

# Maximum rooting depth of vegetation types at the glob

Oecologia

108, 583-595

DOI: [10.1007/bf00329030](https://doi.org/10.1007/bf00329030)

Citation Report

#	ARTICLE	IF	CITATIONS
3	A DEPARTMENT OF GEOGRAPHY. <i>Science</i> , 1943, 98, 564-566.	6.0	13
4	Quantitative Effects of Grazing on Vegetation and Soils Over a Global Range of Environments. <i>Ecological Monographs</i> , 1993, 63, 327-366.	2.4	1,559
5	A global analysis of root distributions for terrestrial biomes. <i>Oecologia</i> , 1996, 108, 389-411.	0.9	2,353
6	Rooting depth, water availability, and vegetation cover along an aridity gradient in Patagonia. <i>Oecologia</i> , 1996, 108, 503-511.	0.9	282
7	A global budget for fine root biomass, surface area, and nutrient contents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 7362-7366.	3.3	1,189
8	PLANT COMPETITION UNDERGROUND. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 1997, 28, 545-570.	6.7	889
9	Tansley Review No. 95 15 N natural abundance in soil-plant systems. <i>New Phytologist</i> , 1997, 137, 179-203.	3.5	1,438
10	Seasonal Changes in Photosynthesis and Stomatal Conductance of Five Plant Species from a Semiarid Ecosystem. <i>Photosynthetica</i> , 1998, 35, 399-410.	0.9	34
11	Hydraulic lift: consequences of water efflux from the roots of plants. <i>Oecologia</i> , 1998, 113, 151-161.	0.9	836
12	Study design and interpretation of mammalian carnivore density estimates. <i>Oecologia</i> , 1998, 113, 474-491.	0.9	43
13	Downward flux of water through roots (i.e. inverse hydraulic lift) in dry Kalahari sands. <i>Oecologia</i> , 1998, 115, 460-462.	0.9	142
14	A method of determining rooting depth from a terrestrial biosphere model and its impacts on the global water and carbon cycle. <i>Global Change Biology</i> , 1998, 4, 275-286.	4.2	138
15	A model for hydrological equilibrium of leaf area index on a global scale. <i>Journal of Hydrology</i> , 1998, 212-213, 268-286.	2.3	82
16	Estimating direct groundwater recharge using a simple water balance model – sensitivity to land surface parameters. <i>Journal of Hydrology</i> , 1998, 211, 112-125.	2.3	86
17	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
18	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
19	The role of root distribution for climate simulation over land. <i>Geophysical Research Letters</i> , 1998, 25, 4533-4536.	1.5	69
20	Optimised rooting depth and its impacts on the simulated climate of an atmospheric general circulation model. <i>Geophysical Research Letters</i> , 1998, 25, 345-348.	1.5	62

#	ARTICLE	IF	CITATIONS
21	Biological Processes in Soils. , 1998, , 81-116.		0
23	The response of Pinus sylvestris to drought: stomatal control of transpiration and hydraulic conductance. Tree Physiology, 1998, 18, 393-402.	1.4	239
24	Rooting Nodes of Deep Roots in Rice and Maize Grown in a Long Tube. Plant Production Science, 1998, 1, 242-247.	0.9	24
25	WATER BALANCE DELINEATES THE SOIL LAYER IN WHICH MOISTURE AFFECTS CANOPY CONDUCTANCE. , 1998, 8, 990-1002.		131
26	Ecosystem rooting depth determined with caves and DNA. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 11387-11392.	3.3	241
27	Different distribution patterns of woody species on a slope in relation to vertical root distribution and dynamics of soil moisture profiles. Ecological Research, 1999, 14, 165-177.	0.7	53
28	Growth, loss, and vertical distribution of Pinus radiata fine roots growing at ambient and elevated CO 2 concentration. Global Change Biology, 1999, 5, 107-121.	4.2	51
29	Deep-rooted vegetation, Amazonian deforestation, and climate: results from a modelling study. Global Ecology and Biogeography, 1999, 8, 397-405.	2.7	27
30	Title is missing!. Plant and Soil, 1999, 214, 27-38.	1.8	70
31	Woody life-form composition and association on rainfall and soil fertility gradients in Ghana. Plant Ecology, 1999, 145, 167-173.	0.7	12
32	Title is missing!. Landscape Ecology, 1999, 14, 465-478.	1.9	194
33	Tentative nitrogen budget for pit latrines - eastern Botswana. Environmental Geology, 1999, 38, 199-203.	1.2	51
34	Ecosystem consequences of plant life form changes at three sites in the semiarid United States. Oecologia, 1999, 121, 551-563.	0.9	104
35	The influence of rooting depth on the simulated hydrological cycle of a GCM. Physics and Chemistry of the Earth, 1999, 24, 775-779.	0.3	4
36	Stable isotopes in ecosystem science: structure, function and dynamics of a subtropical savanna. , 1999, 13, 1263-1277.		126
37	How Soils Structure Communities in the Antarctic Dry Valleys. BioScience, 1999, 49, 973-983.	2.2	120
38	Ecology of Mediterranean Evergreen Oak Forests. Ecological Studies, 1999, , .	0.4	92
39	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

#	ARTICLE	IF	CITATIONS
40	Inclusion of a Third Soil Layer in a Land Surface Scheme Using the Forceâ€Restore Method. <i>Journal of Applied Meteorology and Climatology</i> , 1999, 38, 1611-1630.	1.7	165
41	Modeling Soil Moisture and Surface Flux Variability with an Untuned Land Surface Scheme: A Case Study from the Southern Great Plains 1997 Hydrology Experiment. <i>Journal of Hydrometeorology</i> , 2000, 1, 154-169.	0.7	33
42	Dynamic Simulation of Tree-Grass Interactions for Global Change Studies. , 2000, 10, 449.		7
43	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
44	Growth and reproductive responses to elevated CO2 in wild cereals of the northern Negev of Israel. <i>Global Change Biology</i> , 2000, 6, 631-638.	4.2	33
45	Annual and interannual CO2 exchanges of the terrestrial biosphere: process-based simulations and uncertainties. <i>Global Ecology and Biogeography</i> , 2000, 9, 225-252.	2.7	217
46	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
47	Woody species tolerance to expansion of the perennial tussock grass <i>Ampelodesmos mauritanica</i> after fire. <i>Journal of Vegetation Science</i> , 2000, 11, 597-606.	1.1	13
48	Assessing the role of deep rooted vegetation in the climate system with model simulations: mechanism, comparison to observations and implications for Amazonian deforestation. <i>Climate Dynamics</i> , 2000, 16, 183-199.	1.7	111
49	Commentary: Carbon Metabolism of the Terrestrial Biosphere: A Multitechnique Approach for Improved Understanding. <i>Ecosystems</i> , 2000, 3, 115-130.	1.6	225
50	BELOWGROUND CONSEQUENCES OF VEGETATION CHANGE AND THEIR TREATMENT IN MODELS. , 2000, 10, 470-483.		295
51	Intra- and Interspecific Variation for Summer Precipitation Use in Pinyon-Juniper Woodlands. <i>Ecological Monographs</i> , 2000, 70, 517.	2.4	16
52	Root Methods. , 2000, , .		127
53	DYNAMIC SIMULATION OF TREEâ€GRASS INTERACTIONS FOR GLOBAL CHANGE STUDIES. , 2000, 10, 449-469.		59
54	INTRA- AND INTERSPECIFIC VARIATION FOR SUMMER PRECIPITATION USE IN PINYONâ€JUNIPER WOODLANDS. <i>Ecological Monographs</i> , 2000, 70, 517-537.	2.4	219
55	WATER AND NITROGEN UPTAKE PATTERNS FOLLOWING MOISTURE PULSES IN A COLD DESERT COMMUNITY. <i>Ecology</i> , 2000, 81, 1415-1424.	1.5	157
56	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
57	Using Satellite Data Assimilation to Infer Global Soil Moisture Status and Vegetation Feedback to Climate. <i>Advances in Global Change Research</i> , 2001, , 273-306.	1.6	12

#	ARTICLE	IF	CITATIONS
58	Ecophysiology of trees of seasonally dry tropics: Comparisons among phenologies. <i>Advances in Ecological Research</i> , 2001, 32, 113-197.	1.4	169
59	One-, two-, and three-dimensional root water uptake functions for transient modeling. <i>Water Resources Research</i> , 2001, 37, 2457-2470.	1.7	282
60	GLOBAL-SCALE CLIMATIC CONTROLS OF LEAF DRY MASS PER AREA, DENSITY, AND THICKNESS IN TREES AND SHRUBS. <i>Ecology</i> , 2001, 82, 453-469.	1.5	699
61	Modeling Root Water Uptake in Hydrological and Climate Models. <i>Bulletin of the American Meteorological Society</i> , 2001, 82, 2797-2809.	1.7	330
62	Root systems of some Chihuahuan Desert plants. <i>Journal of Arid Environments</i> , 2001, 49, 221-263.	1.2	174
63	Phenological patterns of nine perennial plants in an intertropical semi-arid Mexican scrub. <i>Journal of Arid Environments</i> , 2001, 49, 265-277.	1.2	66
64	Deep roots sustain amazonian rainforest in climate model simulations of the Last Ice Age. <i>Geophysical Research Letters</i> , 2001, 28, 2425-2428.	1.5	16
65	Response of mean annual evapotranspiration to vegetation changes at catchment scale. <i>Water Resources Research</i> , 2001, 37, 701-708.	1.7	1,944
66	Relationships between root characteristics and seed size in two contrasting floras. <i>Acta Oecologica</i> , 2001, 22, 77-85.	0.5	22
67	Long-term rise in a Sahelian water-table: the Continental Terminal in South-West Niger. <i>Journal of Hydrology</i> , 2001, 243, 43-54.	2.3	193
68	Estimating maximum mean canopy stomatal conductance for use in models. <i>Canadian Journal of Forest Research</i> , 2001, 31, 198-207.	0.8	46
69	Phenology, Growth, and Allocation in Global Terrestrial Productivity. , 2001, , 61-82.		24
70	FIRE AND GRAZING REGULATE BELOWGROUND PROCESSES IN TALLGRASS PRAIRIE. <i>Ecology</i> , 2001, 82, 3377-3389.	1.5	284
71	Trees in Grasslands. , 2001, , 115-137.		210
72	Towards understanding tree root profiles: simulating hydrologically optimal strategies for root distribution. <i>Hydrology and Earth System Sciences</i> , 2001, 5, 629-644.	1.9	55
73	Calibration of a Two-Dimensional Root Water Uptake Model. <i>Soil Science Society of America Journal</i> , 2001, 65, 1027-1037.	1.2	237
74	The distribution and strength of riparian tree roots in relation to riverbank reinforcement. <i>Hydrological Processes</i> , 2001, 15, 63-79.	1.1	306
75	The distribution of soil nutrients with depth: Global patterns and the imprint of plants. <i>Biogeochemistry</i> , 2001, 53, 51-77.	1.7	850

#	ARTICLE	IF	CITATIONS
76	Below-Ground Processes in Gap Models for Simulating Forest Response to Global Change. <i>Climatic Change</i> , 2001, 51, 449-473.	1.7	31
77	Plants in water-controlled ecosystems: active role in hydrologic processes and response to water stress. <i>Advances in Water Resources</i> , 2001, 24, 707-723.	1.7	742
78	Global Vegetation Root Distribution for Land Modeling. <i>Journal of Hydrometeorology</i> , 2001, 2, 525-530.	0.7	191
79	Development of Species Dominance along an Elevational Gradient: Population Dynamics of <i>Pinus edulis</i> and <i>Juniperus monosperma</i> . <i>International Journal of Plant Sciences</i> , 2001, 162, 777-783.	0.6	27
80	A gender difference in the association between <i>APOE</i> genotype and age-related cognitive decline. <i>Neurology</i> , 2001, 57, 89-95.	1.5	156
81	Coupling of the Common Land Model to the NCAR Community Climate Model. <i>Journal of Climate</i> , 2002, 15, 1832-1854.	1.2	224
82	Soil Water Uptake and Water Transport Through Root Systems. , 2002, , 663-681.		5
83	Deep arid system hydrodynamics 1. Equilibrium states and response times in thick desert vadose zones. <i>Water Resources Research</i> , 2002, 38, 44-1-44-15.	1.7	82
84	On the identification of macroscopic root water uptake parameters from soil water content observations. <i>Water Resources Research</i> , 2002, 38, 36-1-36-14.	1.7	57
85	THE GLOBAL BIOGEOGRAPHY OF ROOTS. <i>Ecological Monographs</i> , 2002, 72, 311-328.	2.4	816
86	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
87	Validation of a canopy gas exchange model and derivation of a soil water modifier for transpiration for sugar maple ( <i>Acer saccharum</i> Marsh.) using sap flow density measurements. <i>Forest Ecology and Management</i> , 2002, 163, 185-196.	1.4	61
88	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
89	Plant biomass and production and CO <sub>2</sub> exchange in an ombrotrophic bog. <i>Journal of Ecology</i> , 2002, 90, 25-36.	1.9	315
90	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
91	Recharge Estimation for Transient Ground Water Modeling. <i>Ground Water</i> , 2002, 40, 638-648.	0.7	107
92	Do deep tree roots provide nutrients to the tropical rainforest?. <i>Biogeochemistry</i> , 2002, 60, 97-118.	1.7	70
93	Nitrogen uptake from <sup>15</sup> N-enriched fertilizer by four tree crops in an Amazonian agroforest. <i>Agroforestry Systems</i> , 2003, 57, 213-224.	0.9	13

#	ARTICLE	IF	CITATIONS
94	Root distribution of a Mediterranean shrubland in Portugal. <i>Plant and Soil</i> , 2003, 255, 529-540.	1.8	47
95	Subsoil root activity in tree-based cropping systems. <i>Plant and Soil</i> , 2003, 255, 319-331.	1.8	91
96	Title is missing!. <i>Plant Ecology</i> , 2003, 165, 85-100.	0.7	120
97	Title is missing!. <i>Plant Ecology</i> , 2003, 165, 117-144.	0.7	65
98	Water resource partitioning, stem xylem hydraulic properties, and plant water use strategies in a seasonally dry riparian tropical rainforest. <i>Oecologia</i> , 2003, 137, 321-329.	0.9	102
99	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
100	Estimation of root water uptake parameters by inverse modeling with soil water content data. <i>Water Resources Research</i> , 2003, 39, .	1.7	58
101	Root distribution of Mediterranean woody plants. Introducing a new empirical model. <i>Plant Biosystems</i> , 2003, 137, 63-72.	0.8	16
102	Catchment Management under Environmental Change: Impact of Land Cover Change on Water Resources. <i>Water International</i> , 2003, 28, 334-340.	0.4	75
103	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
104	A Global Database of Land Surface Parameters at 1-km Resolution in Meteorological and Climate Models. <i>Journal of Climate</i> , 2003, 16, 1261-1282.	1.2	579
105	Root Ecology. <i>Ecological Studies</i> , 2003, , .	0.4	57
106	Constraints on the Form and Function of Root Systems. <i>Ecological Studies</i> , 2003, , 1-31.	0.4	51
107	Fruit tree model for uptake of organic compounds from soil. <i>SAR and QSAR in Environmental Research</i> , 2003, 14, 17-26.	1.0	50
108	How does ecosystem water balance affect net primary productivity of woody ecosystems?. <i>Functional Plant Biology</i> , 2003, 30, 187.	1.1	69
109	A Global Database of Land Surface Parameters at 1-km Resolution in Meteorological and Climate Models. <i>Journal of Climate</i> , 2003, 16, 1261-1282.	1.2	431
110	Root Development and Rooting at Depths. , 0, , 233-262.		20
111	Hydrologic processes in deep vadose zones in interdrainage arid environments. <i>Water Science and Application</i> , 2004, , 15-28.	0.3	10

#	ARTICLE	IF	CITATIONS
112	Influence of herbaceous competitors on early growth in direct seeded <i>Fagus sylvatica</i> L. and <i>Quercus robur</i> L.. <i>Annals of Forest Science</i> , 2004, 61, 781-788.	0.8	41
113	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
114	Chapter 3 Vegetation, organic matter and soil quality. <i>Developments in Soil Science</i> , 2004, , 41-98.	0.5	5
115	Issues and prospects of belowground ecology with special reference to global climate change. <i>Science Bulletin</i> , 2004, 49, 1891.	1.7	2
116	Groundwater use and salinization with grassland afforestation. <i>Global Change Biology</i> , 2004, 10, 1299-1312.	4.2	188
117	Amazon drought and its implications for forest flammability and tree growth: a basin-wide analysis. <i>Global Change Biology</i> , 2004, 10, 704-717.	4.2	345
118	Variation in xylem structure and function in stems and roots of trees to 20Âm depth. <i>New Phytologist</i> , 2004, 163, 507-517.	3.5	243
119	Relationships between plant traits and climate in the Mediterranean region: A pollen data analysis. <i>Journal of Vegetation Science</i> , 2004, 15, 635-646.	1.1	80
120	Tree species, root decomposition and subsurface denitrification potential in riparian wetlands. <i>Plant and Soil</i> , 2004, 263, 335-344.	1.8	21
121	Nutrient uptake as a contributing explanation for deep rooting in arid and semi-arid ecosystems. <i>Oecologia</i> , 2004, 141, 620-628.	0.9	145
122	Issues and prospects of belowground ecology with special reference to global climate change. <i>Science Bulletin</i> , 2004, 49, 1891-1899.	1.7	33
123	Root growth and soil water utilization of winter wheat in the North China Plain. <i>Hydrological Processes</i> , 2004, 18, 2275-2287.	1.1	157
124	Implementation of depth-dependent soil concentrations in multimedia mass balance models. <i>SAR and QSAR in Environmental Research</i> , 2004, 15, 457-468.	1.0	10
125	Impact of observed vegetation root distribution on seasonal global simulations of land surface processes. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	4
126	Impact of rooting depth and soil hydraulic properties on the transpiration peak of an evergreen forest in northern Thailand in the late dry season. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	41
127	Vegetation, Water, Humans and the Climate. <i>Global Change - the IGBP Series</i> , 2004, , .	2.1	94
128	Progress in Botany. <i>Progress in Botany Fortschritte Der Botanik</i> , 2004, , .	0.1	2
129	Vertical distribution of fine root biomass of emergent <i>Nothofagus dombeyi</i> and its canopy associates in a Chilean temperate rainforest. <i>Forest Ecology and Management</i> , 2004, 199, 177-181.	1.4	15



