization of Vegetation on a 17-Year-Old Cover with Capillary Barrier Effect Built on a Boreal Mine Tailings Storage Facility. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 704.	0.8	7
1693	Allometric equations to estimate aboveground and belowground biomass of <i>Pinus patula</i> Schiede ex Schlttdl. & Cham. <i>Forest Science and Technology</i> , 2020, 16, 161-170.	0.3	3
1694	Contrasting CO ₂ and water vapour fluxes in dry forest and pasture sites of central Argentina. <i>Ecohydrology</i> , 2020, 13, e2244.	1.1	7
1695	High Vapor Pressure Deficit Decreases the Productivity and Water Use Efficiency of Rain-Induced Pulses in Semiarid Ecosystems. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2020JG005665.	1.3	28
1696	Vertical fine-root distributions in five subalpine forest types shifts with soil properties across environmental gradients. <i>Plant and Soil</i> , 2020, 456, 129-143.	1.8	23
1697	Drought Propagation in Contiguous U.S. Watersheds: A Process-Based Understanding of the Role of Climate and Watershed Properties. <i>Water Resources Research</i> , 2020, 56, e2020WR027755.	1.7	52
1698	Hydrological Response to Agricultural Land Use Heterogeneity Using Variable Infiltration Capacity Model. <i>Water Resources Management</i> , 2020, 34, 3779-3794.	1.9	72
1699	Degradation leads to dramatic decrease in topsoil but not subsoil root biomass in an alpine meadow on the Tibetan Plateau, China. <i>Journal of Arid Land</i> , 2020, 12, 806-818.	0.9	11

#	ARTICLE	IF	CITATIONS
1700	Multi-scale evolution of ecosystem services TM supply in Sierra Nevada (Spain): An assessment over the last half-century. <i>Ecosystem Services</i> , 2020, 46, 101204.	2.3	17
1701	Variations of the biodiversity and carbon functions of karst forests in two morphologically different sites in southwestern China. <i>Israel Journal of Ecology and Evolution</i> , 2020, 67, 9-16.	0.2	1
1702	Potential natural vegetation and NPP responses to future climates in the U.S. Great Plains. <i>Ecosphere</i> , 2020, 11, e03264.	1.0	21
1703	Multi-isotope approach (⁴⁴ Ca/ ⁴⁰ Ca, ⁸⁸ Sr/ ⁸⁶ Sr and ⁸⁷ Sr/ ⁸⁶ Sr) provides insights into rhizolith formation mechanisms in terrestrial sediments of Nussloch (Germany). <i>Chemical Geology</i> , 2020, 545, 119641.	1.4	6
1704	Fine [€] root dynamics vary with soil depth and precipitation in a low [€] nutrient tropical forest in the Central Amazonia. <i>Plant-Environment Interactions</i> , 2020, 1, 3-16.	0.7	34
1705	Soil organic carbon in drylands: shrub encroachment and vegetation management effects dwarf those of livestock grazing. <i>Ecological Applications</i> , 2020, 30, e02150.	1.8	11
1706	Root [€] zone soil moisture variability across African savannas: From pulsed rainfall to land [€] cover switches. <i>Ecohydrology</i> , 2020, 13, e2213.	1.1	10
1707	Plant hydraulics accentuates the effect of atmospheric moisture stress on transpiration. <i>Nature Climate Change</i> , 2020, 10, 691-695.	8.1	108
1708	Advancing simulations of water fluxes, soil moisture and drought stress by using the LWF-Brook90 hydrological model in R. <i>Agricultural and Forest Meteorology</i> , 2020, 291, 108023.	1.9	16
1709	Assessing Temperate Forest Growth and Climate Sensitivity in Response to a Long [€] Term Whole [€] Watershed Acidification Experiment. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005560.	1.3	5
1710	Vulnerability of vegetation activities to drought in Central Asia. <i>Environmental Research Letters</i> , 2020, 15, 084005.	2.2	43
1711	Long-term thermal sensitivity of Earth [€] s tropical forests. <i>Science</i> , 2020, 368, 869-874.	6.0	198
1712	Winter rye does not increase microbial necromass contributions to soil organic carbon in continuous corn silage in North Central US. <i>Soil Biology and Biochemistry</i> , 2020, 148, 107899.	4.2	9
1713	Terrestrial carbon stocks following 15 [^] years of integrated watershed management intervention in semi-arid Ethiopia. <i>Catena</i> , 2020, 190, 104543.	2.2	12
1714	Response of soil fertility to 25 years of experimental acidification in a temperate hardwood forest. <i>Journal of Environmental Quality</i> , 2020, 49, 961-972.	1.0	16
1715	Evaluation of grassland carbon pool based on TECO-R model and climate-driving function: A case study in the Xilingol typical steppe region of Inner Mongolia, China. <i>Ecological Indicators</i> , 2020, 117, 106508.	2.6	7
1716	Soil salinity and moisture content under non-native Tamarix species. <i>International Journal of Phytoremediation</i> , 2020, 22, 931-938.	1.7	3
1717	Quantification of Plant Root Species Composition in Peatlands Using FTIR Spectroscopy. <i>Frontiers in Plant Science</i> , 2020, 11, 597.	1.7	13

#	ARTICLE	IF	CITATIONS
1718	Identifying areas at risk of drought-induced tree mortality across South-Eastern Australia. <i>Global Change Biology</i> , 2020, 26, 5716-5733.	4.2	79
1719	Inter-annual variability of the global terrestrial water cycle. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 381-396.	1.9	17
1720	Jena Soil Model (JSM v1.0; revision 1934): a microbial soil organic carbon model integrated with nitrogen and phosphorus processes. <i>Geoscientific Model Development</i> , 2020, 13, 783-803.	1.3	29
1721	Estimation of Groundwater Evapotranspiration Using Diurnal Groundwater Level Fluctuations under Three Vegetation Covers at the Hinterland of the Badain Jaran Desert. <i>Advances in Meteorology</i> , 2020, 2020, 1-14.	0.6	5
1722	How urban densification influences ecosystem services—a comparison between a temperate and a tropical city. <i>Environmental Research Letters</i> , 2020, 15, 075001.	2.2	27
1723	Physiological Mechanisms of Foliage Recovery after Spring or Fall Crown Scorch in Young Longleaf Pine (<i>Pinus palustris</i> Mill.). <i>Forests</i> , 2020, 11, 208.	0.9	10
1724	Bridging the Flux Gap: Sap Flow Measurements Reveal Species-Specific Patterns of Water Use in a Tallgrass Prairie. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005446.	1.3	11
1725	A historical and comparative review of 50 years of root data collection in Puerto Rico. <i>Biotropica</i> , 2020, 52, 563-576.	0.8	12
1726	Impacts of coppicing on <i>Tamarix chinensis</i> growth and carbon stocks in coastal wetlands in northern China. <i>Ecological Engineering</i> , 2020, 147, 105760.	1.6	6
1727	Soil water availability shapes species richness in mid-latitude shrub steppe plant communities. <i>Journal of Vegetation Science</i> , 2020, 31, 646-657.	1.1	16
1728	Oxygen migration through a cover with capillary barrier effects colonized by roots. <i>Canadian Geotechnical Journal</i> , 2020, 57, 1903-1914.	1.4	13
1729	Lower soil carbon stocks in exotic vs. native grasslands are driven by carbonate losses. <i>Ecology</i> , 2020, 101, e03039.	1.5	9
1730	Soil properties rather than climate and ecosystem type control the vertical variations of soil organic carbon, microbial carbon, and microbial quotient. <i>Soil Biology and Biochemistry</i> , 2020, 148, 107905.	4.2	71
1731	The Study of Gaining More Detailed Variability Information of Soil Organic Carbon in Surface Soils and Its Significance to Enriching the Existing Soil Database. <i>Sustainability</i> , 2020, 12, 4866.	1.6	1
1732	Fine root C:N:P stoichiometry and its driving factors across forest ecosystems in northwestern China. <i>Science of the Total Environment</i> , 2020, 737, 140299.	3.9	30
1733	Evaluation of the Hyper-Resolution Model-Derived Water Cycle Components Over the Upper Blue Nile Basin. <i>Journal of Hydrology</i> , 2020, 590, 125231.	2.3	19
1734	Grasses continue to trump trees at soil carbon sequestration following herbivore exclusion in a semiarid African savanna. <i>Ecology</i> , 2020, 101, e03008.	1.5	43
1735	Woody plant encroachment may decrease plant carbon storage in grasslands under future drier conditions. <i>Journal of Plant Ecology</i> , 2020, 13, 213-223.	1.2	2

#	ARTICLE	IF	CITATIONS
1736	Neighbourhoodâ€dependent root distributions and the consequences on root separation in arid ecosystems. <i>Journal of Ecology</i> , 2020, 108, 1635-1648.	1.9	20
1737	Tamm Review: Influence of forest management activities on soil organic carbon stocks: A knowledge synthesis. <i>Forest Ecology and Management</i> , 2020, 466, 118127.	1.4	327
1738	Rhizosphere allocation by canopyâ€forming species dominates soil CO ₂ efflux in a subarctic landscape. <i>New Phytologist</i> , 2020, 227, 1818-1830.	3.5	16
1739	Soilâ€plant interactions in a pasture of the Italian Alps. <i>Journal of Plant Interactions</i> , 2020, 15, 39-49.	1.0	13
1740	Rooting depth as a key woody functional trait in savannas. <i>New Phytologist</i> , 2020, 227, 1350-1361.	3.5	47
1741	Different responses of leaf and root traits to changes in soil nutrient availability do not converge into a community-level plant economics spectrum. <i>Plant and Soil</i> , 2020, 450, 463-478.	1.8	28
1742	Role of microbes in grass-based phytoremediation. , 2020, , 303-336.		2
1743	Plant functional group drives the community structure of saprophytic fungi in a grassland biodiversity experiment. <i>Plant and Soil</i> , 2021, 461, 91-105.	1.8	50
1744	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
1745	Global patterns of biomass allocation in woody species with different tolerances of shade and drought: evidence for multiple strategies. <i>New Phytologist</i> , 2021, 229, 308-322.	3.5	43
1746	Estimation of carbon stocks in boreal cropland soils â€methodological considerations. <i>European Journal of Soil Science</i> , 2021, 72, 934-945.	1.8	21
1747	The pitfalls of water potential for irrigation scheduling. <i>Agricultural Water Management</i> , 2021, 243, 106522.	2.4	23
1748	Impact evaluation of geomorphic changes caused by extreme floods on inundation area considering geomorphic variations and land use types. <i>Science of the Total Environment</i> , 2021, 754, 142424.	3.9	25
1749	Nitrogen deposition regulates the clonal growth of <i>Leymus chinensis</i> , a typical clonal plant in arid and semi-arid regions. <i>International Journal of Climate Change Strategies and Management</i> , 2020, 12, 739-756.	1.5	3
1750	Fine Root and Soil Organic Carbon Depth Distributions are Inversely Related Across Fertility and Rainfall Gradients in Lowland Tropical Forests. <i>Ecosystems</i> , 2021, 24, 1075-1092.	1.6	20
1751	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
1752	The association between bushclumps of Calcrete Bontveld and the adjacent Valley Thicket. <i>South African Journal of Botany</i> , 2021, 137, 406-413.	1.2	2
1753	Shoot and root biomass production in semi-arid shrublands exposed to long-term experimental N input. <i>Science of the Total Environment</i> , 2021, 754, 142204.	3.9	9

#	ARTICLE	IF	CITATIONS
1754	Detecting Shallow Groundwater From Spaceborne Soil Moisture Observations. <i>Water Resources Research</i> , 2021, 57, e2020WR029102.	1.7	13
1755	Origin of carbon in agricultural soil profiles deduced from depth gradients of C:N ratios, carbon fractions, $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ values. <i>Plant and Soil</i> , 2021, 460, 123-148.	1.8	16
1756	Trace metals as indicators of tree rooting in bituminous soils. <i>Land Degradation and Development</i> , 2021, 32, 1970-1980.	1.8	1
1757	Toward catchment hydro-geochemical theories. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021, 8, e1495.	2.8	65
1758	Improving quality of metal-contaminated soils by some halophyte and non-halophyte forage plants. <i>Science of the Total Environment</i> , 2021, 764, 142885.	3.9	17
1760	Dynamic of boron in forest ecosystems traced by its isotopes: A modeling approach. <i>Chemical Geology</i> , 2021, 560, 119994.	1.4	5
1761	The Global Ecosystems Monitoring network: Monitoring ecosystem productivity and carbon cycling across the tropics. <i>Biological Conservation</i> , 2021, 253, 108889.	1.9	42
1762	Effect of Potassium Solubilizing Bacteria and Humic Acid on Faba Bean (<i>Vicia faba</i> L.) Plants Grown on Sandy Loam Soils. <i>Journal of Soil Science and Plant Nutrition</i> , 2021, 21, 791-800.	1.7	18
1763	Effect of Biochar on CO ₂ Sequestration and Productivity of Pearl Millet Plants Grown in Saline Sodic Soils. <i>Journal of Soil Science and Plant Nutrition</i> , 2021, 21, 897-907.	1.7	22
1764	Soil carbon flux research in the Asian region: Review and future perspectives. <i>J Agricultural Meteorology</i> , 2021, 77, 24-51.	0.8	8
1765	Trait-Based Modeling of Terrestrial Ecosystems: Advances and Challenges Under Global Change. <i>Current Climate Change Reports</i> , 2021, 7, 1-13.	2.8	17
1767	Vertical root distribution and biomass allocation along proglacial chronosequences in Central Switzerland. <i>Arctic, Antarctic, and Alpine Research</i> , 2021, 53, 20-34.	0.4	11
1768	Variability in tree water uptake determined with stable water isotopes in an African tropical montane forest. <i>Ecohydrology</i> , 2021, 14, e2278.	1.1	5
1769	Boreal conifer seedling responses to experimental competition removal during summer drought. <i>Ecosphere</i> , 2021, 12, e03391.	1.0	3
1770	Minimum levels of atmospheric oxygen from fossil tree roots imply new plant-oxygen feedback. <i>Geobiology</i> , 2021, 19, 250-260.	1.1	6
1772	Squandering water in drylands: the water-use strategy of the phreatophyte <i>Ziziphus lotus</i> in a groundwater-dependent ecosystem. <i>American Journal of Botany</i> , 2021, 108, 236-248.	0.8	11
1774	Biomass partitioning in response to intraspecific competition depends on nutrients and species characteristics: A study of 43 plant species. <i>Journal of Ecology</i> , 2021, 109, 2219-2233.	1.9	36
1775	Diverging responses of high-latitude CO ₂ and CH ₄ emissions in idealized climate change scenarios. <i>Cryosphere</i> , 2021, 15, 1097-1130.	1.5	13

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1776	Vertical distribution analysis of soil organic carbon and total nitrogen in different land use patterns of an agro-organic farm. <i>Tropical Ecology</i> , 2021, 62, 386-397.	0.6	8
1777	Mitigating nitrogen pollution with under-sown legume-grass cover crop mixtures in winter cereals. <i>Journal of Environmental Quality</i> , 2021, 50, 324-335.	1.0	7
1778	Estimation of Grassland Carrying Capacity by Applying High Spatiotemporal Remote Sensing Techniques in Zhenglan Banner, Inner Mongolia, China. <i>Sustainability</i> , 2021, 13, 3123.	1.6	7
1779	Participatory multi-objective optimization for planning dense and green cities. <i>Journal of Environmental Planning and Management</i> , 2021, 64, 2532-2551.	2.4	16
1780	Environmental factors controlling vegetation attributes, soil nutrients and hydrolases in South Mediterranean arid grasslands. <i>Ecological Engineering</i> , 2021, 161, 106155.	1.6	11
1781	White-Sand Savannas Expand at the Core of the Amazon After Forest Wildfires. <i>Ecosystems</i> , 2021, 24, 1624-1637.	1.6	27
1782	Water Budgets of Managed Forests in Northeast Germany under Climate Change—Results from a Model Study on Forest Monitoring Sites. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2403.	1.3	4
1783	Effect of phytoremediation on the shear strength characteristics of silty clayey sand. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 3903-3922.	1.6	6
1784	Shrubland biomass and root-shoot allocation along a climate gradient in China. <i>Plant Ecology and Evolution</i> , 2021, 154, 5-14.	0.3	4
1785	Canopy temperature and heat stress are increased by compound high air temperature and water stress and reduced by irrigation—a modeling analysis. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 1411-1423.	1.9	29
1786	Density manipulation and pruning on fine root production and decomposition dynamics in a mature <i>Acacia mangium</i> Willd. stand in Kerala, India. <i>Agroforestry Systems</i> , 2021, 95, 1017-1031.	0.9	0
1787	The production and nutrients in the fine roots of fertilized <i>Pinus tabulaeformis</i> plantation forests in the Loess Plateau in China. <i>Journal of Forest Research</i> , 2021, 26, 287-293.	0.7	0
1788	Root system plays an important role in responses of plant to drought in the steppe of China. <i>Land Degradation and Development</i> , 2021, 32, 3498-3506.	1.8	8
1789	Above and Belowground Relative Yield Total of Clover-Ryegrass Mixtures Exceed One in Wet and Dry Years. <i>Agriculture (Switzerland)</i> , 2021, 11, 206.	1.4	3
1790	The biomes of Western Australia: a vegetation-based approach using the zonality/ azonality conceptual framework. <i>New Zealand Journal of Botany</i> , 2022, 60, 354-376.	0.8	13
1792	Effect of Phytoremediation on Geotechnical Characteristics of Oil Contaminated Sands. <i>Soil and Sediment Contamination</i> , 2021, 30, 943-963.	1.1	6
1793	Controls on the hydraulic geometry of alluvial channels: bank stability to gravitational failure, the critical-flow hypothesis, and conservation of mass and energy. <i>Earth Surface Dynamics</i> , 2021, 9, 379-391.	1.0	5
1794	Plant phenology evaluation of CRESCENDO land surface models—Part 1: Start and end of the growing season. <i>Biogeosciences</i> , 2021, 18, 2405-2428.	1.3	19

#	ARTICLE	IF	CITATIONS
1795	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
1796	Vertical root distribution in Himalayan trees: about half of roots occur below 30 cm, the generally sampled depth. <i>Tropical Ecology</i> , 2021, 62, 479-491.	0.6	5
1797	Annual Net Primary Productivity of Different Functional Groups as Affected by Different Intensities of Rainfall Reduction in the Semiarid Grasslands of the Gauteng Province in South Africa. <i>Agronomy</i> , 2021, 11, 730.	1.3	3
1798	Plasticity of pine tree roots to podzolization of boreal sandy soils. <i>Plant and Soil</i> , 2021, 464, 209-222.	1.8	4
1801	Microbial Activity and Root Carbon Inputs Are More Important than Soil Carbon Diffusion in Simulating Soil Carbon Profiles. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006205.	1.3	9
1802	Patterns of nitrogen and phosphorus stoichiometry among leaf, stem and root of desert plants and responses to climate and soil factors in Xinjiang, China. <i>Catena</i> , 2021, 199, 105100.	2.2	73
1803	Simulating measurable ecosystem carbon and nitrogen dynamics with the mechanistically defined MEMS 2.0 model. <i>Biogeosciences</i> , 2021, 18, 3147-3171.	1.3	32
1804	The Ecology of Fine Roots across Forest Biomes. <i>Forests</i> , 2021, 12, 643.	0.9	0
1805	Plant residue mulch increases measured and modelled soil moisture content in the effective root zone of maize in semi-arid Kenya. <i>Soil and Tillage Research</i> , 2021, 209, 104945.	2.6	16
1806	The reduction of systematic temperature biases in soil moisture-limited regimes by stochastic root depth variations. <i>Journal of Hydrometeorology</i> , 2021, , .	0.7	2
1807	Timescales of the permafrost carbon cycle and legacy effects of temperature overshoot scenarios. <i>Nature Communications</i> , 2021, 12, 2688.	5.8	18
1808	Suffrutex grasslands in south-central Angola: belowground biomass, root structure, soil characteristics and vegetation dynamics of the "underground forests of Africa"™. <i>Journal of Tropical Ecology</i> , 2021, 37, 136-146.	0.5	6
1809	Hydrological Functioning of Maize Crops in Southwest France Using Eddy Covariance Measurements and a Land Surface Model. <i>Water (Switzerland)</i> , 2021, 13, 1481.	1.2	2
1810	Disentangling the Effects of Vapor Pressure Deficit and Soil Water Availability on Canopy Conductance in a Seasonal Tropical Forest During the 2015 El Niño Drought. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035004.	1.2	17
1811	Carbon turnover times shape topsoil carbon difference between Tibetan Plateau and Arctic tundra. <i>Science Bulletin</i> , 2021, 66, 1698-1704.	4.3	14
1812	Why Coordinated Distributed Experiments Should Go Global. <i>BioScience</i> , 2021, 71, 918-927.	2.2	12
1813	Higher biomass partitioning to absorptive roots improves needle nutrition but does not alleviate stomatal limitation of northern Scots pine. <i>Global Change Biology</i> , 2021, 27, 3859-3869.	4.2	7
1814	Impact of extreme floods on plants considering various influencing factors downstream of Lulun Reservoir, China. <i>Science of the Total Environment</i> , 2021, 768, 145312.	3.9	9