#	ARTICLE	IF	CITATIONS
130	Effects of a chaparral-to-grass conversion on soil physical and hydrologic properties after four decades. <i>Geoderma</i> , 2004, 123, 99-114.	2.3	26
131	Simulating temporal and spatial variation of evapotranspiration over the Lushi basin. <i>Journal of Hydrology</i> , 2004, 285, 125-142.	2.3	127
132	Identifying areas of basin-floor recharge in the Trans-Pecos region and the link to vegetation. <i>Journal of Hydrology</i> , 2004, 292, 59-74.	2.3	27
133	Constraints on transpiration from an evergreen oak tree in southern Portugal. <i>Agricultural and Forest Meteorology</i> , 2004, 122, 193-205.	1.9	143
134	Global Datasets of Rooting Zone Depth Inferred from Inverse Methods. <i>Journal of Climate</i> , 2004, 17, 2714-2722.	1.2	49
135	Effects of environmental change on groundwater recharge in the desert southwest. <i>Water Science and Application</i> , 2004, , 273-294.	0.3	9
136	Root Growth and Nitrate Uptake of Three Different Catch Crops in Deep Soil Layers. <i>Soil Science Society of America Journal</i> , 2004, 68, 529-537.	1.2	160
137	Large-scale hydrological impacts of tropical forest conversion. , 2005, , 590-597.		28
138	Land-use change and water losses: the case of grassland afforestation across a soil textural gradient in central Argentina. <i>Global Change Biology</i> , 2005, 11, 1101-1117.	4.2	186
139	Deep root function in soil water dynamics in cerrado savannas of central Brazil. <i>Functional Ecology</i> , 2005, 19, 574-581.	1.7	246
140	New model to predict rooting in diverse plant community compositions. <i>Ecological Modelling</i> , 2005, 185, 195-211.	1.2	42
141	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
142	Long range lateral root activity by neo-tropical savanna trees. <i>Plant and Soil</i> , 2005, 270, 169-178.	1.8	26
143	Fractal geometry and root system structures of heterogeneous plant communities. <i>Plant and Soil</i> , 2005, 272, 61-76.	1.8	40
144	Fine Root Distribution in Dehesas of Central-Western Spain. <i>Plant and Soil</i> , 2005, 277, 153-162.	1.8	149
145	Changes in soil C-isotopic composition in an agroecosystem under Free Air Carbon dioxide Enrichment (FACE) treatment during a crop rotation period. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 1373-1380.	0.7	8
146	Roots and Soil Management: Interactions between Roots and the Soil. <i>Agronomy</i> , 2005, , .	0.2	22
147	Ecohydrology Monitoring and Excavation of Semiarid Landfill Covers a Decade after Installation. <i>Vadose Zone Journal</i> , 2005, 4, 798-810.	1.3	19

#	ARTICLE	IF	CITATIONS
148	Forest disturbance, conversion and recovery. , 2005, , 485-488.		0
149	Vertical Vegetation Structure Below Ground: Scaling from Root to Globe. , 2005, , 341-373.		46
150	Topsoil foraging and phosphorus acquisition efficiency in maize ( <i>Zea mays</i> ). <i>Functional Plant Biology</i> , 2005, 32, 749.	1.1	191
151	Root System Architecture of <i>Quercus pubescens</i> Trees Growing on Different Sloping Conditions. <i>Annals of Botany</i> , 2005, 95, 351-361.	1.4	128
153	Responses of deciduous forest trees to severe drought in Central Europe. <i>Tree Physiology</i> , 2005, 25, 641-650.	1.4	269
154	ECOHYDROLOGICAL CONTROL OF DEEP DRAINAGE IN ARID AND SEMIARID REGIONS. <i>Ecology</i> , 2005, 86, 277-287.	1.5	159
155	Investigation of Hydrological Variability in West Africa Using Land Surface Models. <i>Journal of Climate</i> , 2005, 18, 3173-3188.	1.2	49
156	An Introduction to the Functional Diversity of Temperate Forest Trees. , 2005, , 13-37.		30
157	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
158	Modelling Below- and Above-ground Biomass for Non-woody and Woody Plants. <i>Annals of Botany</i> , 2005, 95, 315-321.	1.4	123
160	Integration of various data sources for transient groundwater modeling with spatio-temporally variable fluxesâ€”Sardon study case, Spain. <i>Journal of Hydrology</i> , 2005, 306, 71-96.	2.3	101
161	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
162	Comparative ecophysiology of <i>Tamarix ramosissima</i> and native trees in western U.S. riparian zones. <i>Journal of Arid Environments</i> , 2005, 61, 419-446.	1.2	195
163	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
164	Mapping the global distribution of deep roots in relation to climate and soil characteristics. <i>Geoderma</i> , 2005, 126, 129-140.	2.3	287
165	Modeling the impact of the spatial structure of a hedge network on the hydrology of a small catchment in a temperate climate. <i>Agricultural Water Management</i> , 2005, 74, 135-163.	2.4	41
166	Climatic controls on diffuse groundwater recharge in semiarid environments of the southwestern United States. <i>Water Resources Research</i> , 2005, 41, .	1.7	72
167	Assessing controls on diffuse groundwater recharge using unsaturated flow modeling. <i>Water Resources Research</i> , 2005, 41, .	1.7	118

#	ARTICLE	IF	CITATIONS
168	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
169	Modern and Future Semi-Arid and Arid Ecosystems. , 2005, , 415-440.		6
170	ECOHYDROLOGICAL IMPLICATIONS OF WOODY PLANT ENCROACHMENT. <i>Ecology</i> , 2005, 86, 308-319.	1.5	582
171	Feedbacks and the coevolution of plants and atmospheric CO <sub>2</sub> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 1302-1305.	3.3	187
172	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
173	Ecohydrological controls on soil moisture fluxes in arid to semiarid vadose zones. <i>Water Resources Research</i> , 2006, 42, .	1.7	44
174	Savanna trees in Namibiaâ€”Factors controlling their distribution at the arid end of the spectrum. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2006, 201, 189-201.	0.6	39
175	Deep infiltration through a sandy alluvial fan in semiarid Niger inferred from electrical conductivity survey, vadose zone chemistry and hydrological modelling. <i>Catena</i> , 2006, 67, 105-118.	2.2	52
176	Growth and water and nitrate uptake patterns of grazed and ungrazed desert shrubs growing over a nitrate contamination plume. <i>Journal of Arid Environments</i> , 2006, 64, 1-21.	1.2	18
177	Spatial distribution of roots and nodules, and <sup>15</sup> N evidence of nitrogen fixation in <i>Adesmia volckmanni</i> , a Patagonian leguminous shrub. <i>Journal of Arid Environments</i> , 2006, 67, 328-335.	1.2	19
178	Groundwater dynamics in a coastal aquifer in north-central Chile: Implications for groundwater recharge in an arid ecosystem. <i>Journal of Arid Environments</i> , 2006, 67, 240-254.	1.2	65
179	Biological control of the terrestrial carbon sink. <i>Biogeosciences</i> , 2006, 3, 147-166.	1.3	169
180	Estimating extractable soil moisture content for Australian soils from field measurements. <i>Soil Research</i> , 2006, 44, 531.	0.6	7
182	Pedogenesisâ€”Terrain Links in Zeroâ€”Order Watersheds after Chaparral to Grass Vegetation Conversion. <i>Soil Science Society of America Journal</i> , 2006, 70, 2065-2074.	1.2	3
183	Soil water dynamics after fire in a Portuguese shrubland. <i>International Journal of Wildland Fire</i> , 2006, 15, 99.	1.0	34
184	Development and Growth of Root Systems. , 0, , 45-79.		5
185	Roots, rhizosphere and soil: the route to a better understanding of soil science?. <i>European Journal of Soil Science</i> , 2006, 57, 2-12.	1.8	372
186	The effects of elevated atmospheric CO <sub>2</sub> on the amount and depth distribution of plant water uptake in a California annual grassland. <i>Global Change Biology</i> , 2006, 12, 578-587.	4.2	10

#	ARTICLE	IF	CITATIONS
187	Endemic species and ecosystem sensitivity to climate change in Namibia. <i>Global Change Biology</i> , 2006, 12, 759-776.	4.2	108
188	Roots of pioneer trees in the lower sub-tropical area of Dinghushan, Guangdong, China. <i>Journal of Zhejiang University: Science B</i> , 2006, 7, 377-385.	1.3	4
189	Unusual Fine Root Distributions of Two Deciduous Tree Species in Southern France: What Consequences for Modelling of Tree Root Dynamics?. <i>Plant and Soil</i> , 2006, 281, 71-85.	1.8	117
190	Depth of water acquisition by invading shrubs and resident herbs in a Sierra Nevada meadow. <i>Plant and Soil</i> , 2006, 285, 31-43.	1.8	56
191	Hydraulic Lift in Cork Oak Trees in a Savannah-Type Mediterranean Ecosystem and its Contribution to the Local Water Balance. <i>Plant and Soil</i> , 2006, 282, 361-378.	1.8	123
192	Soil water depletion by <i>Eucalyptus</i> spp. integrated into dryland agricultural systems. <i>Plant and Soil</i> , 2006, 286, 141-151.	1.8	119
193	Improving the Traditional Acacia Senegal-Crop System in Sudan: The Effect of Tree Density on Water Use, Gum Production and Crop Yields. <i>Agroforestry Systems</i> , 2006, 66, 1-11.	0.9	27
194	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
195	Seasonal dynamics of fine root biomass, root length density, specific root length, and soil resource availability in a <i>Larix gmelinii</i> plantation. <i>Frontiers of Biology in China: Selected Publications From Chinese Universities</i> , 2006, 1, 310-317.	0.2	14
196	Influence of soil texture on hydraulic properties and water relations of a dominant warm-desert phreatophyte. <i>Tree Physiology</i> , 2006, 26, 313-323.	1.4	70
197	Effect of Root System Morphology on Root-sprouting and Shoot-rooting Abilities in 123 Plant Species from Eroded Lands in North-east Spain. <i>Annals of Botany</i> , 2006, 98, 439-447.	1.4	62
199	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
200	Variation in soil moisture in relation to rainfall, vegetation, gaps, and time-since-fire in Florida scrub. <i>Ecoscience</i> , 2007, 14, 377.	0.6	31
201	Enhancements of a Bank-Stability and Toe-Erosion Model and the Addition of Improved Mechanical Root-Reinforcement Algorithms. , 2007, , 1.		3
202	Analytical Advection-Dispersion Model for Transport and Plant Uptake of Contaminants in the Root Zone. <i>Vadose Zone Journal</i> , 2007, 6, 890-898.	1.3	9
203	Use of vegetation and soil in mineral exploration in areas of transported overburden, Yilgarn Craton, Western Australia: a contribution towards understanding metal transportation processes. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2007, 7, 267-288.	0.5	48
204	Water-use strategies in two co-occurring Mediterranean evergreen oaks: surviving the summer drought. <i>Tree Physiology</i> , 2007, 27, 793-803.	1.4	282
205	Modification of root architecture in woody plants is possible for the presence of two different mechanisms of lateral root production: The effect of slope in <i>Spartium junceum</i> L. seedlings. <i>Plant Biosystems</i> , 2007, 141, 502-511.	0.8	13

#	ARTICLE	IF	CITATIONS
206	Preliminary results of modeled ozone uptake for <i>Fagus sylvatica</i> L. trees at selected EU/UN-ECE intensive monitoring plots. <i>Environmental Pollution</i> , 2007, 145, 636-643.	3.7	22
207	Effect of land-use on soil water dynamic in dehesas of Central/Western Spain. <i>Catena</i> , 2007, 71, 298-308.	2.2	59
208	Impact of soil drought on sap flow and water status of evergreen trees in a tropical monsoon forest in northern Thailand. <i>Forest Ecology and Management</i> , 2007, 238, 220-230.	1.4	109
209	Soils at the hyperarid margin: The isotopic composition of soil carbonate from the Atacama Desert, Northern Chile. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3772-3795.	1.6	126
211	Towards developmental modelling of tree root systems. <i>Plant Biosystems</i> , 2007, 141, 481-501.	0.8	75
212	Plant rooting strategies in water-limited ecosystems. <i>Water Resources Research</i> , 2007, 43, .	1.7	98
213	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
214	Simulation of the Hydrologic Effects of Afforestation in the Tacuarembó River Basin, Uruguay. <i>Transactions of the ASABE</i> , 2007, 50, 455-468.	1.1	32
215	Net ecosystem carbon exchange in three contrasting Mediterranean ecosystems – the effect of drought. <i>Biogeosciences</i> , 2007, 4, 791-802.	1.3	210
217	Root anchorage of <i>Vitex negundo</i> L. on rocky slopes under different weathering degrees. <i>Ecological Engineering</i> , 2007, 30, 27-33.	1.6	21
218	Longevity and growth of <i>Acacia tortilis</i> ; insights from 14C content and anatomy of wood. <i>BMC Ecology</i> , 2007, 7, 4.	3.0	22
219	Constraining rooting depths in tropical rainforests using satellite data and ecosystem modeling for accurate simulation of gross primary production seasonality. <i>Global Change Biology</i> , 2007, 13, 67-77.	4.2	71
220	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
221	Photosynthetic limitations in response to water stress and recovery in Mediterranean plants with different growth forms. <i>New Phytologist</i> , 2007, 175, 81-93.	3.5	462
222	Effect of single <i>Quercus ilex</i> trees upon spatial and seasonal changes in soil water content in dehesas of central western Spain. <i>Annals of Forest Science</i> , 2007, 64, 355-364.	0.8	76
223	A systematic and quantitative approach to improve water use efficiency in agriculture. <i>Irrigation Science</i> , 2007, 25, 209-231.	1.3	248
224	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
225	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

#	ARTICLE	IF	CITATIONS
226	Water source partitioning among trees growing on shallow karst soils in a seasonally dry tropical climate. <i>Oecologia</i> , 2007, 152, 26-36.	0.9	166
227	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
228	Linking water uptake with rooting patterns in grassland species. <i>Oecologia</i> , 2007, 153, 261-272.	0.9	184
229	Fine root vertical distribution and temporal dynamics in mature stands of two enset ( <i>Enset</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj 5	1.8	28
230	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
231	Root traits and taxonomic affiliation of nine herbaceous species grown in glasshouse conditions. <i>Plant and Soil</i> , 2008, 312, 69-83.	1.8	45
232	Plant hydraulic lift of soil water " implications for crop production and land restoration. <i>Plant and Soil</i> , 2008, 313, 1-17.	1.8	83
233	Grass, rainfall and herbivores as determinants of <i>AcaciaÂerioloba</i> (Meyer) recruitment in an African savanna. <i>Plant Ecology</i> , 2008, 197, 131-138.	0.7	42
234	Groundwater Recharge Assessment for the Kalahari Catchment of North-eastern Namibia and North-western Botswana with a Regional-scale Water Balance Model. <i>Water Resources Management</i> , 2008, 22, 1143-1158.	1.9	21
235	Isolated Spring Wetlands in the Great Basin and Mojave Deserts, USA: Potential Response of Vegetation to Groundwater Withdrawal. <i>Environmental Management</i> , 2008, 41, 398-413.	1.2	80
236	Estimation of fine root production, mortality and turnover with Minirhizotron in <i>Larix gmelinii</i> and <i>Fraxinus mandshurica</i> plantations. <i>Frontiers of Biology in China: Selected Publications From Chinese Universities</i> , 2008, 3, 496-506.	0.2	7
237	Groundwater discharge mechanism in semiâ€arid regions and the role of evapotranspiration. <i>Hydrological Processes</i> , 2008, 22, 2993-3009.	1.1	22
238	Modelling the nonâ€linear hydrological behaviour of a small Mediterranean forested catchment. <i>Hydrological Processes</i> , 2008, 22, 3814-3828.	1.1	35
239	Local hydrologic effects of introducing nonâ€native vegetation in a tropical catchment. <i>Ecohydrology</i> , 2008, 1, 13-22.	1.1	69
240	Influence of slope on root system anchorage of <i>Pinus yunnanensis</i> . <i>Ecological Engineering</i> , 2008, 32, 60-67.	1.6	47
241	Can placement of seed away from relic stubble limit <i>Rhizoctonia</i> root rot in direct-seeded wheat?. <i>Soil and Tillage Research</i> , 2008, 101, 37-43.	2.6	10
242	Water Sources of Dominant Species in Three Alpine Ecosystems on the Tibetan Plateau, China. <i>Journal of Integrative Plant Biology</i> , 2008, 50, 257-264.	4.1	24
243	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

#	ARTICLE	IF	CITATIONS
244	Ecological and evolutionary consequences of niche construction for its agent. <i>Ecology Letters</i> , 2008, 11, 1072-1081.	3.0	110
245	Modeling mechanisms of vegetation change due to fire in a semi-arid ecosystem. <i>Ecological Modelling</i> , 2008, 214, 181-200.	1.2	16
246	Simulating the multi-seasonal response of a large-scale watershed with a 3D physically-based hydrologic model. <i>Journal of Hydrology</i> , 2008, 357, 317-336.	2.3	123
247	<i>Plant Physiological Ecology</i> , 2008, , .		1,265
248	<i>Plant Water Relations</i> , 2008, , 163-223.		69
249	Reconstructed historical land cover and biophysical parameters for studies of land-atmosphere interactions within the eastern United States. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	72
250	Regional patterns and controls of ecosystem salinization with grassland afforestation along a rainfall gradient. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	1.9	58
251	Climatically driven loss of calcium in steppe soil as a sink for atmospheric carbon. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	1.9	22
252	Transient soil-moisture dynamics and climate change in Mediterranean ecosystems. <i>Water Resources Research</i> , 2008, 44, .	1.7	65
253	The influence of climate on root depth: A carbon cost-benefit analysis. <i>Water Resources Research</i> , 2008, 44, .	1.7	114
254	<i>Progress in Botany</i> . <i>Progress in Botany Fortschritte Der Botanik</i> , 2008, , .	0.1	2
255	Spinifex biogeochemical expressions of buried gold mineralisation: The great mineral exploration penetrator of transported regolith. <i>Applied Geochemistry</i> , 2008, 23, 76-84.	1.4	41
256	Multiple site tower flux and remote sensing comparisons of tropical forest dynamics in Monsoon Asia. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 748-760.	1.9	88
257	Water table is a relevant source for water uptake by a Scots pine ( <i>Pinus sylvestris</i> L.) stand: Evidences from continuous evapotranspiration and water table monitoring. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 1419-1432.	1.9	67
258	Effects of a deep container on morpho-functional characteristics and root colonization in <i>Quercus suber</i> L. seedlings for reforestation in Mediterranean climate. <i>Forest Ecology and Management</i> , 2008, 256, 779-785.	1.4	94
259	Seasonal change in thick regolith hardness and water content in a dry evergreen forest in Kampong Thom Province, Cambodia. <i>Geoderma</i> , 2008, 146, 94-101.	2.3	14
260	Fine root growth and mortality in different-aged ponderosa pine stands. <i>Canadian Journal of Forest Research</i> , 2008, 38, 1797-1806.	0.8	19
261	The effect of spacing on the growth of <i>Eucalyptus camaldulensis</i> on salt-affected soils of the Punjab, Pakistan. <i>Canadian Journal of Forest Research</i> , 2008, 38, 2434-2444.	0.8	11