#	ARTICLE	IF	CITATIONS
1815	Influence of Nepalese alder on soil physico-chemical properties and fine root dynamics in white oak forests in the central Himalaya, India. <i>Catena</i> , 2021, 200, 105140.	2.2	23
1816	Beryllium cycling through deciduous trees and implications for meteoric ¹⁰ Be systematics. <i>Chemical Geology</i> , 2021, 571, 120174.	1.4	1
1817	Quantitative relationship between organic carbon and geochemical properties in tropical surface and subsurface soils. <i>Biogeochemistry</i> , 2021, 155, 77-95.	1.7	7
1818	Drought adaptability of phreatophytes: insight from vertical root distribution in drylands of China. <i>Journal of Plant Ecology</i> , 2021, 14, 1128-1142.	1.2	10
1819	Functional differentiation among 12 dipterocarp species under contrasting water availabilities in Northeast Thailand. <i>Botany</i> , 2021, 99, 321-335.	0.5	1
1820	Climate-controlled root zone parameters show potential to improve water flux simulations by land surface models. <i>Earth System Dynamics</i> , 2021, 12, 725-743.	2.7	7
1821	A Regional-Scale Non-Stationarity Based Framework in Unsaturated Zone Flow Modeling. , 2021, , .		2
1822	Grassland productivity estimates informed by soil moisture measurements: Statistical and mechanistic approaches. <i>Agronomy Journal</i> , 2021, 113, 3498-3517.	0.9	10
1823	Grass recruitment constraints along a grazing gradient in Patagonia: N-limitation x adult competition trade-off. <i>Journal of Arid Environments</i> , 2021, 189, 104480.	1.2	1
1824	The global distribution and environmental drivers of aboveground versus belowground plant biomass. <i>Nature Ecology and Evolution</i> , 2021, 5, 1110-1122.	3.4	88
1825	Modified method for the estimation of groundwater evapotranspiration under very shallow water table conditions based on diurnal water table fluctuations. <i>Journal of Hydrology</i> , 2021, 597, 126193.	2.3	5
1827	Remediating the Adverse Effects of Treated Wastewater Irrigation by Repeated Onâ€œSurface Surfactant Application. <i>Water Resources Research</i> , 2021, 57, e2020WR029429.	1.7	10
1828	Contrasting nutrient-mediated responses between surface and deep fine root biomass to N addition in poplar plantations on the east coast of China. <i>Forest Ecology and Management</i> , 2021, 490, 119152.	1.4	9
1829	Drought severity trend analysis based on the Landsat time-series dataset of 1998-2017 in the Iraqi Kurdistan Region. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 779, 012083.	0.2	1
1830	A global meta-analysis of the effects of plant diversity on biomass partitioning in grasslands. <i>Environmental Research Letters</i> , 2021, 16, 064083.	2.2	1
1831	Grassland ecological restoration based on the relationship between vegetation and its below-ground habitat analysis in steppe coal mine area. <i>Science of the Total Environment</i> , 2021, 778, 146221.	3.9	25
1833	Tamm Review: Fine root biomass in the organic (O) horizon in forest ecosystems: Global patterns and controlling factors. <i>Forest Ecology and Management</i> , 2021, 491, 119208.	1.4	6
1834	Roots are key to increasing the mean residence time of organic carbon entering temperate agricultural soils. <i>Global Change Biology</i> , 2021, 27, 4921-4934.	4.2	33

#	ARTICLE	IF	CITATIONS
1835	Variable tree rooting strategies are key for modelling the distribution, productivity and evapotranspiration of tropical evergreen forests. <i>Biogeosciences</i> , 2021, 18, 4091-4116.	1.3	11
1837	Dynamic ² H irrigation pulse labelling reveals rapid infiltration and mixing of precipitation in the soil and species-specific water uptake depths of trees in a temperate forest. <i>Ecohydrology</i> , 2021, 14, e2322.	1.1	12
1838	Forests buffer against variations in precipitation. <i>Global Change Biology</i> , 2021, 27, 4686-4696.	4.2	39
1839	SOC changes were more sensitive in alpine grasslands than in temperate grasslands during grassland transformation in China: A meta-analysis. <i>Journal of Cleaner Production</i> , 2021, 308, 127430.	4.6	27
1840	Land use drives the spatial variability of soil phosphorus in the Hexi Corridor, China. <i>Biogeochemistry</i> , 2021, 155, 59-75.	1.7	3
1841	Deconstructing precipitation variability: Rainfall event size and timing uniquely alter ecosystem dynamics. <i>Journal of Ecology</i> , 2021, 109, 3356-3369.	1.9	23
1842	Assessing the Contrasting Effects of the Exceptional 2015 Drought on the Carbon Dynamics in Two Norway Spruce Forest Ecosystems. <i>Atmosphere</i> , 2021, 12, 988.	1.0	5
1843	Robust Estimation of Absorbing Root Surface Distributions From Xylem Water Isotope Compositions With an Inverse Plant Hydraulic Model. <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	1.0	2
1844	Global Coordination in Plant Physiological and Rooting Strategies in Response to Water Stress. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006758.	1.9	16
1845	Plant-plant interactions and local patterns of diversity from semi-arid to subalpine Mediterranean plant communities. <i>Biodiversity and Conservation</i> , 2021, 30, 3481-3508.	1.2	2
1846	Local and non-local controls on seasonal variations in water availability and use by riparian trees along a hydroclimatic gradient. <i>Environmental Research Letters</i> , 2021, 16, 084018.	2.2	1
1847	Divergent vertical distributions of microbial biomass with soil depth among groups and land uses. <i>Journal of Environmental Management</i> , 2021, 292, 112755.	3.8	19
1848	Describing the vertical root distribution of alpine plants with simple climate, soil, and plant attributes. <i>Catena</i> , 2021, 203, 105305.	2.2	6
1849	Impact of Roots on Hydrogeological Parameters Supporting the Performance of a Cover with Capillary Barrier Effects. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021, 147, .	1.5	7
1850	Interspecific Soil Water Partitioning as a Driver of Increased Productivity in a Diverse Mixed Mediterranean Forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006382.	1.3	13
1851	A global map of root biomass across the world's forests. <i>Earth System Science Data</i> , 2021, 13, 4263-4274.	3.7	19
1852	Soil Hydrology Process and Rational Use of Soil Water in Desert Regions. <i>Water (Switzerland)</i> , 2021, 13, 2377.	1.2	6
1853	Wetland reclamation homogenizes microbial properties along soil profiles. <i>Geoderma</i> , 2021, 395, 115075.	2.3	18

#	ARTICLE	IF	CITATIONS
1854	Sensitivity of ecosystem-protected permafrost under changing boreal forest structures. <i>Environmental Research Letters</i> , 2021, 16, 084045.	2.2	11
1855	Comparison of fine root biomass and soil organic carbon stock between exotic and native mangrove. <i>Catena</i> , 2021, 204, 105423.	2.2	13
1857	Focusing on individual plants to understand community scale biodiversity effects: the case of root distribution in grasslands. <i>Oikos</i> , 0, , .	1.2	6
1858	A Quantitative Index Based on Leaf Heteroblasty for Predicting Root Biomass in a Frequently Burned Savanna Species: <i>Cussonia arborea</i> Hochst. Ex A. Rich. (Araliaceae). <i>International Journal of Plant & Soil Science</i> , 0, , 220-237.	0.2	0
1859	Response of different organs' stoichiometry of <i>Phragmites australis</i> to soil salinity in arid marshes, China. <i>Global Ecology and Conservation</i> , 2021, 31, e01843.	1.0	5
1860	Widespread woody plant use of water stored in bedrock. <i>Nature</i> , 2021, 597, 225-229.	13.7	99
1861	The supply-consumption relationship of ecological resources under ecological civilization construction in China. <i>Resources, Conservation and Recycling</i> , 2021, 172, 105679.	5.3	55
1862	Root derived C rather than root biomass contributes to the soil organic carbon sequestration in grassland soils with different fencing years. <i>Plant and Soil</i> , 2021, 469, 161-172.	1.8	4
1863	Variations and factors characterizing ecological niches of species in a stable grassland plant community. <i>Ecological Indicators</i> , 2021, 128, 107846.	2.6	11
1864	Retrieving gap-free daily root zone soil moisture using surface flux equilibrium theory. <i>Environmental Research Letters</i> , 2021, 16, 104007.	2.2	4
1865	Exploring how groundwater buffers the influence of heatwaves on vegetation function during multi-year droughts. <i>Earth System Dynamics</i> , 2021, 12, 919-938.	2.7	18
1866	Environmental Effects on Normalized Gross Primary Productivity in Beech and Norway Spruce Forests. <i>Atmosphere</i> , 2021, 12, 1128.	1.0	2
1867	Effects of soil water content on forest ecosystem water use efficiency through changes in transpiration/evapotranspiration ratio. <i>Agricultural and Forest Meteorology</i> , 2021, 308-309, 108605.	1.9	19
1868	Modeling soil chemical changes induced by grassland afforestation in a sedimentary plain with shallow groundwater. <i>Geoderma</i> , 2021, 400, 115158.	2.3	2
1869	Assessing and predicting soil carbon density in China using CMIP5 earth system models. <i>Science of the Total Environment</i> , 2021, 799, 149247.	3.9	5
1870	Spatial patterns of global-scale forest root-shoot ratio and their controlling factors. <i>Science of the Total Environment</i> , 2021, 800, 149251.	3.9	9
1871	Deepening roots can enhance carbonate weathering by amplifying CO ₂ -rich recharge. <i>Biogeosciences</i> , 2021, 18, 55-75.	1.3	31
1873	Pflanzen im Lebensraum. , 2021, , 947-1012.		0