#	ARTICLE	IF	CITATIONS
262	Growth form and seasonal variation in leaf gas exchange of <i>Colophospermum mopane</i> savanna trees in northwest Botswana. <i>Tree Physiology</i> , 2008, 28, 417-424.	1.4	23
263	Enhanced Application of Root-Reinforcement Algorithms for Bank-Stability Modeling. , 2008, , .		0
264	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
265	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
266	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
267	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
268	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
269	A model for hydraulic redistribution incorporating coupled soil-root moisture transport. <i>Hydrology and Earth System Sciences</i> , 2008, 12, 55-74.	1.9	141
270	Analysis of soil and vegetation patterns in semi-arid Mediterranean landscapes by way of a conceptual water balance model. <i>Hydrology and Earth System Sciences</i> , 2008, 12, 899-911.	1.9	9
271	Uncertainty in parameterisation and model structure affect simulation results in coupled ecohydrological models. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 1789-1807.	1.9	24
272	Plant morphometric traits and climate gradients in northern China: a meta-analysis using quadrat and flora data. <i>Annals of Botany</i> , 2009, 104, 1217-1229.	1.4	26
273	Formation of trace element biogeochemical anomalies in surface soils: the role of biota. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2009, 9, 353-367.	0.5	6
274	Identifying watershed-scale barriers to groundwater flow: Lineaments in the Canadian Shield. <i>Bulletin of the Geological Society of America</i> , 2009, 121, 333-347.	1.6	37
275	An approach for predicting groundwater recharge in mountainous watersheds. <i>Journal of Hydrology</i> , 2009, 365, 156-172.	2.3	45
276	Evapotranspiration from a Mediterranean evergreen oak savannah: The role of trees and pasture. <i>Journal of Hydrology</i> , 2009, 369, 98-106.	2.3	85
277	Large scale surface-â€ˆsubsurface hydrological model to assess climate change impacts on groundwater reserves. <i>Journal of Hydrology</i> , 2009, 373, 122-138.	2.3	229
278	Sensitivity of drainage to rainfall, vegetation and soil characteristics. <i>Computers and Electronics in Agriculture</i> , 2009, 68, 1-8.	3.7	25
279	Water budget and the consequent duration of canopy carbon gain in a teak plantation in a dry tropical region: Analysis using a soil-â€ˆplant-â€ˆair continuum multilayer model. <i>Ecological Modelling</i> , 2009, 220, 1534-1543.	1.2	11



#	ARTICLE	IF	CITATIONS
280	Enhanced application of root reinforcement algorithms for bank stability modeling. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 471-480.	1.2	103
281	Modeling the Sensitivity of the Seasonal Cycle of GPP to Dynamic LAI and Soil Depths in Tropical Rainforests. <i>Ecosystems</i> , 2009, 12, 517-533.	1.6	51
282	Responses of CO <sub>2</sub> Exchange and Primary Production of the Ecosystem Components to Environmental Changes in a Mountain Peatland. <i>Ecosystems</i> , 2009, 12, 590-603.	1.6	45
283	The hydrogeological role of trees in water-limited environments. <i>Hydrogeology Journal</i> , 2009, 17, 247-259.	0.9	86
284	A modelling study of the effects of land management and climatic variations on groundwater inflow to Lake St Lucia, South Africa. <i>Hydrogeology Journal</i> , 2009, 17, 1949-1967.	0.9	20
285	Soil water availability and rooting depth as determinants of hydraulic architecture of Patagonian woody species. <i>Oecologia</i> , 2009, 160, 631-641.	0.9	94
286	Estimation of the spatial variability of root water uptake of maize and sorghum at the field scale by electrical resistivity tomography. <i>Plant and Soil</i> , 2009, 319, 185-207.	1.8	111
287	An analytic solution for groundwater uptake by phreatophytes spanning spatial scales from plant to field to regional. <i>Journal of Engineering Mathematics</i> , 2009, 64, 85-103.	0.6	15
288	Groundwater modeling in semiarid Central Sudan: adequacy and long-term abstraction. <i>Arabian Journal of Geosciences</i> , 2009, 2, 321-335.	0.6	9
289	An empirical statistical model for predicting the yield of herbage from legume-grass swards within organic crop rotations based on cumulative water balances. <i>Grass and Forage Science</i> , 2009, 64, 144-159.	1.2	9
290	Seedling root morphology and biomass allocation of 62 tropical tree species in relation to drought and shade tolerance. <i>Journal of Ecology</i> , 2009, 97, 311-325.	1.9	372
291	<i>Protogálgá</i> <i>Ziziphus mucronata</i> (Rhamnaceae) show no negative effects of competition with the nurse tree <i>Acacia</i> (Leguminaceae), even as adults. <i>Journal of Vegetation Science</i> , 2009, 20, 926-934.	1.1	5
292	Patterned vegetation and rainfall intermittency. <i>Journal of Theoretical Biology</i> , 2009, 256, 574-583.	0.8	69
293	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
294	Seasonal and inter-annual variations of gas exchange in thirteen woody species along a climatic gradient in the Mediterranean island of Mallorca. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2009, 204, 169-181.	0.6	37
295	Cadmium availability in soil and retention in oak roots: Potential for phytostabilization. <i>Chemosphere</i> , 2009, 76, 480-486.	4.2	76
296	Examining the physical meaning of the bank erosion coefficient used in meander migration modeling. <i>Geomorphology</i> , 2009, 106, 242-252.	1.1	101
297	Refinement of rooting depths using satellite-based evapotranspiration seasonality for ecosystem modeling in California. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 1907-1918.	1.9	53

#	ARTICLE	IF	CITATIONS
298	Land clearing, climate variability, and water resources increase in semiarid southwest Niger: A review. <i>Water Resources Research</i> , 2009, 45, .	1.7	200
299	Ecosystem processes at the watershed scale: Extending optimality theory from plot to catchment. <i>Water Resources Research</i> , 2009, 45, .	1.7	78
300	Stochastic soil water dynamics of phreatophyte vegetation with dimorphic root systems. <i>Water Resources Research</i> , 2009, 45, .	1.7	19
301	Role and Sources of Exudate Gums. , 2009, , .		0
302	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
303	Water table response to an experimental alley farming trial: dissecting the spatial and temporal structure of the data. <i>Ecological Applications</i> , 2010, 20, 1704-1720.	1.8	5
304	Strategies for understanding lightning myths and beliefs. , 2010, , .		6
305	Cropmarks in stands of cereals, legumes and winter rape indicate sub-soil archaeological features in the agricultural landscape of Central Europe. <i>Agriculture, Ecosystems and Environment</i> , 2010, 138, 348-354.	2.5	21
306	Root System Development of Larch Trees Growing on Siberian Permafrost. <i>Ecological Studies</i> , 2010, , 303-330.	0.4	14
307	Comparing approaches for modeling spatially distributed direct recharge in a semi-arid region (Okanagan Basin, Canada). <i>Hydrogeology Journal</i> , 2010, 18, 339-357.	0.9	16
308	Water relations of evergreen and drought-deciduous trees along a seasonally dry tropical forest chronosequence. <i>Oecologia</i> , 2010, 164, 881-890.	0.9	143
309	Carbon density and distribution of six Chinese temperate forests. <i>Science China Life Sciences</i> , 2010, 53, 831-840.	2.3	34
310	Buried treasure: soil biodiversity and conservation. <i>Biodiversity and Conservation</i> , 2010, 19, 3743-3756.	1.2	47
311	Effects of soil management practices and irrigation on plant water relations and productivity of chestnut stands under Mediterranean conditions. <i>Plant and Soil</i> , 2010, 327, 57-70.	1.8	22
312	Do nutrient-poor soils inhibit development of forests? A nutrient stock analysis. <i>Plant and Soil</i> , 2010, 334, 47-60.	1.8	110
313	Monitoring structural assets of bi-species groves according to land use types: a case study from arid plains. <i>Environmental Monitoring and Assessment</i> , 2010, 168, 121-131.	1.3	6
314	Water balance modelling in a tropical watershed under deciduous forest (Mule Hole, India): Regolith matric storage buffers the groundwater recharge process. <i>Journal of Hydrology</i> , 2010, 380, 460-472.	2.3	59
315	Investigating soil moistureâ€“climate interactions in a changing climate: A review. <i>Earth-Science Reviews</i> , 2010, 99, 125-161.	4.0	3,380

#	ARTICLE	IF	CITATIONS
316	Evolutionary ecology of mycorrhizal functional diversity in agricultural systems. <i>Evolutionary Applications</i> , 2010, 3, 547-560.	1.5	223
317	A stochastic model for vegetation water stress. <i>Ecohydrology</i> , 2010, 3, 177-188.	1.1	5
318	Planting density influence on fibrous root reinforcement of soils. <i>Ecological Engineering</i> , 2010, 36, 276-284.	1.6	156
319	Finessing the fuel: Revisiting the challenge of radioactive waste disposal. <i>Energy Policy</i> , 2010, 38, 709-714.	4.2	84
320	Accurate environmental bioindication in floodplains in spite of an extreme flood event. <i>River Research and Applications</i> , 2010, 26, 877-886.	0.7	6
321	Influence of Post-Clearing Treatment on the Recovery of Herbaceous Plant Communities in Amazonian Secondary Forests. <i>Restoration Ecology</i> , 2010, 18, 50-58.	1.4	41
322	Soil moisture depletion under simulated drought in the Amazon: impacts on deep root uptake. <i>New Phytologist</i> , 2010, 187, 592-607.	3.5	181
323	Life on the edge – to which degree does phreatic water sustain vegetation in the periphery of the Taklamakan Desert?. <i>Applied Vegetation Science</i> , 2010, 13, 56-71.	0.9	34
324	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
325	An Aquifer Classification System and Geographical Information System-Based Analysis Tool for Watershed Managers in the Western U.S. <i>Journal of the American Water Resources Association</i> , 2010, 46, 1003-1023.	1.0	8
326	Root Distribution of Temperate Forage Species Subjected to Water and Nitrogen Stress. <i>Crop Science</i> , 2010, 50, 2178-2185.	0.8	55
327	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
328	Soil Water Repellency: A Method of Soil Moisture Sequestration in Pinyon-Juniper Woodland. <i>Soil Science Society of America Journal</i> , 2010, 74, 624-634.	1.2	54
329	Can the dataset of field based recharge estimates in Australia be used to predict recharge in data-poor areas?. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 2023-2038.	1.9	67
330	Groundwater-dependent ecosystems and the dangers of groundwater overdraft: a review and an Australian perspective. <i>Pacific Conservation Biology</i> , 2010, 16, 187.	0.5	37
331	Potential groundwater contribution to Amazon evapotranspiration. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 2039-2056.	1.9	82
332	Simulated effects of a seasonal precipitation change on the vegetation in tropical Africa. <i>Climate of the Past</i> , 2010, 6, 169-178.	1.3	22
333	Permafrost Ecosystems. <i>Ecological Studies</i> , 2010, , .	0.4	43

#	ARTICLE	IF	CITATIONS
334	Evaluation of the impacts of defoliation by tropical cyclones on a Japanese forest's carbon budget using flux data and a process-based model. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	32
335	Ecohydrological feedbacks between salt accumulation and vegetation dynamics: Role of vegetation-groundwater interactions. <i>Water Resources Research</i> , 2010, 46, .	1.7	51
336	Effect of soil waterlogging on below-ground biomass allometric relations in Norway spruce. <i>Plant Biosystems</i> , 2010, 144, 448-457.	0.8	5
337	The effects of browsing on the structure of <i>Acacia tortilis</i> (Forssk.) Hayne ssp. <i>raddiana</i> (Savi) Brenan along a gradient of water availability in arid zones of Tunisia. <i>Journal of Arid Environments</i> , 2010, 74, 625-631.	1.2	27
338	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
339	Detection of soil moisture and vegetation water abstraction in a Mediterranean natural area using electrical resistivity tomography. <i>Catena</i> , 2010, 81, 209-216.	2.2	88
340	Rhizoliths in loess – evidence for post-sedimentary incorporation of root-derived organic matter in terrestrial sediments as assessed from molecular proxies. <i>Organic Geochemistry</i> , 2010, 41, 1198-1206.	0.9	60
341	Habitat productivity influences root mass vertical distribution in grazed Mediterranean ecosystems. <i>Acta Oecologica</i> , 2010, 36, 377-382.	0.5	10
342	Dry season water uptake by two dominant canopy tree species in a tropical seasonal rainforest of Xishuangbanna, SW China. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 380-388.	1.9	69
343	Carbon Sequestration in Forest Ecosystems. , 2010, , .		86
344	Tropical Rainforests and Agroforests under Global Change. <i>Environmental Science and Engineering</i> , 2010, , .	0.1	14
345	Calcitic nanofibres in soils and caves: a putative fungal contribution to carbonatogenesis. <i>Geological Society Special Publication</i> , 2010, 336, 225-238.	0.8	20
346	Seasonal changes of whole root system conductance by a drought-tolerant grape root system. <i>Journal of Experimental Botany</i> , 2011, 62, 99-109.	2.4	133
347	Is the simple auger coring method reliable for below-ground standing biomass estimation in Eucalyptus forest plantations?. <i>Annals of Botany</i> , 2011, 108, 221-230.	1.4	54
348	Methodology to detect long-term trends in groundwater by monitoring changes in vegetation distribution. <i>International Journal of Remote Sensing</i> , 2011, 32, 3329-3343.	1.3	3
349	Forest Management and the Water Cycle. <i>Ecological Studies</i> , 2011, , .	0.4	14
350	Root, shoot and leaf traits of the congeneric <i>Styrax</i> species may explain their distribution patterns in the cerrado sensu lato areas in Brazil. <i>Functional Plant Biology</i> , 2011, 38, 209.	1.1	24
351	The role of vegetation in the water cycle. <i>Ecohydrology and Hydrobiology</i> , 2011, 11, 175-181.	1.0	6

#	ARTICLE	IF	CITATIONS
353	The relative controls of temperature, soil moisture, and plant functional group on soil CO <sub>2</sub> efflux at diel, seasonal, and annual scales. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	94
354	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
355	Nitrogen effect on carbon-water coupling in forests, grasslands, and shrublands in the arid western United States. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	35
356	Vegetation controls on variably saturated processes between surface water and groundwater and their impact on the state of connection. <i>Water Resources Research</i> , 2011, 47, .	1.7	53
357	Water Dynamics at the Ecosystem Level in Seasonally Dry Tropical Forests. , 2011, , 141-156.		38
358	Water subsidies from mountains to deserts: their role in sustaining groundwater-fed oases in a sandy landscape. , 2011, 21, 678-694.		93
359	Water and Energy Balance. , 2011, , 93-122.		1
360	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
361	Shrub species affect distinctively the functioning of scattered <i>Quercus ilex</i> trees in Mediterranean open woodlands. <i>Forest Ecology and Management</i> , 2011, 261, 1750-1759.	1.4	36
362	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
363	Responses of woody species to spatial and temporal ground water changes in coastal sand dune systems. <i>Biogeosciences</i> , 2011, 8, 3823-3832.	1.3	33
364	Physiological drought tolerance and the structuring of tallgrass prairie assemblages. <i>Ecosphere</i> , 2011, 2, art48.	1.0	56
365	Water Budget on Various Land Use Areas Using NARR Reanalysis Data in Florida. <i>Advances in Meteorology</i> , 2011, 2011, 1-13.	0.6	1
366	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
367	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
368	Functional specialization of <i>Eucalyptus</i> 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
369	Conversion to soy on the Amazonian agricultural frontier increases streamflow without affecting stormflow dynamics. <i>Global Change Biology</i> , 2011, 17, 1821-1833.	4.2	89
370	Environmental filtering of dense-wooded species controls above-ground biomass stored in African moist forests. <i>Journal of Ecology</i> , 2011, 99, 981-990.	1.9	72

#	ARTICLE	IF	CITATIONS
371	Ecophysiological traits associated with the competitive ability of invasive Australian acacias. Diversity and Distributions, 2011, 17, 898-910.	1.9	88
372	Introducing short roots in a desert perennial: anatomy and spatiotemporal foraging responses to increased precipitation. New Phytologist, 2011, 191, 173-183.	3.5	21
373	Searching for travertines, calcretes and speleothems in deep time: Processes, appearances, predictions and the impact of plants. Earth-Science Reviews, 2011, 104, 213-239.	4.0	83
374	Effects of above- and below-ground competition from shrubs on photosynthesis, transpiration and growth in <i>Quercus robur</i> L. seedlings. Environmental and Experimental Botany, 2011, , .	2.0	6
375	Establishment of an in vitro micropropagation protocol for <i>Boscia senegalensis</i> (Pers.) Lam. ex Poir.. Journal of Zhejiang University: Science B, 2011, 12, 303-312.	1.3	8
376	The effects of deforestation and climate variability on the streamflow of the Araguaia River, Brazil. Biogeochemistry, 2011, 105, 119-131.	1.7	155
377	Ancient waste pits with wood ash irreversibly increase crop production in Central Europe. Plant and Soil, 2011, 339, 341-350.	1.8	25
378	Patterns of nitrate reductase activity vary according to the plant functional group in a Mediterranean maquis. Plant and Soil, 2011, 347, 363-376.	1.8	15
379	Seasonal variation in plant hydraulic traits of two co-occurring desert shrubs, <i>Tamarix ramosissima</i> and <i>Haloxylon ammodendron</i> , with different rooting patterns. Ecological Research, 2011, 26, 1071-1080.	0.7	36
380	Root traits explain different foraging strategies between resprouting life histories. Oecologia, 2011, 165, 321-331.	0.9	85
381	The variable effects of soil nitrogen availability and insect herbivory on aboveground and belowground plant biomass in an old-field ecosystem. Oecologia, 2011, 167, 771-780.	0.9	27
382	Modelling soil moisture under different land covers in a sub-humid environment of Western Ghats, India. Journal of Earth System Science, 2011, 120, 387-398.	0.6	10
383	Sugarcane Underground Organs: Going Deep for Sustainable Production. Tropical Plant Biology, 2011, 4, 22-30.	1.0	22
384	Forest productivity under climate change: a checklist for evaluating model studies. Wiley Interdisciplinary Reviews: Climate Change, 2011, 2, 332-355.	3.6	127
385	Direct measurement of groundwater uptake through tree roots in a cave. Ecohydrology, 2011, 4, 644-649.	1.1	19
386	Biotic, temporal and spatial variability of tritium concentrations in transpirate samples collected in the vicinity of a near-surface low-level nuclear waste disposal site and nearby research reactor. Journal of Environmental Radioactivity, 2011, 102, 551-558.	0.9	10
387	Root distribution and herbage production under different management regimes of mountain grassland. Soil and Tillage Research, 2011, 113, 99-104.	2.6	34
388	Precipitation increases the abundance of some groups of root-associated fungal endophytes in a semiarid grassland. Ecosphere, 2011, 2, art50.	1.0	34