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1875	Closing the scale gap between land surface parameterizations and <scp>GCM</scp>s with a new scheme, <scp>S</scp>i<scp>B</scp>3â€‹<scp>B</scp>ins. Journal of Advances in Modeling Earth Systems, 2017, 9, 691-711.	1.3	38
1877	BasinBox: a generic multimedia fate model for predicting the fate of chemicals in river catchments. , 2006, , 21-38.		1
1878	Tools Shape Paradigms of Plant-Environment Interactions. Progress in Botany Fortschritte Der Botanik, 2020, , 1-41.	0.1	3
1880	Root strength and root area ratio of forest species in Lombardy (Northern Italy). , 2007, , 31-41.		30
1881	Temperate Grasslands. Ecological Studies, 2001, , 121-137.	0.4	16
1882	Comparative Canopy Biology and the Structure of Ecosystems. , 2013, , 13-54.		8
1883	Impacts of Plant Invasions on Terrestrial Water Flows in South Africa. , 2020, , 431-457.		30
1884	Physical Properties of Forest Soils. , 2013, , 19-44.		14
1885	Perennial Grasslands Are Essential for Long Term SOC Storage in the Mollisols of the North Central USA. , 2014, , 281-288.		8
1886	Woody Plant Encroachment: Causes and Consequences. Springer Series on Environmental Management, 2017, , 25-84.	0.3	266
1887	Fine root mass, distribution and regeneration in disturbed primary forests and secondary forests of the moist tropics. , 2007, , 87-106.		4
1888	Carbon and Water Tradeoffs in Conversions to Forests and Shrublands. , 2007, , 237-246.		10
1889	The Influence of Subterranean Rodents on the Environment. , 2007, , 267-270.		2
1890	Functional Differences in Soil Water Pools: a New Perspective on Plant Water Use in Water-Limited Ecosystems. Progress in Botany Fortschritte Der Botanik, 2008, , 397-422.	0.1	62
1891	Rooting Patterns of Old-Growth Forests: is Aboveground Structural and Functional Diversity Mirrored Belowground?. Ecological Studies, 2009, , 211-229.	0.4	7
1892	Effects of â€œENSO-eventsâ€ and rainforest conversion on river discharge in Central Sulawesi (Indonesia). Environmental Science and Engineering, 2010, , 327-350.	0.1	3
1893	Biogeochemical cycling in tropical forests. , 2011, , 315-341.		2
1894	Fine Root Biomass of Temperate Forests in Relation to Soil Acidity and Fertility, Climate, Age and Species. Progress in Botany Fortschritte Der Botanik, 2003, , 405-438.	0.1	95

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1895	Competition and Coexistence in Terrestrial Plants. <i>Ecological Studies</i> , 2002, , 165-206.	0.4	28
1896	Model Analysis of Carbon and Nitrogen Cycling in <i>Picea</i> and <i>Fagus</i> Forests. <i>Ecological Studies</i> , 2000, , 419-467.	0.4	5
1897	Structure and Dynamics of the Root System. <i>Ecological Studies</i> , 1999, , 47-59.	0.4	40
1898	Sampling Strategies, Scaling, and Statistics. , 2000, , 147-173.		51
1899	Auger Sampling, Ingrowth Cores and Pinboard Methods. , 2000, , 175-210.		90
1900	The Carbon Cycle of Contrasting Landscape Elements of the BornhÃved Lake District. <i>Ecological Studies</i> , 2001, , 75-95.	0.4	16
1901	Distribution of Roots in Soil, and Root Foraging Activity. <i>Ecological Studies</i> , 2003, , 33-60.	0.4	43
1902	Carbon Dynamics and Pools in Major Forest Biomes of the World. , 2010, , 159-205.		6
1903	Plant Roots and Soil Structure. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 628-632.	0.1	11
1904	Ecosystem Carbon and Soil Biodiversity. , 2013, , 131-153.		2
1906	Analysis of some direct and indirect methods for estimating root biomass and production of forests at an ecosystem level. , 1998, , 687-720.		60
1907	The Potential Effects of Elevated CO ₂ and Climate Change on Tropical Forest Soils and Biogeochemical Cycling. , 1998, , 197-221.		5
1908	Rooting strategy of naturally regenerated beech in Silver birch and Scots pine woodlands. , 2003, , 265-279.		11
1909	Subsoil root activity in tree-based cropping systems. , 2003, , 319-331.		13
1910	Sinker Root System in Trees with Emphasis on Soil Profile. , 2016, , 463-474.		2
1911	Molecular Mechanisms of Plant-Microbe Interactions in the Rhizosphere as Targets for Improving Plant Productivity. <i>Rhizosphere Biology</i> , 2021, , 295-338.	0.4	8
1912	Deep soil exploration vs. topsoil exploitation: distinctive rooting strategies between wheat landraces and wild relatives. <i>Plant and Soil</i> , 2021, 459, 397-421.	1.8	27
1913	Temperate Grassland and Shrubland Ecosystems. , 2001, , 627-635.		8

#	ARTICLE	IF	CITATIONS
1914	Grassland-cropland rotation cycles in crop-livestock farming systems regulate priming effect potential in soils through modulation of microbial communities, composition of soil organic matter and abiotic soil properties. <i>Agriculture, Ecosystems and Environment</i> , 2020, 299, 106973.	2.5	25
1915	Impact of regional characteristics on the estimation of root-zone soil moisture from the evaporative index or evaporative fraction. <i>Agricultural Water Management</i> , 2020, 238, 106225.	2.4	10
1916	Impact of living mulch on soil C:N:P stoichiometry in orchards across China: A meta-analysis examining climatic, edaphic, and biotic dependency. <i>Pedosphere</i> , 2020, 30, 181-189.	2.1	13
1920	Climate Change and Forest Dynamics: A Soils Perspective. <i>Issues in Environmental Science and Technology</i> , 2012, , 158-182.	0.4	6
1921	Soil Physical Degradation: Threats and Opportunities to Food Security. <i>Issues in Environmental Science and Technology</i> , 2012, , 198-226.	0.4	6
1922	Root biomass distribution under three cover types in a patchy <i>Pseudotsuga menziesii</i> forest in western Canada. <i>Annals of Forest Science</i> , 2003, 60, 469-474.	0.8	4
1923	Comparison of Effects of Root Water Uptake Functions for Simulating Surface Water and Heat Fluxes within a Corn Farmland Ecosystem in Northeast China. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2017, 143, .	0.6	3
1924	Assisted natural recovery using a forest soil propagule bank in the athabasca oil sands.. , 0, , 374-382.		11
1925	Rootzone storage capacity reveals drought coping strategies along rainforest-savanna transitions. <i>Environmental Research Letters</i> , 2020, 15, 124021.	2.2	28
1927	Late twentieth-century patterns and trends in the climate of tropical forest regions. , 2005, , 3-16.		16
1928	Twenty-first century atmospheric change and deforestation: potential impacts on tropical forests. , 2005, , 17-30.		3
1929	Forestâ€œclimate interactions in fragmented tropical landscapes. , 2005, , 31-39.		4
1930	Predicting the impacts of global environmental changes on tropical forests. , 2005, , 41-56.		1
1931	Ecophysiological and biogeochemical responses to atmospheric change. , 2005, , 57-66.		1
1932	The effects of drought on tropical forest ecosystems. , 2005, , 75-84.		18
1933	Late twentieth-century patterns and trends in Amazon tree turnover. , 2005, , 107-128.		3
1934	Error propagation and scaling for tropical forest biomass estimates. , 2005, , 155-164.		5
1935	Climate change and speciation in neotropical seasonally dry forest plants. , 2005, , 199-214.		3

#	ARTICLE	IF	CITATIONS
1936	The prospects for tropical forests in the twenty-first-century atmosphere. , 2005, , 215-226.		1
1941	The Impact of Climate Change on Groundwater. , 2006, , 28-1-28-42.		3
1942	Functional Attributes in Mediterranean-Type Ecosystems. Books in Soils, Plants, and the Environment, 2007, , .	0.1	7
1943	A Broad- Scale Perspective on the Extent, Distribution, and Characteristics of U. S. Grazing Lands. , 2000, , .		7
1944	Biomass partition and carbon storage of <i>Cunninghamia lanceolata</i> chronosequence plantations in Dabie Mountains in East China. <i>Dendrobiology</i> , 0, 76, 165-174.	0.6	10
1945	Biomass and Its Allocation in Relation to Temperature, Precipitation, and Soil Nutrients in Inner Mongolia Grasslands, China. <i>PLoS ONE</i> , 2013, 8, e69561.	1.1	38
1946	Biomass Allocation Patterns across Chinaâ€™s Terrestrial Biomes. <i>PLoS ONE</i> , 2014, 9, e93566.	1.1	26
1947	Traceable Calibration, Performance Metrics, and Uncertainty Estimates of Minirhizotron Digital Imagery for Fine-Root Measurements. <i>PLoS ONE</i> , 2014, 9, e112362.	1.1	5
1948	Variation of Soil Organic Carbon and Its Major Constraints in East Central Asia. <i>PLoS ONE</i> , 2016, 11, e0150709.	1.1	5
1949	Above- and Belowground Biomass Allocation in Shrub Biomes across the Northeast Tibetan Plateau. <i>PLoS ONE</i> , 2016, 11, e0154251.	1.1	27
1950	Disentangling the Effects of Precipitation Amount and Frequency on the Performance of 14 Grassland Species. <i>PLoS ONE</i> , 2016, 11, e0162310.	1.1	35
1951	Soil C, N, P and K stoichiometry affected by vegetation restoration patterns in the alpine region of the Loess Plateau, Northwest China. <i>PLoS ONE</i> , 2020, 15, e0241859.	1.1	5
1952	Estimating coarse roots biomass in young silver birch stands on post-agricultural lands in central Poland. <i>Silva Fennica</i> , 2013, 47, .	0.5	18
1954	Correlation of Root Structures and Soil Properties in the Near-Surface Soil of Three Forest Types in the Southern Mountains of Henan Province, China. <i>Journal of Agricultural Science and Applications</i> , 2012, 01, 79-85.	0.2	1
1955	Fine root biomass and root length density in a lowland and a montane tropical rain forest, SP, Brazil. <i>Biota Neotropica</i> , 2011, 11, 203-209.	1.0	19
1956	CARBON CONTENTS AND ITS VERTICAL DISTRIBUTION IN ALPINE GRASSLANDS IN BAYINBULAK, MIDDLE STRETCH OF THE TIANSHAN MOUNTAINS OF XINJIANG. <i>Chinese Journal of Plant Ecology</i> , 2006, 30, 545-552.	0.3	5
1958	Measured Soil Moisture is a Better Predictor of Large Growingâ€™Season Wildfires than the Keetchâ€™Byram Drought Index. <i>Soil Science Society of America Journal</i> , 2017, 81, 490-502.	1.2	23
1959	Simulating Tritium Fluxes in the Vadose Zone under Transient Saturated Conditions. <i>Vadose Zone Journal</i> , 2007, 6, 387-396.	1.3	4

#	ARTICLE	IF	CITATIONS
1961	Environmental factors that determine responsiveness of plants to arbuscular mycorrhizal fungal inoculation. <i>Root Research</i> , 2019, 28, 23-37.	0.1	3
1962	Effects of climate and land use on landscape soil respiration in northern Wisconsin, USA: 1972 to 2001. <i>Climate Research</i> , 2005, 28, 163-173.	0.4	5
1963	Effects of seagrass <i>Thalassia testudinum</i> on sediment redox. <i>Marine Ecology - Progress Series</i> , 2001, 219, 149-158.	0.9	55
1964	A New Approach Using Modeling to Interpret Measured Changes in Soil Organic Carbon in Forests; The Case of a 200 Year Pine Chronosequence on a Podzolic Soil in Scotland. <i>Frontiers in Environmental Science</i> , 2020, 8, .	1.5	4
1965	Temporal variation and spatial distribution of the root system of corn in a soil profile. <i>Chinese Journal of Eco-Agriculture</i> , 2009, 17, 517-521.	0.1	14
1966	Biomass Distribution of Natural Grasslands and Its Response to Climate Change in North China. <i>Arid Zone Research</i> , 2008, 25, 90-97.	0.1	13
1967	Overyielding of fine root biomass as increasing plant species richness in subtropical forests in central southern China. <i>Chinese Journal of Plant Ecology</i> , 2011, 35, 539-550.	0.3	2
1968	Review of root nutrient foraging plasticity and root competition of plants. <i>Chinese Journal of Plant Ecology</i> , 2013, 36, 1184-1196.	0.3	6
1969	Factors controlling soil organic matter decomposition in small home gardens in different regions of Indonesia. <i>Tropics</i> , 2007, 17, 59-72.	0.2	2
1971	Perspective on the control of invasive mesquite trees and possible alternative uses. <i>IForest</i> , 2018, 11, 577-585.	0.5	8
1972	Preliminary indications for diverging heat and drought sensitivities in Norway spruce and Scots pine in Central Europe. <i>IForest</i> , 2020, 13, 89-91.	0.5	19
1974	Soil Depth and Changes in Dry Mass and Competitive Intensity of Two C ₄ Grasses. <i>American Journal of Plant Sciences</i> , 2014, 05, 138-147.	0.3	3
1975	Stable Oxygen and Deuterium Isotope Techniques to Identify Plant Water Sources. <i>Journal of Water Resource and Protection</i> , 2014, 06, 1501-1508.	0.3	10
1976	Carbon stocks and its variations with topography in an intact lowland mixed dipterocarp forest in Brunei. <i>Journal of Ecology and Environment</i> , 2015, 38, 75-84.	1.6	7
1977	Investigating the sensitivity of soil heterotrophic respiration to recent snow cover changes in Alaska using a satellite-based permafrost carbon model. <i>Biogeosciences</i> , 2020, 17, 5861-5882.	1.3	11
1989	Terrestrial methane emissions from the Last Glacial Maximum to the preindustrial period. <i>Climate of the Past</i> , 2020, 16, 575-595.	1.3	27
1995	Evapotranspiration partition using the multiple energy balance version of the ISBA-A-g<sub>s</sub> land surface model over two irrigated crops in a semi-arid Mediterranean region (Marrakech, Morocco). <i>Hydrology and Earth System Sciences</i> , 2020, 24, 3789-3814.	1.9	10
1996	Understanding the mass, momentum, and energy transfer in the frozen soil with three levels of model complexities. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 4813-4830.	1.9	30

#	ARTICLE	IF	CITATIONS
2004	Land-use perturbations in ley grassland decouple the degradation of ancient soil organic matter from the storage of newly derived carbon inputs. <i>Soil</i> , 2020, 6, 435-451.	2.2	5
2006	The distribution of fine root length density for six artificial afforestation tree species in Loess Plateau of Northwest China. <i>Forest Systems</i> , 2015, 24, 003.	0.1	8
2007	Using Soil Moisture Data to Estimate Evapotranspiration and Development of a Physically Based Root Water Uptake Model. , 0, , .		5
2008	Temporal and Spatial Dynamics Analysis of Grassland Ecosystem Pressure in Kazakhstan. <i>Journal of Resources and Ecology</i> , 2019, 10, 667.	0.2	4
2010	Belowground Services in Vineyard Agroforestry Systems. , 2021, , 65-94.		2
2011	Climate Change with Its Impacts on Soil and Soil Microbiome Regulating Biogeochemical Nutrient Transformations. <i>Soil Biology</i> , 2021, , 95-138.	0.6	1
2012	Impact of Climate Change on Functional Root-Derived Signals. <i>Soil Biology</i> , 2021, , 3-11.	0.6	0
2013	Soil water dynamics and water balance on a tropical coral island. <i>Hydrological Processes</i> , 2021, 35, e14415.	1.1	2
2014	Evaluation of Clumping Effects on the Estimation of Global Terrestrial Evapotranspiration. <i>Remote Sensing</i> , 2021, 13, 4075.	1.8	7
2015	A starting guide to root ecology: strengthening ecological concepts and standardising root classification, sampling, processing and trait measurements. <i>New Phytologist</i> , 2021, 232, 973-1122.	3.5	216
2016	Standard litterbags underestimate early-stage lower-order root decomposition rate in a subtropical forest, China. <i>Plant and Soil</i> , 2021, 469, 335-346.	1.8	5
2017	Linking fine root architecture, vertical distribution and growth rate in temperate mountain shrubs. <i>Oikos</i> , 2023, 2023, .	1.2	4
2018	Comparison of winter wheat (<i>Triticum aestivum</i> L.) root length density distribution models under salt stress. <i>Rhizosphere</i> , 2021, 20, 100452.	1.4	2
2020	Root Biomass and Microbial Processes. , 2000, , .		9
2021	Soil Carbon Sequestration Potential. , 0, , .		0
2022	Carbon Cycling in Forest Ecosystems with an Emphasis on Belowground Processes. , 2002, , .		0
2023	Water sources estimation of trees in an arid area of Western Australia by stable isotope ratio analysis. <i>Suimon Mizu Shigen Gakkaishi</i> , 2003, 16, 518-526.	0.1	2
2024	Erfassung und Quantifizierung der Strukturen von Wurzelsystemverbänden heterogener Pflanzengesellschaften mittels Bild- und Fraktalanalyse. , 2004, , 20-28.		0

#	ARTICLE	IF	CITATIONS
2025	References Part D. Global Change - the IGBP Series, 2004, , 465-479.	2.1	0
2026	References Part A. Global Change - the IGBP Series, 2004, , 137-153.	2.1	0
2027	References Part C. Global Change - the IGBP Series, 2004, , 291-295.	2.1	0
2028	Regolith Water in Zero-Order Chaparral and Perennial Grass Watersheds Four Decades after Vegetation Conversion. <i>Vadose Zone Journal</i> , 2004, 3, 1007-1016.	1.3	0
2029	Ecological responses of Amazonian forests to El Niño-induced surface fires. , 2005, , 87-96.		0
2030	Late twentieth-century trends in tree-community composition in an Amazonian forest. , 2005, , 97-106.		1
2031	Late twentieth-century trends in the biomass of Amazonian forest plots. , 2005, , 129-142.		2
2032	Late twentieth-century trends in the structure and dynamics of South American forests. , 2005, , 143-154.		0
2033	The longevity and resilience of the Amazon rainforest. , 2005, , 167-182.		0
2034	Tropical forests dynamics in response to a CO ₂ -rich atmosphere. , 2005, , 67-74.		0
2035	Amazonian ecosystems and atmospheric change since the last glacial maximum. , 2005, , 183-190.		0
2036	Modelling the past and the future fate of the Amazonian forest. , 2005, , 191-198.		1
2038	Approach to water cycle in forest ecosystems. <i>Investigacion Agraria Sistemas Y Recursos Forestales</i> , 2005, 14, 497.	0.4	1
2039	Policy implications of a pan-tropic assessment of the simultaneous hydrological and biodiversity impacts of deforestation. , 2006, , 211-232.		0
2040	LEAF AREA AND ROOT DENSITY MEASUREMENTS FOR USE IN COVER PERFORMANCE EVALUATIONS ON SEMI-ARID RECLAIMED MINE LANDS. <i>Journal of the American Society of Mining and Reclamation</i> , 2006, 2006, 1694-1703.	0.3	1
2041	The Future of Ecological Risk Assessment. , 2006, , .		0
2042	Prairies, Savannas, and Forests and Global Carbon Management – The Challenges. , 2007, , 251-261.		0
2043	Structure and Function of Root Systems. <i>Books in Soils, Plants, and the Environment</i> , 2007, , .	0.1	1