#	ARTICLE	IF	CITATIONS
389	Changes in hydrology and salinity accompanying a century of agricultural conversion in Argentina. , 2011, 21, 2367-2379.		47
390	Substance of green waste compost adding bamboo vinegar as growth stimulator for <i>Calathca rotundifolia</i> cv. <i>Fasciata</i> . , 2011, , .		0
391	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
392	Evapotranspiration and soil water relationships in a range of disturbed and undisturbed ecosystems in the semi-arid Inner Mongolia, China. <i>Journal of Plant Ecology</i> , 2011, 4, 49-60.	1.2	76
393	Induction of root-resistance by leaf-herbivory follows a vertical gradient. <i>Journal of Plant Interactions</i> , 2011, 6, 133-136.	1.0	11
394	Allometric patterns of below-ground biomass in Mediterranean grasslands. <i>Plant Biosystems</i> , 2011, 145, 584-595.	0.8	9
395	Influence of rocky slope gradient on root anchorage of <i>Vitex negundo</i> L.. <i>Plant Biosystems</i> , 2011, 145, 532-539.	0.8	7
396	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
397	A modelling analysis to identify plant traits for enhanced water-use efficiency of pasture. <i>Crop and Pasture Science</i> , 2012, 63, 63.	0.7	29
398	Ecosystem Services in an Impacted Watershed. <i>Handbook of Environmental Chemistry</i> , 2012, , 347-368.	0.2	2
399	Test of Tree Core Sampling for Screening of Toxic Elements in Soils from a Norwegian Site. <i>International Journal of Phytoremediation</i> , 2012, 14, 305-319.	1.7	17
400	Carbon Sequestration in Urban Ecosystems. , 2012, , .		41
401	A demographic approach to study effects of climate change in desert plants. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 3100-3114.	1.8	104
402	Exploring rock fissures: does a specialized root morphology explain endemism on granite outcrops?. <i>Annals of Botany</i> , 2012, 110, 291-300.	1.4	60
403	Duality of terrestrial subterranean fauna. <i>International Journal of Speleology</i> , 2012, 41, 181-188.	0.4	44
404	An altered hydrotropic response ( <i>ahr1</i> ) mutant of <i>Arabidopsis</i> recovers root hydrotropism with cytokinin. <i>Journal of Experimental Botany</i> , 2012, 63, 3587-3601.	2.4	39
405	How have both cultivation and warming influenced annual global isoprene and monoterpene emissions since the preindustrial era?. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 9703-9718.	1.9	14
406	Microbial Transformations of Nitrogen, Sulfur, and Iron Dictate Vegetation Composition in Wetlands: A Review. <i>Frontiers in Microbiology</i> , 2012, 3, 156.	1.5	100

#	ARTICLE	IF	CITATIONS
407	Bioretention Design for Xeric Climates Based on Ecological Principles<sup>1</sup>. Journal of the American Water Resources Association, 2012, 48, 1178-1190.	1.0	28
409	Hydrologic response of a Hawaiian watershed to future climate change scenarios. Hydrological Processes, 2012, 26, 2745-2764.	1.1	57
410	Dynamics of phreatophyte root growth relative to a seasonally fluctuating water table in a Mediterranean-type environment. Oecologia, 2012, 170, 909-916.	0.9	42
411	Root mass distribution patterns under standardised conditions in species of Chionochloa and Festuca from New Zealand. Acta Ecologica Sinica, 2012, 32, 189-194.	0.9	2
412	Drought-induced embolism in current-year shoots of two Mediterranean evergreen oaks. Forest Ecology and Management, 2012, 285, 1-10.	1.4	35
413	Strontium isotopes and nutrient sourcing in a semi-arid woodland. Geoderma, 2012, 189-190, 574-584.	2.3	46
414	Sensitivity analysis of ecosystem service valuation in a Mediterranean watershed. Science of the Total Environment, 2012, 440, 140-153.	3.9	108
415	Assessing the ecosystem services supplied by freshwater flows in Mediterranean agroecosystems. Agricultural Water Management, 2012, 105, 21-31.	2.4	72
416	Fine root dynamics and longevity of Artemisia halodendron reflect plant growth strategy in two contrasting habitats. Journal of Arid Environments, 2012, 79, 1-7.	1.2	5
417	Costs, benefits and management options for an invasive alien tree species: The case of mesquite in the Northern Cape, South Africa. Journal of Arid Environments, 2012, 84, 80-90.	1.2	82
418	Cropmarks in main field crops enable the identification of a wide spectrum of buried features on archaeological sites in Central Europe. Journal of Archaeological Science, 2012, 39, 1655-1664.	1.2	44
419	Accounting for space and time in soil carbon dynamics in timbered rangelands. Ecological Engineering, 2012, 38, 51-64.	1.6	23
420	Determining the geographical origin of Chinese cabbages using multielement composition and strontium isotope ratio analyses. Food Chemistry, 2012, 135, 2666-2674.	4.2	57
421	Dendroecological indicators of historical responses of pines to water and nutrient availability on a superficial aquifer in south-western Australia. Forest Ecology and Management, 2012, 264, 108-114.	1.4	15
422	Drought Response in Forest Trees: From the Species to the Gene. , 2012, , 293-333.		23
423	Validation and comparison of two soil-vegetation-atmosphere transfer models for tropical Africa. Journal of Geophysical Research, 2012, 117, .	3.3	20
424	A review of global terrestrial evapotranspiration: Observation, modeling, climatology, and climatic variability. Reviews of Geophysics, 2012, 50, .	9.0	1,009
425	Monitoring and modeling water-vegetation interactions in groundwater-dependent ecosystems. Reviews of Geophysics, 2012, 50, .	9.0	168



#	ARTICLE	IF	CITATIONS
426	The role of groundwater in the Amazon water cycle: 2. Influence on seasonal soil moisture and evapotranspiration. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	71
427	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
428	Role of surface water and groundwater interactions on projected summertime streamflow in snow dominated regions: An integrated modeling approach. <i>Water Resources Research</i> , 2012, 48, .	1.7	143
429	Water balance at plot scale for soil moisture estimation using vegetation parameters. <i>Agricultural and Forest Meteorology</i> , 2012, 166-167, 1-9.	1.9	42
430	Species-specific water use by forest tree species: From the tree to the stand. <i>Agricultural Water Management</i> , 2012, 114, 67-77.	2.4	80
431	Effects of evapotranspiration on baseflow in a tropical headwater catchment. <i>Journal of Hydrology</i> , 2012, 462-463, 4-14.	2.3	22
432	Palaeozoic landscapes shaped by plant evolution. <i>Nature Geoscience</i> , 2012, 5, 99-105.	5.4	234
433	Influence of limited soil on the root distribution and anchorage of <i>Vitex negundo</i> L.. <i>Journal of Mountain Science</i> , 2012, 9, 723-730.	0.8	1
434	The Llobregat. <i>Handbook of Environmental Chemistry</i> , 2012, , .	0.2	6
435	Modeling the productivity of energy crops in different agro-ecological environments. <i>Biomass and Bioenergy</i> , 2012, 46, 618-633.	2.9	22
436	Evaluating Ecohydrological Theories of Woody Root Distribution in the Kalahari. <i>PLoS ONE</i> , 2012, 7, e33996.	1.1	32
437	Groundwater surface water interactions and the role of phreatophytes in identifying recharge zones. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 4133-4142.	1.9	17
438	A Global Analysis of Groundwater Recharge for Vegetation, Climate, and Soils. <i>Vadose Zone Journal</i> , 2012, 11, .	1.3	129
439	The oxygen isotopic composition of phytolith assemblages from tropical rainforest soil tops (Queensland, Australia): validation of a new paleoenvironmental tool. <i>Climate of the Past</i> , 2012, 8, 307-324.	1.3	29
440	Spatial and temporal dynamics of soil moisture in a Mediterranean mountain area (Vallcebre, NE) <i>Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50 18</i>	1.1	18
441	Effect of species, root branching order and season on the root traits of 13 perennial grass species. <i>Plant and Soil</i> , 2012, 353, 47-57.	1.8	64
442	The hydrologic consequences of land cover change in central Argentina. <i>Agriculture, Ecosystems and Environment</i> , 2012, 154, 2-11.	2.5	162
443	Water release through plant roots: new insights into its consequences at the plant and ecosystem level. <i>New Phytologist</i> , 2012, 193, 830-841.	3.5	296

#	ARTICLE	IF	CITATIONS
444	The Application of Ecohydrological Groundwater Indicators to Hydrogeological Conceptual Models. <i>Ground Water</i> , 2012, 50, 679-689.	0.7	12
445	Effects of catch crop type and root depth on nitrogen leaching and yield of spring barley. <i>Field Crops Research</i> , 2012, 125, 129-138.	2.3	75
446	Crop yield, root growth, and nutrient dynamics in a conventional and three organic cropping systems with different levels of external inputs and N re-cycling through fertility building crops. <i>European Journal of Agronomy</i> , 2012, 37, 66-82.	1.9	133
447	Intensified organic carbon dynamics in the ground water of a restored riparian zone. <i>Freshwater Biology</i> , 2012, 57, 1603-1616.	1.2	18
448	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
449	Simulation of flow processes in a large scale karst system with an integrated catchment model (Mike) Tj ETQq1 1 0.784314 rgBT /Over 426-427, 112-123.	2.3	75
450	Hydrologic effect of groundwater development in a small mountainous tropical watershed. <i>Journal of Hydrology</i> , 2012, 428-429, 51-67.	2.3	8
451	Geospatial and regression tree analysis to map groundwater depth for manual well drilling suitability in the Zinder region of Niger. <i>Journal of Hydrology</i> , 2012, 446-447, 35-47.	2.3	7
452	The effect of historical legacy on adaptation: do closely related species respond to the environment in the same way?. <i>Journal of Evolutionary Biology</i> , 2012, 25, 1636-1649.	0.8	36
453	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
454	Water sources of urban trees in the Los Angeles metropolitan area. <i>Urban Ecosystems</i> , 2012, 15, 195-214.	1.1	52
455	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
456	Stand- and tree-level determinants of the drought response of Scots pine radial growth. <i>Oecologia</i> , 2012, 168, 877-888.	0.9	136
457	Influence of aspect in soil and vegetation water dynamics in dry Mediterranean conditions: functional adjustment of evergreen and semi-deciduous growth forms. <i>Ecohydrology</i> , 2013, 6, 241-255.	1.1	22
458	Water regime and growth of young oak stands subjected to air-warming and drought on two different forest soils in a model ecosystem experiment. <i>Plant Biology</i> , 2013, 15, 138-147.	1.8	55
459	Impacts of climate change on savannah woodland biomass carbon density and water-use: a modelling study of the Sudanese gum belt region. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2013, 18, 979-999.	1.0	4
460	Net ecosystem CO <sub>2</sub> exchange and plant biomass responses to warming and N addition in a grass-dominated system during two years of net CO <sub>2</sub> efflux. <i>Plant and Soil</i> , 2013, 371, 409-421.	1.8	12
461	The hidden organic carbon in deep mineral soils. <i>Plant and Soil</i> , 2013, 368, 641-648.	1.8	110

#	ARTICLE	IF	CITATIONS
462	Community-aggregated plant traits interact with soil nutrient heterogeneity to determine ecosystem functioning. <i>Plant and Soil</i> , 2013, 364, 119-129.	1.8	27
463	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
464	The importance of limestone bedrock and dissolution karst features on tree root distribution in northern Yucatán, México. <i>Plant and Soil</i> , 2013, 362, 37-50.	1.8	83
465	Ecosystem services in Mediterranean river basin: Climate change impact on water provisioning and erosion control. <i>Science of the Total Environment</i> , 2013, 458-460, 246-255.	3.9	180
466	Land-use and topography shape soil and groundwater salinity in central Argentina. <i>Agricultural Water Management</i> , 2013, 129, 120-129.	2.4	54
467	Modeling the interaction between fields and a surrounding hedgerow network and its impact on water and nitrogen flows of a small watershed. <i>Agricultural Water Management</i> , 2013, 121, 62-72.	2.4	19
468	Biological constraints on water transport in the soil-plant-atmosphere system. <i>Advances in Water Resources</i> , 2013, 51, 292-304.	1.7	110
469	N-driven changes in a plant community affect leaf-litter traits and may delay organic matter decomposition in a Mediterranean maquis. <i>Soil Biology and Biochemistry</i> , 2013, 58, 163-171.	4.2	30
470	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
471	The impact of climate change on water provision under a low flow regime: A case study of the ecosystems services in the Francoli river basin. <i>Journal of Hazardous Materials</i> , 2013, 263, 224-232.	6.5	74
472	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
473	Root functioning, tree water use and hydraulic redistribution in <i>Quercus suber</i> trees: A modeling approach based on root sap flow. <i>Forest Ecology and Management</i> , 2013, 307, 136-146.	1.4	133
474	Anthropogenic effects on population structure of <i>Acacia tortilis</i> subsp. <i>raddiana</i> along a gradient of water availability in South Sinai, Egypt. <i>African Journal of Ecology</i> , 2013, 52, n/a-n/a.	0.4	8
475	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
476	Combining analytical frameworks to assess livelihood vulnerability to climate change and analyse adaptation options. <i>Ecological Economics</i> , 2013, 94, 66-77.	2.9	179
477	Mediterranean Oak Woodland Working Landscapes. <i>Landscape Series</i> , 2013, , .	0.1	44
478	Slow-growing species cope best with drought: evidence from long-term measurements in a tropical semi-deciduous moist forest of Central Africa. <i>Journal of Ecology</i> , 2013, 101, 1459-1470.	1.9	77
479	Root-shoot allometry of tropical forest trees determined in a large-scale aeroponic system. <i>Annals of Botany</i> , 2013, 112, 291-296.	1.4	18

#	ARTICLE	IF	CITATIONS
480	Sulfate salt dynamics in the glaciated plains of North America. <i>Journal of Hydrology</i> , 2013, 499, 188-199.	2.3	38
481	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
482	Development of a Hydrological Model for the Rio Conchos Basin. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013, 18, 340-351.	0.8	24
483	Root-associated branched tetraether source microorganisms may reduce estimated paleotemperatures in subsoil. <i>Chemical Geology</i> , 2013, 356, 1-10.	1.4	24
484	The contribution of two common shrub species to aboveground and belowground carbon stock in Iberian dehesas. <i>Journal of Arid Environments</i> , 2013, 91, 22-30.	1.2	28
485	Effects of grazing, trenching and surface soil disturbance on ground cover in woody encroachment on the Cobar Pediplain, south-eastern Australia. <i>Journal of Arid Environments</i> , 2013, 96, 80-86.	1.2	6
486	Global Patterns of Groundwater Table Depth. <i>Science</i> , 2013, 339, 940-943.	6.0	770
487	Effective root depth of the Caatinga biome. <i>Journal of Arid Environments</i> , 2013, 89, 1-4.	1.2	47
488	Root hydrotropism: An update. <i>American Journal of Botany</i> , 2013, 100, 14-24.	0.8	78
489	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
490	Global assessment of the effects of terrestrial acidification on plant species richness. <i>Environmental Pollution</i> , 2013, 174, 10-15.	3.7	62
491	Grassland afforestation impact on primary productivity: a remote sensing approach. <i>Applied Vegetation Science</i> , 2013, 16, 390-403.	0.9	21
492	Comparison of Trees and Grasses for Rhizoremediation of Petroleum Hydrocarbons. <i>International Journal of Phytoremediation</i> , 2013, 15, 844-860.	1.7	85
493	Application of System Dynamics technique to simulate the fate of persistent organic pollutants in soils. <i>Chemosphere</i> , 2013, 90, 2428-2434.	4.2	9
494	Impact of <i>Prosopis</i> invasion on a keystone tree species in the Kalahari Desert. <i>Plant Ecology</i> , 2013, 214, 597-605.	0.7	57
495	Differentiation of plant derived organic matter in soil, loess and rhizoliths based on n-alkane molecular proxies. <i>Biogeochemistry</i> , 2013, 112, 23-40.	1.7	44
496	How to study deep roots—and why it matters. <i>Frontiers in Plant Science</i> , 2013, 4, 299.	1.7	222
497	Groundwater Constraints on Simulated Transpiration Variability over Southeastern Australian Forests. <i>Journal of Hydrometeorology</i> , 2013, 14, 543-559.	0.7	19

#	ARTICLE	IF	CITATIONS
498	Quantifying the carbon uptake by vegetation for Europe on a 1 km <sup>2</sup> resolution using a remote sensing driven vegetation model. <i>Geoscientific Model Development</i> , 2013, 6, 1623-1640.	1.3	26
499	Advances in Soil Ecosystem Services: Concepts, Models, and Applications for Earth System Life Support. <i>Vadose Zone Journal</i> , 2013, 12, 1-13.	1.3	42
500	Plant-Environment Interactions. , 2013, , 1065-1166.		11
501	Satellite-derived estimates of forest leaf area index in southwest Western Australia are not tightly coupled to interannual variations in rainfall: implications for groundwater decline in a drying climate. <i>Global Change Biology</i> , 2013, 19, 2401-2412.	4.2	41
502	Sand dune stabilization reduces infiltration and soil moisture: a case study from the northern Great Plains. <i>Ecohydrology</i> , 2014, 7, 1135-1146.	1.1	5
503	Landscape and environmental controls over leaf and ecosystem carbon dioxide fluxes under woody plant expansion. <i>Journal of Ecology</i> , 2013, 101, 1471-1483.	1.9	21
504	Bundling ecosystem services in the Panama Canal watershed. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9326-9331.	3.3	44
505	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
508	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
509	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
510	Dynamics of Plant Root Growth under Increased Atmospheric Carbon Dioxide. <i>Agronomy Journal</i> , 2013, 105, 657-669.	0.9	113
511	Early Root Overproduction Not Triggered by Nutrients Decisive for Competitive Success Belowground. <i>PLoS ONE</i> , 2013, 8, e55805.	1.1	67
512	Comparison of Methods for Estimating Evapotranspiration in a Small Rangeland Catchment. <i>Vadose Zone Journal</i> , 2014, 13, 1-11.	1.3	16
513	Soil fertility changes and their effects on ginger ( <i>Zingiber officinale</i> Rosc.) yield response in an ultisol under different pigeon pea hedgerow alley management in South Eastern Nigeria. <i>African Journal of Agricultural Research</i> Vol Pp, 2014, 9, 2158-2166.	0.2	3
514	Native Roadside Vegetation that Enhances Soil Erosion Control in Boreal Scandinavia. <i>Environments - MDPI</i> , 2014, 1, 31-41.	1.5	4
515	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
516	Response of vegetation to the 2003 European drought was mitigated by height. <i>Biogeosciences</i> , 2014, 11, 2897-2908.	1.3	17
517	Vegetation of the eastern communal conservancies in Namibia: II. Environmental drivers. <i>Koedoe</i> , 2014, 56, .	0.3	2