#	ARTICLE	IF	CITATIONS
2045	Study on the Accumulation of Aboveground Biomass of <i>Lespedeza hedysaroides</i> and <i>L. davurica</i> . <i>Arid Zone Research</i> , 2008, 25, 82-89.	0.1	1
2046	Transgenic strategies for improved drought tolerance in legumes of semi-arid tropics. , 2010, , 261-277.		1
2047	Substrate conditions, root and arbuscular mycorrhizal colonisation of landforms rehabilitated after coal mining, sub-tropical Queensland. , 2011, , .		0
2048	Estimation of hydraulic redistribution of <i>Populus euphratica</i> in Ebinur Lake Wetland Nature Reserve in Xinjiang Uygur Autonomous Region, China. <i>Chinese Journal of Plant Ecology</i> , 2011, 35, 816-824.	0.3	3
2049	Movement of Water in the Soil Root Zone During Transpiration. , 2012, , 85-126.		0
2052	Quantification of Tree Root Depth for Basin-Scale Sediment Yield Simulation. <i>Korean Society of Hazard Mitigation</i> , 2015, 15, 301-311.	0.1	1
2055	Phase Field Simulation of Static Recrystallization Considering Deformation Microstructures and Inhomogeneous Distribution of Stored Energy Based on Lattice Deformation Model. <i>DEStech Transactions on Materials Science and Engineering</i> , 2017, , .	0.0	0
2056	Contribution of the ground penetrating radar data in civil engineering: A case study from Algeria. , 2017, , .		1
2057	Pflanzen in Ä–kosystemen. , 2018, , 151-196.		0
2058	Effects of Grazing and Browsing on Tropical Savanna Vegetation. <i>Ecological Studies</i> , 2019, , 237-257.	0.4	3
2059	Response of Grassland Community and Stoichiometry to Nitrogen and Phosphorus Addition on Micro-Topography in the Hilly Loess Plateau. <i>International Journal of Ecology</i> , 2019, 08, 283-293.	0.0	0
2061	Root structure of shrub encroaching plants in the African savannas: insights from <i>Terminalia sericea</i> (Burch. ex dc) across a climate gradient in the Kalahari Basin. <i>European Journal of Ecology</i> , 2020, 6, 17-26.	0.1	1
2063	Rhizosphere Legacy: Plant Root Interactions with the Soil and Its Biome. <i>Rhizosphere Biology</i> , 2021, , 129-153.	0.4	3
2064	Precipitation Controls on Soil Biogeochemical and Microbial Community Composition in Rainfed Agricultural Systems in Tropical Drylands. <i>Sustainability</i> , 2021, 13, 11848.	1.6	0
2065	Plant Responses to Changing Water Supply and Availability in High Elevation Ecosystems: A Quantitative Systematic Review and Meta-Analysis. <i>Land</i> , 2021, 10, 1150.	1.2	6
2066	Considerations for Selecting Potassium Placement Methods in Soil. , 2021, , 341-362.		1
2067	Soil carbon stocks and water stable aggregates under annual and perennial biofuel crops in central Ohio. <i>Agriculture, Ecosystems and Environment</i> , 2022, 324, 107715.	2.5	14
2068	Structure and biomass accumulation of natural mangrove forest at Gazi Bay, Kenya. <i>International Journal of Bonorowo Wetlands</i> , 2020, 10, .	0.2	0

#	ARTICLE	IF	CITATIONS
2069	Global Shallow Groundwater Patterns From Soil Moisture Satellite Retrievals. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 89-101.	2.3	5
2071	Effects of Compounded Precipitation Pattern Intensification and Drought Occur Belowground in a Mesic Grassland. Ecosystems, 2022, 25, 1265-1278.	1.6	10
2072	Depth-dependent drivers of soil microbial necromass carbon across Tibetan alpine grasslands. Global Change Biology, 2022, 28, 936-949.	4.2	51
2073	Impact and trade off analysis of land use change on spatial pattern of ecosystem services in Chishui River Basin. Environmental Science and Pollution Research, 2022, 29, 20234-20248.	2.7	15
2074	Nitrogen use efficiency of terrestrial plants in China: geographic patterns, evolution, and determinants. Ecological Processes, 2021, 10, .	1.6	7
2075	Root Growth Dynamics and Structure in Seedlings of Four Shade Tolerant Mediterranean Species Grown under Moderate and Low Light. Forests, 2021, 12, 1540.	0.9	1
2077	Nutrient-cycling and climate change in tropical forests. , 2007, , 295-316.		0
2078	Altitudinal pattern of shrub biomass allocation in Southwest China. PLoS ONE, 2020, 15, e0240861.	1.1	4
2079	Can an invasive African grass affect carbon and nitrogen stocks in open habitats of the Brazilian Cerrado?. Flora: Morphology, Distribution, Functional Ecology of Plants, 2022, 286, 151968.	0.6	4
2080	Effects of stand age and inter-annual precipitation variability on fine root biomass in poplar plantations in the eastern coastal China. Forest Ecology and Management, 2022, 505, 119883.	1.4	10
2081	Above- and belowground biomass allocation and its regulation by plant density in six common grassland species in China. Journal of Plant Research, 2022, 135, 41-53.	1.2	7
2082	Root traits reveal safety and efficiency differences in grasses and shrubs exposed to different fire regimes. Functional Ecology, 2022, 36, 368-379.	1.7	5
2083	Globally altitudinal trends in soil carbon and nitrogen storages. Catena, 2022, 210, 105870.	2.2	5
2084	The response of coarse root biomass to long-term CO ₂ enrichment and nitrogen application in a maturing <i>Pinus taeda</i> stand with a large broadleaved component. Global Change Biology, 2022, 28, 1458-1476.	4.2	4
2085	Effect of soil water content changes caused by ridge-furrow plastic film mulching on the root distribution and water use pattern of spring maize in the Loess Plateau. Agricultural Water Management, 2022, 261, 107338.	2.4	24
2086	Embracing the dynamic nature of soil structure: A paradigm illuminating the role of life in critical zones of the Anthropocene. Earth-Science Reviews, 2022, 225, 103873.	4.0	35
2087	Tradeoffs and Synergies in Tropical Forest Root Traits and Dynamics for Nutrient and Water Acquisition: Field and Modeling Advances. Frontiers in Forests and Global Change, 2021, 4, .	1.0	13
2088	On the Below- and Aboveground Phenology in Deciduous Trees: Observing the Fine-Root Lifespan, Turnover Rate, and Phenology of <i>Fagus sylvatica</i> L., <i>Quercus robur</i> L., and <i>Betula pendula</i> Roth for Two Growing Seasons. Forests, 2021, 12, 1680.	0.9	5

#	ARTICLE	IF	CITATIONS
2089	Influence of wind and slope on buttress development in temperate tree species. <i>Plant Root</i> , 2021, 15, 50-59.	0.3	1
2090	Modelling the artificial forest (<i>Robinia pseudoacacia</i> rootâ€“soil water interactions in the Loess Plateau, China. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 17-34.	1.9	13
2091	Estimation of groundwater recharge in a shallow sandy aquifer using unsaturated zone modeling and water table fluctuation method. <i>Journal of Hydrology</i> , 2022, 605, 127283.	2.3	24
2092	Examination of aboveground attributes to predict belowground biomass of young trees. <i>Forest Ecology and Management</i> , 2022, 505, 119942.	1.4	12
2093	Resistance of plant communities to invasion by tall fescue: An experimental study combining species diversity, functional traits and nutrient levels. <i>Basic and Applied Ecology</i> , 2022, 58, 39-49.	1.2	3
2094	Global evidence on the asymmetric response of gross primary productivity to interannual precipitation changes. <i>Science of the Total Environment</i> , 2022, 814, 152786.	3.9	10
2095	Estimating Global Evapotranspiration Using Smap Surface and Root-Zone Moisture Content. , 2020, , .		0
2096	Soil Organic Matter (SOM) and Nutrient Cycling. , 2021, , 383-411.		0
2097	Hyphae move matter and microbes to mineral microsites: Integrating the hyphosphere into conceptual models of soil organic matter stabilization. <i>Global Change Biology</i> , 2022, 28, 2527-2540.	4.2	68
2098	A Bibliometric Analysis of Global Fine Roots Research in Forest Ecosystems during 1992â€“2020. <i>Forests</i> , 2022, 13, 93.	0.9	8
2099	The role of fine root morphology in nitrogen uptake by riparian plants. <i>Plant and Soil</i> , 2022, 472, 527-542.	1.8	9
2100	Observed Landscape Responsiveness to Climate Forcing. <i>Water Resources Research</i> , 2022, 58, .	1.7	9
2101	Land Degradation Changes the Role of Above- and Belowground Competition in Regulating Plant Biomass Allocation in an Alpine Meadow. <i>Frontiers in Plant Science</i> , 2022, 13, 822594.	1.7	3
2102	Assessment of the impact of floods on terrestrial plant biodiversity. <i>Journal of Cleaner Production</i> , 2022, 339, 130722.	4.6	8
2103	Soil carbon sequestration potential of planting hedgerows in agricultural landscapes. <i>Journal of Environmental Management</i> , 2022, 307, 114484.	3.8	14
2104	Bioenergy Underground: Challenges and opportunities for phenotyping roots and the microbiome for sustainable bioenergy crop production. <i>The Plant Phenome Journal</i> , 2022, 5, .	1.0	9
2105	Does Long-Term Industrial Pollution Affect the Fine and Coarse Root Mass in Forests? Preliminary Investigation of Two Copper Smelter Contaminated Areas. <i>Water, Air, and Soil Pollution</i> , 2022, 233, 1.	1.1	7
2106	Plant sizes and shapes above and belowground and their interactions with climate. <i>New Phytologist</i> , 2022, 235, 1032-1056.	3.5	45

#	ARTICLE	IF	CITATIONS
2107	Soil Respiration Phenology Improves Modeled Phase of Terrestrial net Ecosystem Exchange in Northern Hemisphere. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	3
2108	RUSSELL REVIEW Are plant roots only “in” soil or are they “of” it? Roots, soil formation and function. <i>European Journal of Soil Science</i> , 2022, 73, .	1.8	19
2109	Using hybrid modelling to predict basal area and evaluate effects of climate change on growth of Norway spruce and Scots pine stands. <i>Scandinavian Journal of Forest Research</i> , 2022, 37, 59-73.	0.5	7
2110	Improving Slope Stability Estimates by Incorporating Geophysical and Remote Sensing Monitoring Data into Hydro-Geomechanical Modeling. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
2112	Blue-Sky Albedo Reduction and Associated Influencing Factors of Stable Land Cover Types in the Middle-High Latitudes of the Northern Hemisphere during 1982–2015. <i>Remote Sensing</i> , 2022, 14, 895.	1.8	1
2113	Biomass distribution pattern and stoichiometric characteristics in main shrub ecosystems in Central Yunnan, China. <i>PeerJ</i> , 2022, 10, e13005.	0.9	1
2115	A new approach to simulate peat accumulation, degradation and stability in a global land surface scheme (JULES vn5.8_accumulate_soil) for northern and temperate peatlands. <i>Geoscientific Model Development</i> , 2022, 15, 1633-1657.	1.3	6
2116	Numerical study of the utility of bioengineering technique for slope stabilisation. <i>Geomechanics and Geoengineering</i> , 2023, 18, 253-271.	0.9	0
2117	Interspecific variation in the timing and magnitude of hydraulic redistribution in a forest with distinct water sources. <i>Plant and Soil</i> , 2022, 472, 451-464.	1.8	2
2118	Quantifying Woody Plant Encroachment in Grasslands: A Review on Remote Sensing Approaches. <i>Canadian Journal of Remote Sensing</i> , 2022, 48, 337-378.	1.1	5
2119	Leading trait dimensions in flood-tolerant plants. <i>Annals of Botany</i> , 2022, 130, 383-392.	1.4	4
2120	Potential Satellite Monitoring of Surface Organic Soil Properties in Arctic Tundra From SMAP. <i>Water Resources Research</i> , 2022, 58, .	1.7	6
2121	Seven-Year Changes in Bulk Density Following Forest Harvesting and Machine Trafficking in Alberta, Canada. <i>Forests</i> , 2022, 13, 553.	0.9	4
2122	Patterns of belowground overyielding and fine-root biomass in native and exotic angiosperms and gymnosperms. <i>Oikos</i> , 0, , .	1.2	1
2123	Installation and imaging of thousands of minirhizotrons to phenotype root systems of field-grown plants. <i>Plant Methods</i> , 2022, 18, 39.	1.9	8
2124	Additive effects of warming and grazing on fine-root decomposition and loss of nutrients in an alpine meadow. <i>Journal of Plant Ecology</i> , 2022, 15, 1273-1284.	1.2	2
2125	Multiple resource limitation of dryland soil microbial carbon cycling on the Colorado Plateau. <i>Ecology</i> , 2022, 103, e3671.	1.5	10
2126	Assessing the Ecological Carrying Capacity of Countries along the Belt and Road. <i>Journal of Resources and Ecology</i> , 2022, 13, .	0.2	0