#	ARTICLE	IF	CITATIONS
518	Inundation and groundwater dynamics for quantification of evaporative water loss in tropical wetlands. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 4407-4422.	1.9	5
519	Testing conceptual and physically based soil hydrology schemes against observations for the Amazon Basin. <i>Geoscientific Model Development</i> , 2014, 7, 1115-1136.	1.3	49
520	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
521	Jasechko et al. reply. <i>Nature</i> , 2014, 506, E2-E3.	13.7	7
522	Evaluating LSM-Based Water Budgets over a West African Basin Assisted with a River Routing Scheme. <i>Journal of Hydrometeorology</i> , 2014, 15, 2331-2346.	0.7	18
523	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
524	From mountains to sound: modelling the sensitivity of Dungeness crab and Pacific oyster to land-sea interactions in Hood Canal, WA. <i>ICES Journal of Marine Science</i> , 2014, 71, 725-738.	1.2	8
525	Efficient calibration of a distributed pde -based hydrological model using grid coarsening. <i>Journal of Hydrology</i> , 2014, 519, 3290-3304.	2.3	22
526	Root architecture adaptation of <i>Pistacia atlantica</i> subsp. <i>atlantica</i> according to an increasing climatic and edaphic gradient: case of a north-south transect in Algeria. <i>Turkish Journal of Botany</i> , 2014, 38, 536-549.	0.5	4
527	The Wageningen Lowland Runoff Simulator (WALRUS): a lumped rainfall-runoff model for catchments with shallow groundwater. <i>Geoscientific Model Development</i> , 2014, 7, 2313-2332.	1.3	60
528	Root behavior of savanna species in Brazil's Pantanal wetland. <i>Global Ecology and Conservation</i> , 2014, 2, 378-384.	1.0	9
529	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
530	Climate-driven uncertainties in modeling terrestrial gross primary production: a site level to global-scale analysis. <i>Global Change Biology</i> , 2014, 20, 1394-1411.	4.2	72
531	Quantifying the timescales over which exogenous and endogenous conditions affect soil respiration. <i>New Phytologist</i> , 2014, 202, 442-454.	3.5	40
532	Field Testing the Riparian Ecosystem Management Model on a Riparian Buffer in the North Carolina Upper Coastal Plain. <i>Journal of the American Water Resources Association</i> , 2014, 50, 665-682.	1.0	9
533	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
534	Temporal changes of soil physicochemical properties at different soil depths during larch afforestation by multivariate analysis of covariance. <i>Ecology and Evolution</i> , 2014, 4, 1039-1048.	0.8	38
536	Salt- and alkaline-tolerance are linked in <i>Acacia</i> . <i>Biology Letters</i> , 2014, 10, 20140278.	1.0	33

#	ARTICLE	IF	CITATIONS
538	Dynamic root growth and architecture responses to limiting nutrient availability: linking physiological models and experimentation. <i>Biotechnology Advances</i> , 2014, 32, 53-65.	6.0	60
539	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
540	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
541	Dry-season water utilization by trees growing on thin karst soils in a seasonal tropical rainforest of Xishuangbanna, Southwest China. <i>Ecohydrology</i> , 2014, 7, 927-935.	1.1	34
542	Influence of model conceptualisation on one-dimensional recharge quantification: Uley South, South Australia. <i>Hydrogeology Journal</i> , 2014, 22, 795-805.	0.9	12
543	Photosynthetic responses to stress in Mediterranean evergreens: Mechanisms and models. <i>Environmental and Experimental Botany</i> , 2014, 103, 24-41.	2.0	84
544	Vertical root distribution and root cohesion of typical tree species on the Loess Plateau, China. <i>Journal of Arid Land</i> , 2014, 6, 601-611.	0.9	33
545	Dynamics, Chemistry, and Preservation of Organic Matter in Soils. , 2014, , 157-215.		45
546	Spatial and seasonal variations of soil salinity following vegetation restoration in coastal saline land in eastern China. <i>Catena</i> , 2014, 118, 147-153.	2.2	60
547	Improvement to the Thornthwaite Method to Study the Runoff at a Basin Scale Using Temporal Remote Sensing Data. <i>Water Resources Management</i> , 2014, 28, 1567-1578.	1.9	9
548	Which is a better predictor of plant traits: temperature or precipitation?. <i>Journal of Vegetation Science</i> , 2014, 25, 1167-1180.	1.1	323
549	Subsurface Soil Moisture Estimation by VIâ€‘LST Method. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 1951-1955.	1.4	37
550	The challenge of the Mediterranean climate to plant hydraulics: Responses and adaptations. <i>Environmental and Experimental Botany</i> , 2014, 103, 68-79.	2.0	96
551	Riparian evapotranspiration modelling: model description and implementation for predicting vegetation spatial distribution in semi-arid environments. <i>Ecohydrology</i> , 2014, 7, 659-677.	1.1	10
552	Contrasting hydraulic architecture and function in deep and shallow roots of tree species from a semi-arid habitat. <i>Annals of Botany</i> , 2014, 113, 617-627.	1.4	22
553	Assessing the effects of spatial discretization on large-scale flow model performance and prediction uncertainty. <i>Journal of Hydrology</i> , 2014, 510, 10-25.	2.3	31
554	An ecosystem services perspective on brush management: research priorities for competing land-use objectives. <i>Journal of Ecology</i> , 2014, 102, 1394-1407.	1.9	107
555	Plant diversity and drought: The role of deep roots. <i>Ecological Modelling</i> , 2014, 290, 85-93.	1.2	33

#	ARTICLE	IF	CITATIONS
556	Introduction of groundwater capillary rises using subgrid spatial variability of topography into the ISBA land surface model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 11,065.	1.2	48
557	Factors affecting carbon-14 activity of unsaturated zone CO <sub>2</sub> and implications for groundwater dating. <i>Journal of Hydrology</i> , 2014, 519, 465-475.	2.3	28
558	True water constraint under a rainfall interception experiment in a Mediterranean shrubland (Northern Tunisia): confronting discrete measurements with a plant-soil water budget model. <i>Plant Ecology</i> , 2014, 215, 779-794.	0.7	9
559	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
560	Vertical root separation and light interception in a temperate tree-based intercropping system of Eastern Canada. <i>Agroforestry Systems</i> , 2014, 88, 693-706.	0.9	34
561	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
562	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
563	GIS-Based Water Budget Framework for High-Resolution Groundwater Recharge Estimation of Large-Scale Humid Regions. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014, 19, .	0.8	20
564	Introducing an improved multi-proxy approach for paleoenvironmental reconstruction of loess-paleosol archives applied on the Late Pleistocene Nussloch sequence (SW Germany). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 410, 300-315.	1.0	53
566	Water uptake and redistribution during drought in a semiarid shrub species. <i>Functional Plant Biology</i> , 2014, 41, 812.	1.1	12
567	Uncertainties in transpiration estimates. <i>Nature</i> , 2014, 506, E1-E2.	13.7	157
568	Internal hydraulic redistribution prevents the loss of root conductivity during drought. <i>Tree Physiology</i> , 2014, 34, 39-48.	1.4	35
569	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
570	Groundwater decline and tree change in floodplain landscapes: Identifying non-linear threshold responses in canopy condition. <i>Global Ecology and Conservation</i> , 2014, 2, 148-160.	1.0	42
571	Land management implications for ecosystem services in a South African rangeland. <i>Ecological Indicators</i> , 2014, 45, 692-703.	2.6	22
572	Estimating groundwater recharge and evapotranspiration from water table fluctuations under three vegetation covers in a coastal sandy aquifer of subtropical Australia. <i>Journal of Hydrology</i> , 2014, 519, 1120-1129.	2.3	76
573	Biopores and root features as new tools for improving paleoecological understanding of terrestrial sediment-paleosol sequences. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 394, 42-58.	1.0	26
574	Lateral and depth variation of loess organic matter overprint related to rhizoliths Revealed by lipid molecular proxies and X-ray tomography. <i>Catena</i> , 2014, 112, 72-85.	2.2	35



#	ARTICLE	IF	CITATIONS
575	The silent shareholder in deterioration of oak growth: common planting practices affect the long-term response of oaks to periodic drought. <i>Forest Ecology and Management</i> , 2014, 318, 133-141.	1.4	28
576	Optimal root profiles in water-limited ecosystems. <i>Advances in Water Resources</i> , 2014, 71, 16-22.	1.7	3
577	Temporal changes in SOM, N, P, K, and their stoichiometric ratios during reforestation in China and interactions with soil depths: Importance of deep-layer soil and management implications. <i>Forest Ecology and Management</i> , 2014, 325, 8-17.	1.4	42
578	GlobalSoilMap. <i>Advances in Agronomy</i> , 2014, , 93-134.	2.4	246
579	Process dominance shift in solute chemistry as revealed by long-term high-frequency water chemistry observations of groundwater flowing through weathered argillite underlying a steep forested hillslope. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 1-19.	1.6	51
580	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
581	Aerobic and Anaerobic Respiration in Profiles of Polesie Lubelskie Peatlands. <i>International Agrophysics</i> , 2014, 28, 219-229.	0.7	33
582	The influence of depth-to-groundwater on structure and productivity of Eucalyptus woodlands. <i>Australian Journal of Botany</i> , 2014, 62, 428.	0.3	36
583	Transpiration in <i>Quercus suber</i> trees under shallow water table conditions: the role of soil and groundwater. <i>Hydrological Processes</i> , 2014, 28, 6067-6079.	1.1	34
584	Tree roots can penetrate deeply in African semi-deciduous rain forests: evidence from two common soil types. <i>Journal of Tropical Ecology</i> , 2015, 31, 13-23.	0.5	25
585	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
586	Tree Coring as a Complement to Soil Gas Screening to Locate PCE and TCE Source Zones and Hot Spots. <i>Ground Water Monitoring and Remediation</i> , 2015, 35, 57-66.	0.6	8
587	Comparison of Phytoscreening and Direct Push-Based Site Investigation at a Rural Megasite Contaminated with Chlorinated Ethenes. <i>Ground Water Monitoring and Remediation</i> , 2015, 35, 45-56.	0.6	7
588	Modelling the effects of soil type and root distribution on shallow groundwater resources. <i>Hydrological Processes</i> , 2015, 29, 4457-4469.	1.1	13
589	Impacts of invading alien plant species on water flows at stand and catchment scales. <i>AoB PLANTS</i> , 2015, 7, plv043.	1.2	58
590	Deep drainage sensitivity to climate, edaphic factors, and woody encroachment, Oklahoma, USA. <i>Hydrological Processes</i> , 2015, 29, 3779-3789.	1.1	22
591	Understanding moisture stress on light use efficiency across terrestrial ecosystems based on global flux and remote sensing data. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 2053-2066.	1.3	45
592	Water availability predicts forest canopy height at the global scale. <i>Ecology Letters</i> , 2015, 18, 1311-1320.	3.0	87

#	ARTICLE	IF	CITATIONS
593	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
595	Reconstructing Extinct Plant Water Use for Understanding Vegetation–Climate Feedbacks: Methods, Synthesis, and a Case Study Using the Paleozoic-Era Medullosan Seed Ferns. <i>The Paleontological Society Papers</i> , 2015, 21, 167-196.	0.8	23
596	Time series analysis of the long-term hydrologic impacts of afforestation in the Āgueda watershed of north-central Portugal. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 3033-3045.	1.9	34
597	Lessons on Buried Horizons and Pedogenesis from Deep Forest Soils. <i>Soil Horizons</i> , 2015, 56, 1.	0.3	4
598	Effects of Land Use and Climate Change on Groundwater and Ecosystems at the Middle Reaches of the Tarim River Using the MIKE SHE Integrated Hydrological Model. <i>Water (Switzerland)</i> , 2015, 7, 3040-3056.	1.2	40
599	Soil Carbon and Nitrogen Stocks of Different Hawaiian Sugarcane Cultivars. <i>Agronomy</i> , 2015, 5, 239-261.	1.3	5
600	Comparative Drought Responses of <i>Quercus ilex</i> L. and <i>Pinus sylvestris</i> L. in a Montane Forest Undergoing a Vegetation Shift. <i>Forests</i> , 2015, 6, 2505-2529.	0.9	40
601	Responses of Natural Vegetation to Different Stages of Extreme Drought during 2009–2010 in Southwestern China. <i>Remote Sensing</i> , 2015, 7, 14039-14054.	1.8	39
602	Monitoring the Impacts of Severe Drought on Southern California Chaparral Species using Hyperspectral and Thermal Infrared Imagery. <i>Remote Sensing</i> , 2015, 7, 14276-14291.	1.8	38
603	Coupling global models for hydrology and nutrient loading to simulate nitrogen and phosphorus retention in surface water – description of IMAGE–GNM and analysis of performance. <i>Geoscientific Model Development</i> , 2015, 8, 4045-4067.	1.3	124
604	Comparing Bioenergy Production Sites in the Southeastern US Regarding Ecosystem Service Supply and Demand. <i>PLoS ONE</i> , 2015, 10, e0116336.	1.1	22
605	Qualitative soil moisture assessment in semi-arid Africa – the role of experience and training on inter-rater reliability. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 3505-3516.	1.9	5
606	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
607	Geophysical investigation of Obot Ekpo Landslide site, Cross River State, Nigeria. <i>Journal of African Earth Sciences</i> , 2015, 109, 154-167.	0.9	27
608	Using pre-screening methods for an effective and reliable site characterization at megasites. <i>Environmental Science and Pollution Research</i> , 2015, 22, 14673-14686.	2.7	13
609	C:N:P Stoichiometry and Leaf Traits of Halophytes in an Arid Saline Environment, Northwest China. <i>PLoS ONE</i> , 2015, 10, e0119935.	1.1	47
610	Groundwater recharge by Sahelian rivers – consequences for agricultural development: example from the lower Komadugu Yobe River (Eastern Niger, Lake Chad Basin). <i>Environmental Earth Sciences</i> , 2015, 74, 1291-1302.	1.3	12
611	Interannual variability in competitive effects in mixed and monospecific forests of Mediterranean stone pine. <i>Forest Ecology and Management</i> , 2015, 358, 230-239.	1.4	27

#	ARTICLE	IF	CITATIONS
612	Spatial and Temporal Patterns of Supply and Demand Balance of Water Supply Services in the Dongjiang Lake Basin and Its Beneficiary Areas. <i>Journal of Resources and Ecology</i> , 2015, 6, 386-396.	0.2	25
613	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
614	Modeling Effects of Canopy and Roots on Soil Moisture and Deep Drainage. <i>Vadose Zone Journal</i> , 2015, 14, 1-18.	1.3	23
615	Assessing the impact of large-scale water table modifications on riparian trees: a case study from Australia. <i>Ecohydrology</i> , 2015, 8, 642-651.	1.1	6
616	Relationships between dominant plant species, fractional cover and Land Surface Temperature in a Mediterranean ecosystem. <i>Remote Sensing of Environment</i> , 2015, 167, 152-167.	4.6	60
617	Quantifying spatiotemporal dynamics of root-zone soil water in a mixed forest on subtropical coastal sand dune using surface ERT and spatial TDR. <i>Journal of Hydrology</i> , 2015, 523, 475-488.	2.3	47
618	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
619	A GIS-assisted regional screening tool to evaluate the leaching potential of volatile and non-volatile pesticides. <i>Journal of Hydrology</i> , 2015, 522, 163-173.	2.3	15
620	The eco-geomorphological roles of rocky deep crevices for water supply on arid zone mountain slopes (case study: Mehriz-Yazd, Iran). <i>Environmental Earth Sciences</i> , 2015, 74, 493-504.	1.3	5
621	Plasticity of tree root system structure in contrasting soil materials and environmental conditions. <i>Plant and Soil</i> , 2015, 387, 21-35.	1.8	39
622	Climatic controls on sap flow dynamics and used water sources of <i>Salix psammophila</i> in a semi-arid environment in northwest China. <i>Environmental Earth Sciences</i> , 2015, 73, 289-301.	1.3	33
623	Dune crests serve as preferential habitats for perennial plants during frequent drought years. <i>Journal of Hydrology</i> , 2015, 522, 295-304.	2.3	25
624	Annual growth in longleaf ( <i>Pinus palustris</i> ) and pond pine ( <i>P. serotina</i> ) in the Sandhills of North Carolina is driven by interactions between fire and climate. <i>Forest Ecology and Management</i> , 2015, 340, 1-8.	1.4	14
625	Comparative study of climate-change scenarios on groundwater recharge, southwestern Mississippi and southeastern Louisiana, USA. <i>Hydrogeology Journal</i> , 2015, 23, 789-806.	0.9	19
626	Ground truthing groundwater-recharge estimates derived from remotely sensed evapotranspiration: a case in South Australia. <i>Hydrogeology Journal</i> , 2015, 23, 335-350.	0.9	43
627	Ecohydrology and the Critical Zone: Processes and Patterns Across Scales. <i>Developments in Earth Surface Processes</i> , 2015, , 239-266.	2.8	6
628	Lysimeter monitoring as assessment of the potential for revegetation to manage former iron industry settling ponds. <i>Science of the Total Environment</i> , 2015, 526, 29-40.	3.9	10
629	Interaction between groundwater and trees in an arid site: Potential impacts of climate variation and groundwater abstraction on trees. <i>Journal of Hydrology</i> , 2015, 528, 435-448.	2.3	55

#	ARTICLE	IF	CITATIONS
630	Nitrogen sharing and water source partitioning co-occur in estuarine wetlands. <i>Functional Plant Biology</i> , 2015, 42, 410.	1.1	5
631	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
632	Soil-vegetation type, stem density and species richness influence biomass of restored woodland in south-western Australia. <i>Forest Ecology and Management</i> , 2015, 344, 53-62.	1.4	12
633	Root biomass and soil $\delta^{13}C$ in C3 and C4 grasslands along a precipitation gradient. <i>Plant Ecology</i> , 2015, 216, 615-627.	0.7	21
634	Global-scale environmental control of plant photosynthetic capacity. <i>Ecological Applications</i> , 2015, 25, 2349-2365.	1.8	95
635	Assessing changes in water flow regulation in Chongqing region, China. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 362.	1.3	24
636	Soil phosphorus fractionation and nutrient dynamics along the Cooloola coastal dune chronosequence, southern Queensland, Australia. <i>Geoderma</i> , 2015, 257-258, 4-13.	2.3	57
637	Effects of climate extremes on the terrestrial carbon cycle: concepts, processes and potential future impacts. <i>Global Change Biology</i> , 2015, 21, 2861-2880.	4.2	683
638	Developing additive systems of biomass equations for nine hardwood species in Northeast China. <i>Trees - Structure and Function</i> , 2015, 29, 1149-1163.	0.9	69
639	Water and energy fluxes from a woodland savanna (cerrado) in southeast Brazil. <i>Journal of Hydrology: Regional Studies</i> , 2015, 4, 22-40.	1.0	28
640	Getting water right: A case study in water yield modelling based on precipitation data. <i>Science of the Total Environment</i> , 2015, 537, 225-234.	3.9	79
641	Contrasting leaf phenological strategies optimize carbon gain under droughts of different duration. <i>Advances in Water Resources</i> , 2015, 84, 37-51.	1.7	34
642	Empirical stomatal conductance models reveal that the isohydric behavior of an <i>Acacia</i> caven Mediterranean Savannah scales from leaf to ecosystem. <i>Agricultural and Forest Meteorology</i> , 2015, 213, 203-216.	1.9	22
643	Coupling a water balance model with forest inventory data to predict drought stress: the role of forest structural changes vs. climate changes. <i>Agricultural and Forest Meteorology</i> , 2015, 213, 77-90.	1.9	55
644	Estimation of groundwater recharge via deuterium labelling in the semi-arid Cuvelai-Etoshia Basin, Namibia. <i>Isotopes in Environmental and Health Studies</i> , 2015, 51, 533-552.	0.5	18
645	Significant uncertainty in global scale hydrological modeling from precipitation data errors. <i>Journal of Hydrology</i> , 2015, 529, 1095-1115.	2.3	57
646	Computer-Based Modeling of Impacts of <i>Prunus africana</i> on Groundwater in Northwestern Cameroon. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2015, 141, .	1.3	1
647	Chloride concentration distribution under oak hedgerow: an indicator of the water-uptake zone of tree roots?. <i>Plant and Soil</i> , 2015, 386, 357-369.	1.8	5