#	ARTICLE	IF	CITATIONS
2127	Soil organic matter storage in temperate lowland arable, grassland and woodland topsoil and subsoil. <i>Soil Use and Management</i> , 2022, 38, 1532-1546.	2.6	14
2128	Plant hydraulics, stomatal control, and the response of a tropical forest to water stress over multiple temporal scales. <i>Global Change Biology</i> , 2022, 28, 4359-4376.	4.2	6
2129	Plant-derived lipids play a crucial role in forest soil carbon accumulation. <i>Soil Biology and Biochemistry</i> , 2022, 168, 108645.	4.2	26
2130	On the Leonardo's rule for the assessment of root profile. <i>Ecological Engineering</i> , 2022, 179, 106620.	1.6	3
2131	Deep root information "hidden in the dark": A case study on the 21-m soil profile of <i>Robinia pseudoacacia</i> in the critical zone of the Chinese loess Plateau. <i>Catena</i> , 2022, 213, 106121.	2.2	9
2132	Patterns of total root and shoot carbon dioxide fluxes and their impact on daily tree carbon budget in large tropical tree saplings. <i>Tree Physiology</i> , 2022, 42, 958-970.	1.4	1
2133	Carbono orgánico del suelo y su relación con la biomasa radical de <i>Quercus</i> sp.. <i>Madera Bosques</i> , 2021, 27, .	0.1	1
2134	Evaluation and Scale Forecast of Underground Space Resources of Historical and Cultural Cities in China. <i>ISPRS International Journal of Geo-Information</i> , 2022, 11, 31.	1.4	6
2135	Long-term grassland restoration exerts stronger impacts on the vertical distribution of labile over recalcitrant organic carbon fractions in Mollisols. <i>Soil Science Society of America Journal</i> , 0, , .	1.2	4
2136	Global biogeography. , 0, , 364-392.		0
2146	Communicating Nitrogen Loss Mechanisms for Improving Nitrogen Use Efficiency Management, Focused on Global Wheat. <i>Nitrogen</i> , 2022, 3, 213-246.	0.6	12
2147	Surface soil organic carbon sequestration under post agricultural grasslands offset by net loss at depth. <i>Biogeochemistry</i> , 2022, 159, 303-313.	1.7	1
2148	Contrasting Dynamics in the Fine Root Mass of Angiosperm and Gymnosperm Forests on the Global Scale. <i>Ecosystems</i> , 2023, 26, 428-441.	1.6	3
2149	Estimating the Actual Evapotranspiration of Different Vegetation Types Based on Root Distribution Functions. <i>Frontiers in Earth Science</i> , 2022, 10, .	0.8	5
2150	Coupled modelling of hydrological processes and grassland production in two contrasting climates. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 2277-2299.	1.9	4
2151	Diverse chronic responses of vegetation aboveground net primary productivity to climatic changes on Three-River Headwaters region. <i>Ecological Indicators</i> , 2022, 139, 108925.	2.6	7
2152	Is it necessary to apply chemical weed control in short-rotation poplar plantations on deep soil sites?. <i>Industrial Crops and Products</i> , 2022, 184, 115025.	2.5	2
2153	Contribution of deep soil layers to the transpiration of a temperate deciduous forest: Implications for the modelling of productivity. <i>Science of the Total Environment</i> , 2022, 838, 155981.	3.9	3

#	ARTICLE	IF	CITATIONS
2154	Climate Change Increases the Severity and Duration of Soil Water Stress in the Temperate Forest of Eastern North America. <i>Frontiers in Forests and Global Change</i> , 2022, 5, .	1.0	7
2155	Impact of stormwater infiltration on rainfall-derived inflow and infiltration: A physically based surface–subsurface urban hydrologic model. <i>Journal of Hydrology</i> , 2022, 610, 127938.	2.3	11
2156	Fine-Root Biomass Production and its Contribution to Organic Matter Accumulation in Sedge Fens Under Changing Climate. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
2157	Water table depth modulates productivity and biomass across Amazonian forests. <i>Global Ecology and Biogeography</i> , 2022, 31, 1571-1588.	2.7	17
2158	Repeated extreme droughts decrease root production, but not the potential for post-drought recovery of root production, in a mesic grassland. <i>Oikos</i> , 2023, 2023, .	1.2	10
2159	Tracking Global Patterns of Drought-Induced Productivity Loss Along Severity Gradient. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2022, 127, .	1.3	6
2163	Spatial and Temporal Variations in Plant Source Water: O and H Isotope Ratios from Precipitation to Xylem Water. <i>Tree Physiology</i> , 2022, , 501-535.	0.9	6
2164	A New Exploration on Grassland Degradation Mechanism Through an Eco-Geological Method Under the Influence of Coal Mining Activities. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
2165	Soil Depth Significantly Shifted Microbial Community Structures and Functions in a Semiarid Prairie Agroecosystem. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	7
2166	Inverse unsaturated-zone flow modeling for groundwater recharge estimation: a regional spatial nonstationary approach. <i>Hydrogeology Journal</i> , 0, , .	0.9	1
2167	Precipitation versus temperature as phenology controls in drylands. <i>Ecology</i> , 2022, 103, .	1.5	17
2168	Enrichment of ¹³ C with depth in soil organic horizons is not explained by CO ₂ or DOC losses during decomposition. <i>Geoderma</i> , 2022, 424, 116004.	2.3	5
2169	Stand development modifies effects of soil water availability on poplar fine-root traits: evidence from a six-year experiment. <i>Plant and Soil</i> , 2022, 480, 165-184.	1.8	11
2170	Processus et causes de défaillance du génie végétal pour la stabilisation des berges de rivières: retour d'expérience sur un large jeu de données issues de la BD GeniVeg. <i>Geomorphologie Relief, Processus, Environnement</i> , 2022, 28, 105-120.	0.7	0
2171	Upscaling Methane Flux From Plot Level to Eddy Covariance Tower Domains in Five Alaskan Tundra Ecosystems. <i>Frontiers in Environmental Science</i> , 0, 10, .	1.5	0
2172	Global stocks and capacity of mineral-associated soil organic carbon. <i>Nature Communications</i> , 2022, 13, .	5.8	146
2173	Response of soil microbial biomass C, N, and P and microbial quotient to agriculture and agricultural abandonment in a meadow steppe of northeast China. <i>Soil and Tillage Research</i> , 2022, 223, 105475.	2.6	7
2174	SurEau-Ecos v2.0: a trait-based plant hydraulics model for simulations of plant water status and drought-induced mortality at the ecosystem level. <i>Geoscientific Model Development</i> , 2022, 15, 5593-5626.	1.3	11

#	ARTICLE	IF	CITATIONS
2175	Exploring the role of bedrock representation on plant transpiration response during dry periods at four forested sites in Europe. <i>Biogeosciences</i> , 2022, 19, 3395-3423.	1.3	3
2176	Mismatch of N release from the permafrost and vegetative uptake opens pathways of increasing nitrous oxide emissions in the high Arctic. <i>Global Change Biology</i> , 2022, 28, 5973-5990.	4.2	11
2177	Conversion of natural grassland to cropland alters microbial community assembly across northern China. <i>Environmental Microbiology</i> , 2022, 24, 5630-5642.	1.8	5
2183	Decoupling between soil moisture and biomass drives seasonal variations in live fuel moisture across co-occurring plant functional types. <i>Fire Ecology</i> , 2022, 18, .	1.1	10
2184	Organic carbon compounds associated with deep soil carbon stores. <i>Plant and Soil</i> , 0, , .	1.8	1
2185	Magnesium stable isotopes as a potential geochemical tool in agronomy – Constraints and opportunities. <i>Chemical Geology</i> , 2022, 611, 121114.	1.4	5
2186	The effect of afforestation on moist heat stress in Loess Plateau, China. <i>Journal of Hydrology: Regional Studies</i> , 2022, 44, 101209.	1.0	0
2187	Deep Soil Carbon: Characteristics and Measurement with Particular Bearing on Kaolinitic Profiles. , 2022, , 347-372.		2
2188	Türkiye'nin Orta Karadeniz Bölgesi Ova Bölgesi Vegetasyonunda Otlanan Bir Alan ile Komşu Bir Otlansız Alanın Yeraltı Biyokütlesi ve Verimliliği. , 0, , .		0
2189	A Systematic Classification Method for Grassland Community Division Using China's ZY1-02D Hyperspectral Observations. <i>Remote Sensing</i> , 2022, 14, 3751.	1.8	4
2190	Contribution of Fine Roots to Soil Organic Carbon Accumulation in Different Desert Communities in the Sangong River Basin. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 10936.	1.2	3
2192	Developing a parsimonious canopy model (PCM v1.0) to predict forest gross primary productivity and leaf area index of deciduous broad-leaved forest. <i>Geoscientific Model Development</i> , 2022, 15, 6957-6984.	1.3	1
2193	Nitrogen and Phosphorus of Plants Associated with Arbuscular and Ectomycorrhizas Are Differentially Influenced by Drought. <i>Plants</i> , 2022, 11, 2429.	1.6	4
2194	Spatio-temporal Pattern of Ecosystem Pressure in Countries Along the Belt and Road: Combining Remote Sensing Data and Statistical Data. <i>Chinese Geographical Science</i> , 2022, 32, 745-758.	1.2	4
2195	Soil carbon stock assessment using depth and spatial models on afforested arable lands. <i>South African Journal of Plant and Soil</i> , 0, , 1-13.	0.4	0
2196	Stronger fertilization effects on aboveground versus belowground plant properties across nine U.S. grasslands. <i>Ecology</i> , 2023, 104, .	1.5	14
2197	Dryland soil microbiome response to long-term precipitation variability depends on host type. <i>Journal of Ecology</i> , 2022, 110, 2984-2997.	1.9	0
2198	Water Retention Characteristics of Mineral Forest Soils in Finland: Impacts for Modeling Soil Moisture. <i>Forests</i> , 2022, 13, 1797.	0.9	1