#	ARTICLE	IF	CITATIONS
648	Root uptake under non-uniform root-zone salinity. <i>Ecohydrology</i> , 2015, 8, 1363-1379.	1.1	17
649	Evaluation of three vegetation treatments in bioretention gardens in a semi-arid climate. <i>Landscape and Urban Planning</i> , 2015, 135, 62-72.	3.4	48
650	The combined effects of a long-term experimental drought and an extreme drought on the use of plant-water sources in a Mediterranean forest. <i>Global Change Biology</i> , 2015, 21, 1213-1225.	4.2	240
651	The association of gold with calcrete. <i>Ore Geology Reviews</i> , 2015, 66, 132-199.	1.1	14
652	Root structural and functional dynamics in terrestrial biosphere models – evaluation and recommendations. <i>New Phytologist</i> , 2015, 205, 59-78.	3.5	214
653	Canopy transpiration of a semi arid <i>Pinus canariensis</i> forest at a treeline ecotone in two hydrologically contrasting years. <i>Agricultural and Forest Meteorology</i> , 2015, 201, 120-127.	1.9	43
654	Deep soil: Quantification, modeling, and significance of subsurface nitrogen. <i>Forest Ecology and Management</i> , 2015, 336, 194-202.	1.4	14
655	Choosing an optimal land-use pattern for restoring eco-environments in a semiarid region of the Chinese Loess Plateau. <i>Ecological Engineering</i> , 2015, 74, 213-222.	1.6	69
656	Water uptake and hydraulic redistribution under a seasonal climate: long-term study in a rainfed olive orchard. <i>Ecohydrology</i> , 2015, 8, 387-397.	1.1	21
657	Water-use advantage for lianas over trees in tropical seasonal forests. <i>New Phytologist</i> , 2015, 205, 128-136.	3.5	115
658	Soil carbon, nitrogen and phosphorus changes from conversion of thornscrub to buffelgrass pasture in northwestern Mexico. <i>Agriculture, Ecosystems and Environment</i> , 2015, 199, 231-237.	2.5	13
659	Water balance of the Sudanese savannah woodland region. <i>Hydrological Sciences Journal</i> , 2015, 60, 706-722.	1.2	2
660	Climatic, ecophysiological, and phenological controls on plant ecohydrological strategies in seasonally dry ecosystems. <i>Ecohydrology</i> , 2015, 8, 660-681.	1.1	79
661	Impacts of snow and organic soils parameterization on northern Eurasian soil temperature profiles simulated by the ISBA land surface model. <i>Cryosphere</i> , 2016, 10, 853-877.	1.5	91
662	Soil indicators to assess the effectiveness of restoration strategies in dryland ecosystems. <i>Solid Earth</i> , 2016, 7, 397-414.	1.2	105
664	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
665	Optical/Thermal-Based Techniques for Subsurface Soil Moisture Estimation. , 2016, , 73-89.		0
666	Paleosols can promote root growth of recent vegetation – a case study from the sandy soil-sediment sequence Rakt, the Netherlands. <i>Soil</i> , 2016, 2, 537-549.	2.2	5

#	ARTICLE	IF	CITATIONS
667	Global root zone storage capacity from satellite-based evaporation. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 1459-1481.	1.9	107
668	The effect of different evapotranspiration methods on portraying soil water dynamics and ET partitioning in a semi-arid environment in Northwest China. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 975-990.	1.9	43
669	C4 Grasses: Resource Use, Ecology, and Global Change. <i>Agronomy</i> , 2016, , 15-50.	0.2	11
670	Effects of Drought and Rewetting on Growth and Gas Exchange of Minor European Broadleaved Tree Species. <i>Forests</i> , 2016, 7, 239.	0.9	32
671	The Effect of Harvest on Forest Soil Carbon: A Meta-Analysis. <i>Forests</i> , 2016, 7, 308.	0.9	118
672	Regional Patterns of Ecosystem Services in Cultural Landscapes. <i>Land</i> , 2016, 5, 17.	1.2	20
673	Effect of Tree-to-Shrub Type Conversion in Lower Montane Forests of the Sierra Nevada (USA) on Streamflow. <i>PLoS ONE</i> , 2016, 11, e0161805.	1.1	47
674	Vegetation Productivity in Natural vs. Cultivated Systems along Water Availability Gradients in the Dry Subtropics. <i>PLoS ONE</i> , 2016, 11, e0168168.	1.1	4
675	Global Biogeography. , 0, , 422-450.		0
676	Effects of Recent Minimum Temperature and Water Deficit Increases on <i>Pinus pinaster</i> Radial Growth and Wood Density in Southern Portugal. <i>Frontiers in Plant Science</i> , 2016, 7, 1170.	1.7	35
677	Multidimensional structure of grass functional traits among species and assemblages. <i>Journal of Vegetation Science</i> , 2016, 27, 1047-1060.	1.1	25
678	Empirical validation of the InVEST water yield ecosystem service model at a national scale. <i>Science of the Total Environment</i> , 2016, 569-570, 1418-1426.	3.9	240
679	Non-native tree in a dry coastal area in Hawai'i has high transpiration but restricts water use despite phreatophytic trait. <i>Ecohydrology</i> , 2016, 9, 1166-1176.	1.1	9
680	Embolism spread in the primary xylem of <i>Polystichum munitum</i> : implications for water transport during seasonal drought. <i>Plant, Cell and Environment</i> , 2016, 39, 338-346.	2.8	9
681	Distinct patterns of interaction between vegetation and morphodynamics. <i>Earth Surface Processes and Landforms</i> , 2016, 41, 791-808.	1.2	127
682	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
683	Understanding deep roots and their functions in ecosystems: an advocacy for more unconventional research. <i>Annals of Botany</i> , 2016, 118, 621-635.	1.4	211
684	Ecohydrological changes in semiarid ecosystems transformed from shrubland to buffelgrass savanna. <i>Ecohydrology</i> , 2016, 9, 1663-1674.	1.1	18

#	ARTICLE	IF	CITATIONS
685	Riparian plant guilds of ephemeral, intermittent and perennial rivers. <i>Freshwater Biology</i> , 2016, 61, 1259-1275.	1.2	78
686	An Introduction to Biogeography: Broad-Scale Relationships Amongst Climate, Vegetation Distribution and Vegetation Attributes. , 0, , 3-42.		0
687	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
688	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
689	Optimizing hotspot areas for ecological planning and management based on biodiversity and ecosystem services. <i>Chinese Geographical Science</i> , 2016, 26, 256-269.	1.2	36
690	Soil thermal regime after fuel spill cleanup response in a continuous permafrost zone. <i>Polar Record</i> , 2016, 52, 98-107.	0.4	0
691	Thermal and visible remote sensing for estimation of evapotranspiration of rainfed agrosystems and its impact on groundwater in SE Australia. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
692	Urbanization as a land use change driver of forest ecosystem services. <i>Land Use Policy</i> , 2016, 54, 188-199.	2.5	138
693	Deep roots and soil structure. <i>Plant, Cell and Environment</i> , 2016, 39, 1662-1668.	2.8	115
694	Reliance on shallow soil water in a mixed-hardwood forest in central Pennsylvania. <i>Tree Physiology</i> , 2016, 36, 444-458.	1.4	74
695	Bioecology of <i>Nephtopterygia austeritella</i> (Lep.: Pyralidae), a potential biological control agent of <i>Prosopis farcta</i> (Fabaceae) in central Iran. <i>Hellenic Plant Protection Journal</i> , 2016, 9, 78-88.	0.4	1
696	Effect of watertable depth and salinity on growth dynamics of Rhodes grass ( <i>Chloris gayana</i> ). <i>Crop and Pasture Science</i> , 2016, 67, 881.	0.7	6
697	GlobalSoilMap France: High-resolution spatial modelling the soils of France up to two meter depth. <i>Science of the Total Environment</i> , 2016, 573, 1352-1369.	3.9	111
698	Exchangeable cations in deep forest soils: Separating climate and chemical controls on spatial and vertical distribution and cycling. <i>Geoderma</i> , 2016, 279, 109-121.	2.3	12
699	Sequence of plant responses to droughts of different timescales: lessons from holm oak ( <i>Quercus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.6	49
700	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
701	Ecology and sampling techniques of an understudied subterranean habitat: the Milieu Souterrain Superficiel (MSS). <i>Die Naturwissenschaften</i> , 2016, 103, 88.	0.6	78
702	Ecological implications of different water use strategies in three coexisting mediterranean tree species. <i>Forest Ecology and Management</i> , 2016, 382, 76-87.	1.4	16

#	ARTICLE	IF	CITATIONS
703	Global estimation of effective plant rooting depth: Implications for hydrological modeling. <i>Water Resources Research</i> , 2016, 52, 8260-8276.	1.7	162
704	Estimation of fine root biomass using a minirhizotron technique among three vegetation types in a cool-temperate brackish marsh. <i>Soil Science and Plant Nutrition</i> , 2016, 62, 465-470.	0.8	2
705	Topsoil depth substantially influences the responses to drought of the foliar metabolomes of Mediterranean forests. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2016, 21, 41-54.	1.1	30
706	Coupled Hydrological/Hydraulic Modelling of River Restoration Impacts and Floodplain Hydrodynamics. <i>River Research and Applications</i> , 2016, 32, 1927-1948.	0.7	33
707	Root biomass, turnover and net primary productivity of a coffee agroforestry system in Costa Rica: effects of soil depth, shade trees, distance to row and coffee age. <i>Annals of Botany</i> , 2016, 118, 833-851.	1.4	45
708	Influence of soil and climate on root zone storage capacity. <i>Water Resources Research</i> , 2016, 52, 2009-2024.	1.7	62
709	Vertical and seasonal dynamics of fungal communities in boreal Scots pine forest soil. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw170.	1.3	84
710	Modelling soil thickness in the critical zone for Southern British Columbia. <i>Geoderma</i> , 2016, 282, 59-69.	2.3	32
711	Assessing the impact of land-cover changes on ecosystem services: A first step toward integrative planning in Bordeaux, France. <i>Ecosystem Services</i> , 2016, 22, 318-327.	2.3	113
712	Dynamics of water vapor and energy exchanges above two contrasting Sudanian climate ecosystems in Northern Benin (West Africa). <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,269.	1.2	18
713	Potential of forest thinning to mitigate drought stress: A meta-analysis. <i>Forest Ecology and Management</i> , 2016, 380, 261-273.	1.4	294
714	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
715	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
716	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
717	Implementing and Evaluating Variable Soil Thickness in the Community Land Model, Version 4.5 (CLM4.5). <i>Journal of Climate</i> , 2016, 29, 3441-3461.	1.2	49
718	Ecosystem services of human-dominated watersheds and land use influences: a case study from the Dianchi Lake watershed in China. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 652.	1.3	33
719	Spatial variability of SEBAL estimated root-zone soil moisture across scales. <i>International Journal of Remote Sensing</i> , 2016, 37, 4838-4853.	1.3	1
720	The annual pattern of sap flow in two Eucalyptus species established in the vicinity of gold-mine tailings dams in central South Africa. <i>Southern Forests</i> , 2016, 78, 307-313.	0.2	2



#	ARTICLE	IF	CITATIONS
721	The RVDM: modelling impacts, evolution and competition processes to determine riparian vegetation dynamics. <i>Ecohydrology</i> , 2016, 9, 438-459.	1.1	45
722	Response of CO <sub>2</sub> fluxes and productivity to water availability in two contrasting ecosystems in northern Benin (West Africa). <i>Annals of Forest Science</i> , 2016, 73, 483-500.	0.8	9
723	Overland water flow contributes little to survival, growth, reproduction, and ecophysiology of <i>Olneya tesota</i> (Desert Ironwood) trees. <i>Southwestern Naturalist</i> , 2016, 61, 119-124.	0.1	0
724	50 years of water extraction in the Pampa del Tamarugal basin: Can <i>Prosopis tamarugo</i> trees survive in the hyper-arid Atacama Desert (Northern Chile)? <i>Journal of Arid Environments</i> , 2016, 124, 292-303.	1.2	41
725	Field-scale study of the influence of differing remediation strategies on trace metal geochemistry in metal mine tailings from the Irish Midlands. <i>Environmental Science and Pollution Research</i> , 2016, 23, 5592-5608.	2.7	10
726	Plant-available water and integral energy for <i>Medicago sativa</i> and <i>Bromus tomentellus</i> in texturally different soils. <i>Archives of Agronomy and Soil Science</i> , 2016, 62, 69-91.	1.3	1
727	Modelling water-table depth in a primary aquifer to identify potential wetland hydrogeomorphic settings on the northern Maputaland Coastal Plain, KwaZulu-Natal, South Africa. <i>Hydrogeology Journal</i> , 2016, 24, 249-265.	0.9	10
728	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
729	Aboveground and belowground biomass allocation patterns in two Mediterranean oaks with contrasting leaf habit: an insight into carbon stock in young oak coppices. <i>European Journal of Forest Research</i> , 2016, 135, 243-252.	1.1	19
730	Co-evolution of hydrological components under climate change scenarios in the Mediterranean area. <i>Science of the Total Environment</i> , 2016, 544, 515-524.	3.9	26
731	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
732	Carbon and water flux patterns of a drought-prone mid-succession ecosystem developed on abandoned karst grassland. <i>Agriculture, Ecosystems and Environment</i> , 2016, 220, 152-163.	2.5	26
733	Evaluation of a moderate resolution imaging spectroradiometer triangle-based algorithm for evapotranspiration estimates in subalpine regions. <i>Journal of Applied Remote Sensing</i> , 2016, 10, 016002.	0.6	9
734	Deep Impact: Effects of Mountaintop Mining on Surface Topography, Bedrock Structure, and Downstream Waters. <i>Environmental Science &amp; Technology</i> , 2016, 50, 2064-2074.	4.6	82
735	Germination, seedling growth requirements and antimicrobial properties of <i>Boscia albitrunca</i> – A keystone species in arid southern Africa. <i>South African Journal of Botany</i> , 2016, 104, 105-111.	1.2	1
736	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
737	Root distribution by depth for temperate agricultural crops. <i>Field Crops Research</i> , 2016, 189, 68-74.	2.3	302
738	Eucalyptus and Pinus stand density effects on soil carbon sequestration. <i>Forest Ecology and Management</i> , 2016, 368, 28-38.	1.4	32

#	ARTICLE	IF	CITATIONS
739	A deuterium-based labeling technique for the investigation of rooting depths, water uptake dynamics and unsaturated zone water transport in semiarid environments. <i>Journal of Hydrology</i> , 2016, 533, 627-643.	2.3	80
740	Field-scale modeling of tree-crop interactions: Challenges and development needs. <i>Agricultural Systems</i> , 2016, 142, 51-69.	3.2	115
741	A comparison of estimates of basin-scale soil-moisture evapotranspiration and estimates of riparian groundwater evapotranspiration with implications for water budgets in the Verde Valley, Central Arizona, USA. <i>Journal of Arid Environments</i> , 2016, 124, 278-291.	1.2	7
742	Links between soil texture and root architecture of Eucalyptus species may limit distribution ranges under future climates. <i>Plant and Soil</i> , 2016, 403, 217-229.	1.8	14
743	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
744	A review of metal transfer mechanisms through transported cover with emphasis on the vadose zone within the Australian regolith. <i>Ore Geology Reviews</i> , 2016, 73, 394-416.	1.1	61
745	Above- and belowground patterns in a subalpine grassland-shrub mosaic. <i>Plant Biosystems</i> , 2017, 151, 493-503.	0.8	11
746	Variations of Soil Organic Carbon Following Land Use Change on Deep Loess Hillslopes in China. <i>Land Degradation and Development</i> , 2017, 28, 1902-1912.	1.8	58
747	Meteorological limits to winter wheat productivity in the U.S. southern Great Plains. <i>Field Crops Research</i> , 2017, 203, 212-226.	2.3	87
748	Deep soil water extraction helps to drought avoidance but shallow soil water uptake during dry season controls the inter-annual variation in tree growth in four subtropical plantations. <i>Agricultural and Forest Meteorology</i> , 2017, 234-235, 106-114.	1.9	63
749	The Potential Role of Tree Diversity in Reducing Shallow Landslide Risk. <i>Environmental Management</i> , 2017, 59, 807-815.	1.2	27
750	Continental mapping of groundwater dependent ecosystems: A methodological framework to integrate diverse data and expert opinion. <i>Journal of Hydrology: Regional Studies</i> , 2017, 10, 61-81.	1.0	41
751	Varying water utilization of <i>Haloxyylon ammodendron</i> plantations in a desert-oasis ecotone. <i>Hydrological Processes</i> , 2017, 31, 825-835.	1.1	54
752	Local soil type variability controls the water budget and stand productivity in a beech forest. <i>Forest Ecology and Management</i> , 2017, 390, 89-103.	1.4	33
753	Apparent Stability and Subtle Change in Surface and Subsurface Soil Carbon and Nitrogen under a Long-Term Fertilizer Gradient. <i>Soil Science Society of America Journal</i> , 2017, 81, 310-321.	1.2	15
754	Variation in species-level plant functional traits over wetland indicator status categories. <i>Ecology and Evolution</i> , 2017, 7, 3732-3744.	0.8	22
755	Evaluating the impact of irrigation on surface water-groundwater interaction and stream temperature in an agricultural watershed. <i>Science of the Total Environment</i> , 2017, 599-600, 581-596.	3.9	47
756	Comparative water use in short-rotation Eucalyptus benthamii and Pinus taeda trees in the Southern United States. <i>Forest Ecology and Management</i> , 2017, 397, 126-138.	1.4	29