#	ARTICLE	IF	CITATIONS
2199	Low sensitivity of three terrestrial biosphere models to soil texture over the South American tropics. <i>Geoscientific Model Development</i> , 2022, 15, 7573-7591.	1.3	0
2200	Global distribution of soil fauna functional groups and their estimated litter consumption across biomes. <i>Scientific Reports</i> , 2022, 12, .	1.6	14
2201	Plant water uptake modelling: added value of cross-disciplinary approaches. <i>Plant Biology</i> , 2023, 25, 32-42.	1.8	3
2202	Fine-root biomass production and its contribution to organic matter accumulation in sedge fens under changing climate. <i>Science of the Total Environment</i> , 2023, 858, 159683.	3.9	4
2203	Soil moisture-vegetation interaction from near-global in-situ soil moisture measurements. <i>Environmental Research Letters</i> , 2022, 17, 114028.	2.2	6
2204	Nitrogen addition weakens the biodiversity multifunctionality relationships across soil profiles in a grassland assemblage. <i>Agriculture, Ecosystems and Environment</i> , 2023, 342, 108241.	2.5	12
2205	Grapevine Rooting Patterns: A Comprehensive Analysis and a Review. <i>American Journal of Enology and Viticulture</i> , 2006, 57, 89-104.	0.9	153
2206	Seasonal controlling factors of CO ₂ exchange in a semiarid shrubland in the Chihuahuan Desert, Mexico. <i>Science of the Total Environment</i> , 2023, 858, 159918.	3.9	3
2207	<i>Artemisia argyi</i> water extract promotes selenium uptake of peach seedlings. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	5
2208	Global-scale Shifts in Rooting Depths Due To Anthropocene Land Cover Changes Pose Unexamined Consequences for Critical Zone Functioning. <i>Earth's Future</i> , 2022, 10, .	2.4	6
2209	Plant hydraulic modelling of leaf and canopy fuel moisture content reveals increasing vulnerability of a Mediterranean forest to wildfires under extreme drought. <i>New Phytologist</i> , 2023, 237, 1256-1269.	3.5	5
2210	Subsurface Soil Carbon and Nitrogen Losses Offset Surface Carbon Accumulation in Abandoned Agricultural Fields. <i>Ecosystems</i> , 2023, 26, 924-935.	1.6	1
2211	Ying Fan and groundwater's global impact. <i>Journal of Hydrology</i> , 2023, 617, 128923.	2.3	0
2212	Assessing probability of failure of urban landslides through rapid characterization of soil properties and vegetation distribution. <i>Geomorphology</i> , 2023, 423, 108560.	1.1	5
2213	Field evaluation of selected autochthonous herbaceous species for cover crops in Mediterranean woody crops. <i>European Journal of Agronomy</i> , 2023, 143, 126723.	1.9	0
2214	Grassland Communities and Ecosystems. , 2024, , 382-390.		1
2215	Effects of Edaphic Factors at Different Depths on β -Diversity Patterns for Subtropical Plant Communities Based on MS-GDM in Southern China. <i>Forests</i> , 2022, 13, 2184.	0.9	1
2216	In Situ Rainwater Collection and Infiltration System Alleviates the Negative Effects of Drought on Plant-Available Water, Fine Root Distribution and Plant Hydraulic Conductivity. <i>Forests</i> , 2022, 13, 2082.	0.9	2

#	ARTICLE	IF	CITATIONS
2217	Above- and Below-ground Mass Allocation and Characteristics of Root Distribution in a 13-Year-old <i>Melia azedarach</i> ; Stand. Journal of the Japanese Forest Society, 2022, 104, 343-349.	0.1	0
2218	Carbonates in the Critical Zone. <i>Earth's Future</i> , 2023, 11, .	2.4	10
2219	Estimaci3n de carbono en las ra3ces en bosques de la Sierra de Manantla, M3xico. <i>Madera Bosques</i> , 2022, 28, e2822431.	0.1	0
2220	Contrasting responses of early and late season plant phenophases to altered precipitation. <i>Oikos</i> , 2023, .	1.2	5
2221	Flushing or mixing? Stable water isotopes reveal differences in arctic forest and peatland soil water seasonality. <i>Hydrological Processes</i> , 2023, 37, .	1.1	2
2222	Near constant groundwater recharge efficiency under global change in a central European catchment. <i>Hydrological Processes</i> , 2023, 37, .	1.1	1
2223	Traits that distinguish dominant species across aridity gradients differ from those that respond to soil moisture. <i>Oecologia</i> , 2023, 201, 311-322.	0.9	2
2224	Exploring plant and soil microbial communities as indicators of soil organic carbon in a California rangeland. <i>Soil Biology and Biochemistry</i> , 2023, 178, 108952.	4.2	4
2225	A generalized framework for drought monitoring across Central European grassland gradients with Sentinel-2 time series. <i>Remote Sensing of Environment</i> , 2023, 286, 113449.	4.6	4
2226	The inverted forest: Aboveground and notably large belowground carbon stocks and their drivers in Brazilian savannas. <i>Science of the Total Environment</i> , 2023, 867, 161320.	3.9	4
2227	Fine-resolution global maps of root biomass carbon colonized by arbuscular and ectomycorrhizal fungi. <i>Scientific Data</i> , 2023, 10, .	2.4	3
2228	Remotely Sensed Soil Moisture Can Capture Dynamics Relevant to Plant Water Uptake. <i>Water Resources Research</i> , 2023, 59, .	1.7	15
2229	Boreal Forest Ecosystems. , 2024, , 350-362.		1
2230	Effects of intra-annual precipitation patterns on grassland productivity moderated by the dominant species phenology. <i>Frontiers in Plant Science</i> , 0, 14, .	1.7	1
2231	Mining of Deep Nitrogen Facilitates <i>Phragmites australis</i> Invasion in Coastal Saltmarshes. <i>Estuaries and Coasts</i> , 2023, 46, 998-1008.	1.0	2
2232	Impact of climate change on groundwater recharge in shallow young glacial aquifers in northern Poland. <i>Science of the Total Environment</i> , 2023, 877, 162904.	3.9	4
2233	Remediation of Cd contaminated paddy fields by intercropping of the high- and low- Cd-accumulating rice cultivars. <i>Science of the Total Environment</i> , 2023, 878, 163133.	3.9	4
2234	Root litter decomposition rates and impacts of drought are regulated by ecosystem legacy. <i>Applied Soil Ecology</i> , 2023, 189, 104903.	2.1	0

#	ARTICLE	IF	CITATIONS
2235	The influence of elevated CO ₂ and soil depth on rhizosphere activity and nutrient availability in a mature <i>Eucalyptus</i> woodland. <i>Biogeosciences</i> , 2023, 20, 505-521.	1.3	2
2236	Above- and belowground linkages during extreme moisture excess: leveraging knowledge from natural ecosystems to better understand implications for row-crop agroecosystems. <i>Journal of Experimental Botany</i> , 2023, 74, 2845-2859.	2.4	4
2237	Root distribution of <i>Adansonia digitata</i> , <i>Faidherbia albida</i> and <i>Borassus akeassii</i> along a climate gradient in Senegal. <i>Agroforestry Systems</i> , 2023, 97, 605-615.	0.9	0
2238	Moisture-driven divergence in mineral-associated soil carbon persistence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, .	3.3	19
2239	Global Leaf Area Index Research over the Past 75 Years: A Comprehensive Review and Bibliometric Analysis. <i>Sustainability</i> , 2023, 15, 3072.	1.6	1
2241	Croplands in the Pampas of Argentina will become an atmospheric carbon sink in coming decades. <i>Geoderma Regional</i> , 2023, 32, e00626.	0.9	0
2242	Ecohydrological decoupling under changing disturbances and climate. <i>One Earth</i> , 2023, 6, 251-266.	3.6	4
2243	Grazing exclusion reduces belowground biomass of temperate subhumid grasslands of South America: A meta-analysis and a database. <i>Austral Ecology</i> , 2024, 49, .	0.7	0
2244	Soil organic carbon regulation from chemistry in top- but microbial community in subsoil in eastern coastal China poplar plantations. <i>Frontiers in Forests and Global Change</i> , 0, 6, .	1.0	0
2245	Comprehensive review of carbon quantification by improved forest management offset protocols. <i>Frontiers in Forests and Global Change</i> , 0, 6, .	1.0	13
2246	Assessing the Effect of Slope Position on the Community Assemblage of Soil Diazotrophs and Root Arbuscular Mycorrhizal Fungi. <i>Journal of Fungi (Basel, Switzerland)</i> , 2023, 9, 394.	1.5	2
2247	A Framework for Analysing Spatial Patterns and Extent of Influence by Single Trees on Ecosystem Properties in Agroforestry. , 2023, , 685-717.		0
2248	Unusual late-fall wildfire in a pre-Alpine <i>Fagus sylvatica</i> forest reduced fine roots in the shallower soil layer and shifted very fine-root growth to deeper soil depth. <i>Scientific Reports</i> , 2023, 13, .	1.6	2
2330	Farming Technologies and Carbon Sequestration Alternatives to Combat Climate Change Through Mitigation of Greenhouse Gas Emissions. <i>Sustainable Development Goals Series</i> , 2023, , 253-275.	0.2	0
2338	Bedrock: the hidden water reservoir for trees challenged by drought. <i>Trees - Structure and Function</i> , 2024, 38, 1-11.	0.9	0
2342	Mechanical effects of plant roots on concentrated flow erosion rates. , 2024, , 317-344.		0