#	ARTICLE	IF	CITATIONS
757	Accuracy of tree root biomass sampling methodologies for carbon mitigation projects. <i>Ecological Engineering</i> , 2017, 98, 264-274.	1.6	13
758	Increasing carbon discrimination rates and depth of water uptake favor the growth of Mediterranean evergreen trees in the ecotone with temperate deciduous forests. <i>Global Change Biology</i> , 2017, 23, 5054-5068.	4.2	30
759	The late-Holocene avifaunal assemblage from the island of Palagruža (Croatia): The earliest record of the Northern Gannet in the Adriatic Sea. <i>Holocene</i> , 2017, 27, 1540-1549.	0.9	1
760	The water footprint of wood for lumber, pulp, paper, fuel and firewood. <i>Advances in Water Resources</i> , 2017, 107, 490-501.	1.7	49
761	Climate biomes, pedo biomes or pyro biomes: which world view explains the tropical forest-savanna boundary in South America?. <i>Journal of Biogeography</i> , 2017, 44, 2319-2330.	1.4	45
762	Carbon stocks in bamboo ecosystems worldwide: Estimates and uncertainties. <i>Forest Ecology and Management</i> , 2017, 393, 113-138.	1.4	150
763	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
764	Growth and Function of Root Systems. , 2017, , 230-237.		2
765	Hydrologic refugia, plants, and climate change. <i>Global Change Biology</i> , 2017, 23, 2941-2961.	4.2	257
766	Mycorrhizal Networks and Forest Resilience to Drought. , 2017, , 319-339.		18
767	Water availability drives stem growth and stem water deficit of <i>Pinus canariensis</i> in a drought-induced treeline in Tenerife. <i>Plant Ecology</i> , 2017, 218, 277-290.	0.7	15
768	Nitrogen leaching following clear-cutting and soil scarification at a Scots pine site - A modelling study of a fertilization experiment. <i>Forest Ecology and Management</i> , 2017, 385, 281-294.	1.4	6
769	Divergent surface and total soil moisture projections under global warming. <i>Geophysical Research Letters</i> , 2017, 44, 236-244.	1.5	206
770	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
771	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
772	Photosynthetic CO <sub>2</sub> uptake and carbon sequestration potential of deciduous and evergreen tree species in an urban environment. <i>Urban Ecosystems</i> , 2017, 20, 663-674.	1.1	24
773	Linking ecosystem service supply to stakeholder concerns on both land and sea: An example from Guánica Bay watershed, Puerto Rico. <i>Ecological Indicators</i> , 2017, 74, 371-383.	2.6	19
774	Incorporating Surface Water Operations in an Integrated Hydrologic Model: Model Development and Application to the Lower Republican River Basin, United States. <i>Journal of Hydrologic Engineering - ASCE</i> , 2017, 22, .	0.8	8

#	ARTICLE	IF	CITATIONS
775	Simulation of the hydrological impacts of climate change on a restored floodplain. <i>Hydrological Sciences Journal</i> , 2017, 62, 2482-2510.	1.2	20
776	Changes in microbial community composition following phytostabilization of an extremely acidic Cu mine tailings. <i>Soil Biology and Biochemistry</i> , 2017, 114, 52-58.	4.2	39
777	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
778	Hydrologic regulation of plant rooting depth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10572-10577.	3.3	635
779	Relative contribution of groundwater to plant transpiration estimated with stable isotopes. <i>Scientific Reports</i> , 2017, 7, 10580.	1.6	119
780	Scaling of the reinforcement of soil slopes by living plants in a geotechnical centrifuge. <i>Ecological Engineering</i> , 2017, 109, 207-227.	1.6	70
781	Mapping riparian vegetation and characterising its groundwater dependency at the modder river government water scheme. <i>Groundwater for Sustainable Development</i> , 2017, 5, 216-228.	2.3	5
782	Impacts of hydraulic redistribution on grass-“tree competition vs facilitation in a semi-“arid savanna. <i>New Phytologist</i> , 2017, 215, 1451-1461.	3.5	51
783	Transpiration of Eucalyptus woodlands across a natural gradient of depth-to-groundwater. <i>Tree Physiology</i> , 2017, 37, 961-975.	1.4	14
784	The potential of Eucalyptus plantations to restore degraded soils in semi-arid Morocco (NW Africa). <i>Annals of Forest Science</i> , 2017, 74, 1.	0.8	15
785	Effects of land use and climate change on ecosystem services in Central Asia's arid regions: A case study in Altay Prefecture, China. <i>Science of the Total Environment</i> , 2017, 607-608, 633-646.	3.9	178
786	Partitioning Evapotranspiration into Green and Blue Water Sources in the Conterminous United States. <i>Scientific Reports</i> , 2017, 7, 6191.	1.6	47
787	Significant inconsistency of vegetation carbon density in CMIP5 Earth system models against observational data. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 2282-2297.	1.3	17
788	Patterns of plant species composition in mesic woodlands are related to a naturally occurring depth-to-groundwater gradient. <i>Community Ecology</i> , 2017, 18, 21-30.	0.5	3
789	Long-Term Quantification of Stream-Aquifer Exchange in a Variably-Saturated Heterogeneous Environment. <i>Water Resources Management</i> , 2017, 31, 4353-4366.	1.9	7
790	Competition Drives Oak Species Distribution and Functioning in Europe: Implications Under Global Change. <i>Tree Physiology</i> , 2017, , 513-538.	0.9	5
791	Impact of Plant Functional Types on Coherence Between Precipitation and Soil Moisture: A Wavelet Analysis. <i>Geophysical Research Letters</i> , 2017, 44, 12,197.	1.5	31
794	Differences in water-use strategies along an aridity gradient between two coexisting desert shrubs ( <i>Reaumuria soongorica</i> and <i>Nitraria sphaerocarpa</i> ): isotopic approaches with physiological evidence. <i>Plant and Soil</i> , 2017, 419, 169-187.	1.8	38

#	ARTICLE	IF	CITATIONS
795	Seasonal cycles of sap flow and stem radius variation of <i>Spartocytisus supranubius</i> in the alpine zone of Tenerife, Canary Islands. <i>Alpine Botany</i> , 2017, 127, 97-108.	1.1	15
796	Strategies trees use to overcome seasonal water limitation in an agroforestry system in semiarid West Africa. <i>Ecohydrology</i> , 2017, 10, e1808.	1.1	25
797	Deep rooting of rainfed and irrigated orange trees in Brazil. <i>Trees - Structure and Function</i> , 2017, 31, 285-297.	0.9	10
798	Disentangling interactions between microbial communities and roots in deep subsoil. <i>Science of the Total Environment</i> , 2017, 575, 135-145.	3.9	26
799	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
800	Mapping and understanding dry season soil water drawdown by California montane vegetation. <i>Ecohydrology</i> , 2017, 10, e1772.	1.1	25
801	Ecosystem carbon density and allocation across a chronosequence of longleaf pine forests. <i>Ecological Applications</i> , 2017, 27, 244-259.	1.8	40
802	Contrasting strategies of hydraulic control in two codominant temperate tree species. <i>Ecohydrology</i> , 2017, 10, e1815.	1.1	102
803	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
804	Coexistence of Deciduous and Evergreen Oak Species in Mediterranean Environments: Costs Associated with the Leaf and Root Traits of Both Habits. <i>Tree Physiology</i> , 2017, , 195-237.	0.9	10
805	A strontium isotope and trace element geochemical study of dolomite-bearing bentonite deposits in Bavaria (Germany). <i>Clay Minerals</i> , 2017, 52, 161-190.	0.2	6
806	A groundwater ecosystem classification - the next steps. <i>International Journal of Water</i> , 2017, 11, 328.	0.1	2
808	Global Analysis of Bioclimatic Controls on Ecosystem Productivity Using Satellite Observations of Solar-Induced Chlorophyll Fluorescence. <i>Remote Sensing</i> , 2017, 9, 530.	1.8	55
809	Effect of National-Scale Afforestation on Forest Water Supply and Soil Loss in South Korea, 1971â€”2010. <i>Sustainability</i> , 2017, 9, 1017.	1.6	41
810	Application of WEHY-HCM for Modeling Interactive Atmospheric-Hydrologic Processes at Watershed Scale to a Sparsely Gauged Watershed. <i>Sustainability</i> , 2017, 9, 1554.	1.6	6
811	Daily Based Morganâ€”Morganâ€”Finney (DMMF) Model: A Spatially Distributed Conceptual Soil Erosion Model to Simulate Complex Soil Surface Configurations. <i>Water (Switzerland)</i> , 2017, 9, 278.	1.2	14
812	Reviews and syntheses: on the roles trees play in building and plumbing the critical zone. <i>Biogeosciences</i> , 2017, 14, 5115-5142.	1.3	130
816	Cover Crop Development Related to Nitrate Uptake and Cumulative Temperature. <i>Crop Science</i> , 2017, 57, 971-982.	0.8	7

#	ARTICLE	IF	CITATIONS
817	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
818	Fine Root Dynamics in Afromontane Forest and Adjacent Land Uses in the Northwest Ethiopian Highlands. <i>Forests</i> , 2017, 8, 249.	0.9	14
819	Water uptake can occur through woody portions of roots and facilitates localized embolism repair in grapevine. <i>New Phytologist</i> , 2018, 218, 506-516.	3.5	28
820	Applying a hydrogeomorphic channel classification to understand spatial patterns in riparian vegetation. <i>Journal of Vegetation Science</i> , 2018, 29, 550-559.	1.1	6
821	Optimized Application of Biomeâ€BGC for Modeling the Daily GPP of Natural Vegetation Over Peninsular Spain. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 531-546.	1.3	15
822	Hydrologic reinforcement induced by contrasting woody species during summer and winter. <i>Plant and Soil</i> , 2018, 427, 369-390.	1.8	23
823	Impacts of land-use and land-cover change on stream hydrochemistry in the Cerrado and Amazon biomes. <i>Science of the Total Environment</i> , 2018, 635, 259-274.	3.9	35
824	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
825	Convergent evidence for widespread rock nitrogen sources in Earthâ€™s surface environment. <i>Science</i> , 2018, 360, 58-62.	6.0	166
826	Genetic Mechanisms Involved in the Formation of Root System Architecture. , 2018, , 241-274.		14
827	Modeling Subsurface Hydrology in Floodplains. <i>Water Resources Research</i> , 2018, 54, 1428-1459.	1.7	5
828	Reliance on deep soil water in the tree species <i>Argania spinosa</i> . <i>Tree Physiology</i> , 2018, 38, 678-689.	1.4	31
829	Joint Management of an Interconnected Coastal Aquifer and Invasive Tree. <i>Ecological Economics</i> , 2018, 146, 125-135.	2.9	5
830	Grazing alters net ecosystem C fluxes and the global warming potential of a subtropical pasture. <i>Ecological Applications</i> , 2018, 28, 557-572.	1.8	23
831	Fine Mapping of <i>QUICK ROOTING 1</i> and <i>QUICK ROOTING 2</i> , Quantitative Trait Loci Increasing Root Length in Rice. <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 727-735.	0.8	25
832	Can a growth model be used to describe forest carbon and water balance after fuel reduction burning in temperate forests?. <i>Science of the Total Environment</i> , 2018, 615, 1000-1009.	3.9	7
833	Co-occurring woody species have diverse hydraulic strategies and mortality rates during an extreme drought. <i>Plant, Cell and Environment</i> , 2018, 41, 576-588.	2.8	118
834	A new multifactorial approach for studying intra-annual secondary growth dynamics in Mediterranean mixed forests: integrating biotic and abiotic interactions. <i>Canadian Journal of Forest Research</i> , 2018, 48, 333-344.	0.8	15

#	ARTICLE	IF	CITATIONS
835	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
836	Changes in soil hydraulic properties, soil moisture and water balance in <i>Acacia senegal</i> plantations of varying age in Sudan. <i>Journal of Arid Environments</i> , 2018, 150, 42-53.	1.2	13
837	Impact of floodwaters on vertical water fluxes in the deep vadose zone of an alluvial aquifer in a semi-arid region. <i>Hydrological Sciences Journal</i> , 2018, 63, 136-153.	1.2	5
838	Overstorey evapotranspiration in a seasonally dry Mediterranean eucalypt forest: Response to groundwater and mining. <i>Ecohydrology</i> , 2018, 11, e1971.	1.1	3
839	Where are we with whole regolith pedology? A comparative study from Brazil. <i>South African Journal of Plant and Soil</i> , 2018, 35, 251-261.	0.4	5
840	Novel 3D geometry and models of the lower regions of large trees for use in carbon accounting of primary forests. <i>AoB PLANTS</i> , 2018, 10, ply015.	1.2	5
841	Divergent phenological and leaf gas exchange strategies of two competing tree species drive contrasting responses to drought at their altitudinal boundary. <i>Tree Physiology</i> , 2018, 38, 1152-1165.	1.4	12
843	An ecohydrological stream type classification of intermittent and ephemeral streams in the southwestern United States. <i>Journal of Arid Environments</i> , 2018, 155, 16-35.	1.2	8
844	A Tier-I leaching risk assessment of three anticoagulant compounds in the forested areas of Hawai'i. <i>Science of the Total Environment</i> , 2018, 630, 889-902.	3.9	3
845	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
846	Subsurface water-use strategies and physiological responses of subtropical eucalypt woodland vegetation under changing water-availability conditions. <i>Agricultural and Forest Meteorology</i> , 2018, 248, 348-360.	1.9	13
847	Water use by broadleaved tree species in response to changes in precipitation in a mountainous area of Beijing. <i>Agriculture, Ecosystems and Environment</i> , 2018, 251, 132-140.	2.5	16
848	Basin-wide impacts of climate change on ecosystem services in the Lower Mekong Basin. <i>Ecological Research</i> , 2018, 33, 73-86.	0.7	40
849	Intercomparison of surface energy fluxes, soil moisture, and evapotranspiration from eddy covariance, large-aperture scintillometer, and modeling across three ecosystems in a semiarid climate. <i>Agricultural and Forest Meteorology</i> , 2018, 248, 22-47.	1.9	32
850	Aboveground carbon storage in tropical dry forest plots in Oaxaca, Mexico. <i>Forest Ecology and Management</i> , 2018, 409, 202-214.	1.4	19
851	Global diurnal and nocturnal parameters of stomatal conductance in woody plants and major crops. <i>Global Ecology and Biogeography</i> , 2018, 27, 257-275.	2.7	38
852	Remote-sensing-derived fractures and shrub patterns to identify groundwater dependence. <i>Ecohydrology</i> , 2018, 11, e1933.	1.1	13
853	Land use and climate change impacts on runoff and soil erosion at the hillslope scale in the Brazilian Cerrado. <i>Science of the Total Environment</i> , 2018, 622-623, 140-151.	3.9	125

#	ARTICLE	IF	CITATIONS
854	Stochastic, goal-oriented rapid impact modeling of uncertainty and environmental impacts in poorly-sampled sites using ex-situ priors. <i>Advances in Water Resources</i> , 2018, 111, 174-191.	1.7	19
855	Maize and wheat root biomass, vertical distribution, and size class as affected by fertilization intensity in two long-term field trials. <i>Field Crops Research</i> , 2018, 216, 197-208.	2.3	60
856	Maize and soybean root front velocity and maximum depth in Iowa, USA. <i>Field Crops Research</i> , 2018, 215, 122-131.	2.3	72
857	Spatial Heterogeneity of Typical Ecosystem Services and Their Relationships in Different Ecologicalâ€“Functional Zones in Beijingâ€“Tianjinâ€“Hebei Region, China. <i>Sustainability</i> , 2018, 10, 6.	1.6	20
858	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
859	Evaluating uncertainty in nonlinear hydrological models using VIC-3D model on the UmeÃƒ River basin. <i>International Journal of Water</i> , 2018, 12, 287.	0.1	0
860	Concepts in empirical plant ecology. <i>Plant Ecology and Diversity</i> , 2018, 11, 405-428.	1.0	37
861	Cropland Soil Salinization and Associated Hydrology: Trends, Processes and Examples. <i>Water (Switzerland)</i> , 2018, 10, 1030.	1.2	101
862	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
863	Multiple ecosystem services of monoculture and mixed plantations: A case study of the Huitong experimental forest of Southern China. <i>Land Use Policy</i> , 2018, 79, 717-724.	2.5	18
864	PCR-GLOBWBÃ2: a 5Ã‰%arcmin global hydrological and water resources model. <i>Geoscientific Model Development</i> , 2018, 11, 2429-2453.	1.3	307
865	Analyzing future water availability and hydrological extremes in the Krishna basin under changing climatic conditions. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	0.6	21
866	SizeÃ‰byÃ‰environment interactions: a neglected dimension of species' responses to environmental variation. <i>Ecology Letters</i> , 2018, 21, 1757-1770.	3.0	21
867	Natural regeneration on seismic lines influences movement behaviour of wolves and grizzly bears. <i>PLoS ONE</i> , 2018, 13, e0195480.	1.1	33
868	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
869	SMAP soil moisture improves global evapotranspiration. <i>Remote Sensing of Environment</i> , 2018, 219, 1-14.	4.6	131
870	Evaluating and improving the Community Land Model's sensitivity to land cover. <i>Biogeosciences</i> , 2018, 15, 4731-4757.	1.3	41
871	Soil organic carbon change relating to the prevention and control of rocky desertification in Guizhou Province, SW China. <i>International Journal of Global Warming</i> , 2018, 15, 315.	0.2	8



#	ARTICLE	IF	CITATIONS
872	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
873	Soil Water Extraction for Several Dryland Crops. <i>Agronomy Journal</i> , 2018, 110, 2447-2455.	0.9	18
874	Germanium in the soil-plant system—a review. <i>Environmental Science and Pollution Research</i> , 2018, 25, 31938-31956.	2.7	31
875	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
876	Examination of deep root water uptake using anomalies of soil water stable isotopes, depth-controlled isotopic labeling and mixing models. <i>Journal of Hydrology</i> , 2018, 566, 122-136.	2.3	67
877	Precrop Functional Group Identity Affects Yield of Winter Barley but Less so High Carbon Amendments in a Mesocosm Experiment. <i>Frontiers in Plant Science</i> , 2018, 9, 912.	1.7	3
878	Sensitivity of stomatal conductance to soil moisture: implications for tropospheric ozone. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 5747-5763.	1.9	39
879	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
880	Quantification of plant water uptake by water stable isotopes in rice paddy systems. <i>Plant and Soil</i> , 2018, 429, 281-302.	1.8	28
881	The biologically active zone in upland habitats at the Hanford Site, Washington, USA: Focus on plant rooting depth and biomobilization. <i>Integrated Environmental Assessment and Management</i> , 2018, 14, 442-446.	1.6	1
882	Multiscale Land–Atmosphere Coupling and Its Application in Assessing Subseasonal Forecasts over East Asia. <i>Journal of Hydrometeorology</i> , 2018, 19, 745-760.	0.7	22
883	Plant Communities as Modulators of Soil Carbon Storage. , 2018, , 29-71.		1
884	Rooting depth controls potential groundwater recharge on hillslopes. <i>Journal of Hydrology</i> , 2018, 564, 164-174.	2.3	65
885	Applying the ecohydrological equilibrium hypothesis to model root distribution in water-limited forests. <i>Ecohydrology</i> , 2018, 11, e2015.	1.1	15
886	Below ground carbon inputs to soil via root biomass and rhizodeposition of field-grown maize and wheat at harvest are independent of net primary productivity. <i>Agriculture, Ecosystems and Environment</i> , 2018, 265, 556-566.	2.5	77
887	The Effects of Dynamic Root Distribution on Land–Atmosphere Carbon and Water Fluxes in the Community Earth System Model (CESM1.2.0). <i>Forests</i> , 2018, 9, 172.	0.9	3
888	Additive Biomass Equations Based on Different Dendrometric Variables for Two Dominant Species ( <i>Larix gmelini</i> Rupr. and <i>Betula platyphylla</i> Suk.) in Natural Forests in the Eastern Daxing’an Mountains, Northeast China. <i>Forests</i> , 2018, 9, 261.	0.9	34
890	Water source niche overlap increases with site moisture availability in woody perennials. <i>Plant Ecology</i> , 2018, 219, 719-735.	0.7	23

#	ARTICLE	IF	CITATIONS
891	Characteristics of accumulated soil carbon and soil respiration in temperate deciduous forest and alpine pastureland. <i>Journal of Ecology and Environment</i> , 2018, 42, .	1.6	6
892	Simulating groundwater uptake and hydraulic redistribution by phreatophytes in a high-resolution, coupled subsurface-land surface model. <i>Advances in Water Resources</i> , 2018, 121, 245-262.	1.7	8
893	A New Approach to Modeling Water Balance in Nile River Basin, Africa. <i>Sustainability</i> , 2018, 10, 810.	1.6	12
894	The Effects of Tropical Vegetation on Rainfall. <i>Annual Review of Environment and Resources</i> , 2018, 43, 193-218.	5.6	87
895	Tree growth and water-use in hyper-arid <i>Acacia</i> occurs during the hottest and driest season. <i>Oecologia</i> , 2018, 188, 695-705.	0.9	23
896	<i>Agroforestry Systems</i> . , 2018, , 235-260.		3
897	Soil water content effects on net ecosystem CO <sub>2</sub> exchange and actual evapotranspiration in a Mediterranean semiarid savanna of Central Chile. <i>Scientific Reports</i> , 2018, 8, 8570.	1.6	25
898	Exploring dynamics of evapotranspiration in selected land cover classes in a sub-humid grassland: A case study in quaternary catchment S50E, South Africa. <i>Journal of Arid Environments</i> , 2018, 157, 66-76.	1.2	11
899	Recharge and Nitrate Transport Through the Deep Vadose Zone of the Loess Plateau: A Regional Scale Model Investigation. <i>Water Resources Research</i> , 2018, 54, 4332-4346.	1.7	73
900	Future vulnerability mapping based on response to extreme climate events: Dieback thresholds in an endemic California oak. <i>Diversity and Distributions</i> , 2018, 24, 1186-1198.	1.9	19
901	Stomatal behaviour and stem xylem traits are coordinated for woody plant species under exceptional drought conditions. <i>Plant, Cell and Environment</i> , 2018, 41, 2617-2626.	2.8	60
902	Hydrological niche segregation defines forest structure and drought tolerance strategies in a seasonal Amazon forest. <i>Journal of Ecology</i> , 2019, 107, 318-333.	1.9	133
903	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
904	Soil physical and hydraulic properties under different land uses in the black soil region of Northeast China. <i>Canadian Journal of Soil Science</i> , 2019, 99, 406-419.	0.5	21
905	GIS approach to estimate windbreak crop yield effects in Kansasâ€“Nebraska. <i>Agroforestry Systems</i> , 2019, 93, 1567-1576.	0.9	21
906	Recent Changes in the ISBAâ€“CTRIIP Land Surface System for Use in the CNRMâ€“CM6 Climate Model and in Global Offâ€“Line Hydrological Applications. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 1207-1252.	1.3	120
907	Plant Traits to Increase Winter Wheat Yield in Semiarid and Subhumid Environments. <i>Agronomy Journal</i> , 2019, 111, 1728-1740.	0.9	27
908	Decoupling of forest water supply and agricultural water demand attributable to deforestation in North Korea. <i>Journal of Environmental Management</i> , 2019, 248, 109256.	3.8	30

#	ARTICLE	IF	CITATIONS
909	Transpiration dynamics and water sources for selected indigenous trees under varying soil water content. <i>Agricultural and Forest Meteorology</i> , 2019, 275, 296-304.	1.9	6
910	Development and evaluation of a simple hydrologically based model for terrestrial evapotranspiration simulations. <i>Journal of Hydrology</i> , 2019, 577, 123928.	2.3	10
911	Ecohydrology of Interannual Changes in Watershed Storage. <i>Water Resources Research</i> , 2019, 55, 8238-8251.	1.7	21
912	Porosity production in weathered rock: Where volumetric strain dominates over chemical mass loss. <i>Science Advances</i> , 2019, 5, eaao0834.	4.7	52
913	The influence of water table depth on evapotranspiration in the Amazon arc of deforestation. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 3917-3931.	1.9	19
914	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
915	<i>Helianthus maximiliani</i> and species fine-scale spatial pattern affect diversity interactions in reconstructed tallgrass prairies. <i>Ecology and Evolution</i> , 2019, 9, 12171-12181.	0.8	5
916	Variation in Carbon Concentration and Allometric Equations for Estimating Tree Carbon Contents of 10 Broadleaf Species in Natural Forests in Northeast China. <i>Forests</i> , 2019, 10, 928.	0.9	8
917	Fungal Communities Resist Recovery in Sand Mine Restoration. <i>Frontiers in Forests and Global Change</i> , 2019, 2, .	1.0	11
918	Mechanical and Hydric Stress Effects on Maize Root System Development at Different Soil Compaction Levels. <i>Frontiers in Plant Science</i> , 2019, 10, 1358.	1.7	21
919	Assessing Vegetation Composition and the Indicator Species Around Water Source Areas in a Pine Forest Plantation: A Case Study from Watujali and Silengkong Catchments, Kebumen, Indonesia. <i>Forests</i> , 2019, 10, 825.	0.9	8
920	Mapping the suitability of groundwater-dependent vegetation in a semi-arid Mediterranean area. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 3525-3552.	1.9	12
921	Distribution of tree species around springs and trees-springs interplay possibility in the springs area of Soloraya, Central Java, Indonesia. <i>Forest Science and Technology</i> , 2019, 15, 128-139.	0.3	4
922	Satellite Observations of the Contrasting Response of Trees and Grasses to Variations in Water Availability. <i>Geophysical Research Letters</i> , 2019, 46, 1429-1440.	1.5	61
923	How do climate change experiments alter plot-scale climate?. <i>Ecology Letters</i> , 2019, 22, 748-763.	3.0	39
924	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
925	Importance of root uptake of $^{14}\text{CO}_2$ on $^{14}\text{C}$ 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
926	Spatial and temporal variability of groundwater recharge in a sandstone aquifer in a semiarid region. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 2187-2205.	1.9	19

#	ARTICLE	IF	CITATIONS
927	Effects of agricultural landscapes and land uses in highly biodiverse tropical streams of the Ecuadorian Choco. <i>Inland Waters</i> , 2019, 9, 289-300.	1.1	12
928	Land Use and Land Cover Scenarios for Optimum Water Yield and Sediment Retention Ecosystem Services in Klong U-Tapao Watershed, Songkhla, Thailand. <i>Sustainability</i> , 2019, 11, 2895.	1.6	23
929	Invasion and drought alter phenological sensitivity and synergistically lower ecosystem production. <i>Ecology</i> , 2019, 100, e02802.	1.5	14
930	Hydrological trade-offs due to different land covers and land uses in the Brazilian Cerrado. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 1263-1279.	1.9	36
931	Global joint assimilation of GRACE and SMOS for improved estimation of root-zone soil moisture and vegetation response. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 1067-1081.	1.9	34
932	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
933	The strength of soil-plant interactions under forest is related to a Critical Soil Depth. <i>Scientific Reports</i> , 2019, 9, 8635.	1.6	30
934	Hydrological impacts of afforestation in the semiarid Patagonia: A modelling approach. <i>Ecohydrology</i> , 2019, 12, e2113.	1.1	14
935	Tailoring restoration interventions to the grassland-savanna-forest complex in central Brazil. <i>Restoration Ecology</i> , 2019, 27, 942-948.	1.4	27
936	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
937	Explaining the hydrological behaviour of facultative phreatophytes using a multi-variable and multi-objective modelling approach. <i>Journal of Hydrology</i> , 2019, 575, 395-407.	2.3	11
938	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
939	Consequences of clear-cutting and drought on fine root dynamics down to 17m in coppice-managed eucalypt plantations. <i>Forest Ecology and Management</i> , 2019, 445, 48-59.	1.4	19
940	The effect of oil sludge contamination on morphological and physiological characteristics of some tree species. <i>Ecotoxicology</i> , 2019, 28, 507-519.	1.1	11
941	Rock crevices determine woody and herbaceous plant cover in the karst critical zone. <i>Science China Earth Sciences</i> , 2019, 62, 1756-1763.	2.3	35
942	Elucidating controls of the variability of deep soil bulk density. <i>Geoderma</i> , 2019, 348, 146-157.	2.3	45
943	Boundary Setting for Ecosystem Services by Factor Analysis. <i>International Review for Spatial Planning and Sustainable Development</i> , 2019, 7, 21-35.	0.6	2
944	Forests as “sponges” and “pumps”: Assessing the impact of deforestation on dry-season flows across the tropics. <i>Journal of Hydrology</i> , 2019, 574, 946-963.	2.3	60

#	ARTICLE	IF	CITATIONS
945	Evergreenness influences fine root growth more than tree diversity in a common garden experiment. <i>Oecologia</i> , 2019, 189, 1027-1039.	0.9	15
946	Ecosystem Service Flow Insights into Horizontal Ecological Compensation Standards for Water Resource: A Case Study in Dongjiang Lake Basin, China. <i>Chinese Geographical Science</i> , 2019, 29, 214-230.	1.2	40
947	Use of remote sensing and long-term in-situ time-series data in an integrated hydrological model of the Central Kalahari Basin, Southern Africa. <i>Hydrogeology Journal</i> , 2019, 27, 1541-1562.	0.9	18
948	Deep soil water extraction by apple sequesters organic carbon via root biomass rather than altering soil organic carbon content. <i>Science of the Total Environment</i> , 2019, 670, 662-671.	3.9	76
949	Uncertainty and hotspots in 21st century projections of agricultural drought from CMIP5 models. <i>Scientific Reports</i> , 2019, 9, 4922.	1.6	67
950	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
951	Unifying soil organic matter formation and persistence frameworks: the MEMS model. <i>Biogeosciences</i> , 2019, 16, 1225-1248.	1.3	81
952	A framework for increasing sustainability and reducing risk to ecological resources through integration of remediation planning and implementation. <i>Environmental Research</i> , 2019, 172, 586-595.	3.7	16
953	Response of plants water uptake patterns to tunnels excavation based on stable isotopes in a karst trough valley. <i>Journal of Hydrology</i> , 2019, 571, 485-493.	2.3	48
954	Tree size and leaf traits determine the fertility island effect in <i>Prosopis pallida</i> dryland forest in Northern Peru. <i>Plant and Soil</i> , 2019, 437, 117-135.	1.8	20
956	Terrestrial Biosphere Models. , 2019, , 1-24.		4
957	Quantitative Description of Ecosystems. , 2019, , 25-39.		0
958	Fundamentals of Energy and Mass Transfer. , 2019, , 40-52.		0
959	Mathematical Formulation of Biological Flux Rates. , 2019, , 53-63.		0
960	Soil Temperature. , 2019, , 64-79.		1
961	Turbulent Fluxes and Scalar Profiles in the Surface Layer. , 2019, , 80-100.		2
962	Surface Energy Fluxes. , 2019, , 101-114.		1
963	Soil Moisture. , 2019, , 115-133.		0

#	ARTICLE	IF	CITATIONS
964	Hydrologic Scaling and Spatial Heterogeneity. , 2019, , 134-151.		0
965	Leaf Temperature and Energy Fluxes. , 2019, , 152-166.		0
966	Leaf Photosynthesis. , 2019, , 167-188.		2
967	Stomatal Conductance. , 2019, , 189-212.		1
968	Plant Hydraulics. , 2019, , 213-227.		2
969	Radiative Transfer. , 2019, , 228-259.		1
970	Plant Canopies. , 2019, , 260-279.		0
971	Scalar Canopy Profiles. , 2019, , 280-300.		0
972	Biogeochemical Models. , 2019, , 301-321.		0
973	Soil Biogeochemistry. , 2019, , 322-343.		0
974	Vegetation Demography. , 2019, , 344-364.		1
975	Canopy Chemistry. , 2019, , 365-380.		0
979	Linkages between Phosphorus and Plant Diversity in Central European Forest Ecosystemsâ€”Complementarity or Competition?. Forests, 2019, 10, 1156.	0.9	10
980	A Transdisciplinary Approach to Characterize Hydrological Controls on Groundwater-Dependent Ecosystem Health. Frontiers in Environmental Science, 2019, 7, .	1.5	9
981	Watershed Reactive Transport. Reviews in Mineralogy and Geochemistry, 2019, 85, 381-418.	2.2	31
982	Towards a deeper integrated multi-omics approach in the root system to develop climate-resilient rice. Molecular Breeding, 2019, 39, 1.	1.0	15
983	Mapping at 30 m Resolution of Soil Attributes at Multiple Depths in Midwest Brazil. Remote Sensing, 2019, 11, 2905.	1.8	27
984	Temperate forests and soils. Developments in Soil Science, 2019, 36, 83-108.	0.5	18

#	ARTICLE	IF	CITATIONS
985	13. Watershed Reactive Transport. , 2019, , 381-418.		6
986	A comprehensive analysis of interseasonal and interannual energy and water balance dynamics in semiarid shrubland and forest ecosystems. <i>Science of the Total Environment</i> , 2019, 651, 381-398.	3.9	11
987	Iron cycling and isotope fractionation in terrestrial ecosystems. <i>Earth-Science Reviews</i> , 2019, 190, 323-352.	4.0	62
988	C 4 savanna grasses fail to maintain assimilation in drying soil under low CO 2 compared with C 3 trees despite lower leaf water demand. <i>Functional Ecology</i> , 2019, 33, 388-398.	1.7	10
989	Spatial variability in shrub vegetation across dune forms in central Saudi Arabia. <i>Journal of Arid Environments</i> , 2019, 161, 72-84.	1.2	9
990	Water mining from the deep critical zone by apple trees growing on loess. <i>Hydrological Processes</i> , 2019, 33, 320-327.	1.1	96
991	Estimation of water provision service for monsoon catchments of South China: Applicability of the InVEST model. <i>Landscape and Urban Planning</i> , 2019, 182, 133-143.	3.4	182
992	Water as a resource, stress and disturbance shaping tundra vegetation. <i>Oikos</i> , 2019, 128, 811-822.	1.2	34
993	Effects of soil process formalisms and forcing factors on simulated organic carbon depth-distributions in soils. <i>Science of the Total Environment</i> , 2019, 652, 523-537.	3.9	16
994	Assessment of geostatistical methods for spatiotemporal analysis of drought patterns in East Texas, USA. <i>Spatial Information Research</i> , 2019, 27, 11-21.	1.3	11
995	Exploring management objectives and ecosystem service trade-offs in a semi-arid rangeland basin in southeast Iran. <i>Ecological Indicators</i> , 2019, 98, 794-803.	2.6	25
996	Investigating equid mobility in Miocene Florida, USA using strontium isotope ratios. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 516, 232-243.	1.0	9
997	Sequestration of atmospheric carbon dioxide as inorganic carbon in the unsaturated zone under semi-arid forests. <i>Catena</i> , 2019, 173, 93-98.	2.2	26
998	Rooting big and deep rapidly: the ecological roots of pine species distribution in southern Europe. <i>Trees - Structure and Function</i> , 2019, 33, 293-303.	0.9	24
999	Roots point to water sources of <i>Welwitschia mirabilis</i> in a hyperarid desert. <i>Ecohydrology</i> , 2019, 12, e2039.	1.1	16
1000	Vadose Zone Hydrology Basics. <i>Springer Hydrogeology</i> , 2020, , 43-62.	0.1	0
1001	Modelling the seismic performance of root-reinforced slopes using the finite-element method. <i>Geotechnique</i> , 2020, 70, 375-391.	2.2	15
1002	Forest governance and economic values of forest ecosystem services in Vietnam. <i>Land Use Policy</i> , 2020, 97, 103297.	2.5	18

#	ARTICLE	IF	CITATIONS
1003	High-energy inundation events versus long-term coastal processes – room for misinterpretation. <i>Sedimentology</i> , 2020, 67, 1460-1480.	1.6	7
1004	Thinning enhances stool resistance to an extreme drought in a Mediterranean <i>Quercus ilex</i> L. coppice: insights for adaptation. <i>New Forests</i> , 2020, 51, 597-613.	0.7	6
1005	Conceptual Framework, Paradigms, and Models. , 2020, , 1-20.		2
1006	Ecosystem services of a functionally diverse riparian zone in the Amazon – Cerrado agricultural frontier. <i>Global Ecology and Conservation</i> , 2020, 21, e00819.	1.0	19
1007	Lead transfer into the vegetation layer growing naturally in a Pb-contaminated site. <i>Environmental Geochemistry and Health</i> , 2020, 42, 2321-2329.	1.8	6
1008	The role of deep vadose zone water in tree transpiration during drought periods in karst settings – Insights from isotopic tracing and leaf water potential. <i>Science of the Total Environment</i> , 2020, 699, 134332.	3.9	43
1009	Transpiration and growth of young African mahogany plants subject to different water regimes. <i>International Journal of Biometeorology</i> , 2020, 64, 1-13.	1.3	4
1010	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
1011	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
1012	Quantification of different silicon fractions in broadleaf and conifer forests of northern China and consequent implications for biogeochemical Si cycling. <i>Geoderma</i> , 2020, 361, 114036.	2.3	18
1013	Influence of grass roots on shear strength of pyroclastic soils. <i>Canadian Geotechnical Journal</i> , 2020, 57, 1320-1334.	1.4	25
1014	Karst recharge-discharge semi distributed model to assess spatial variability of flows. <i>Science of the Total Environment</i> , 2020, 703, 134368.	3.9	38
1015	Increased water yield and altered water partitioning follow wildfire in a forested catchment in the western United States. <i>Ecohydrology</i> , 2020, 13, e2170.	1.1	18
1016	Soil biodiversity and biogeochemical function in managed ecosystems. <i>Soil Research</i> , 2020, 58, 1.	0.6	28
1017	Drivers of habitat partitioning among three <i>Quercus</i> species along a hydrologic gradient. <i>Tree Physiology</i> , 2020, 40, 142-157.	1.4	2
1018	Hydrological effects of tree invasion on a dry coastal Hawaiian ecosystem. <i>Forest Ecology and Management</i> , 2020, 458, 117653.	1.4	4
1019	Uptake of subsoil water below 2 m fails to alleviate drought response in deep-rooted Chicory ( <i>Cichorium intybus</i> L.). <i>Plant and Soil</i> , 2020, 446, 275-290.	1.8	30
1020	On the importance of root traits in seedlings of tropical tree species. <i>New Phytologist</i> , 2020, 227, 156-167.	3.5	35



#	ARTICLE	IF	CITATIONS
1021	Evaluation of satellite rainfall products for modeling water yield over the source region of Blue Nile Basin. <i>Science of the Total Environment</i> , 2020, 708, 134834.	3.9	45
1022	Variations in capacity and storage of plant-available water in deep profiles along a revegetation and precipitation gradient. <i>Journal of Hydrology</i> , 2020, 581, 124401.	2.3	21
1023	Applying satellite-derived evapotranspiration rates to estimate the impact of vegetation on regional groundwater flux. <i>Ecohydrology</i> , 2020, 13, e2172.	1.1	8
1024	Hydraulic traits that buffer deep-rooted plants from changes in hydrology and climate. <i>Hydrological Processes</i> , 2020, 34, 209-222.	1.1	34
1025	Mineral Nutrients Sourced in Deep Regolith Sustain Long-Term Nutrition of Mountainous Temperate Forest Ecosystems. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006513.	1.9	35
1026	The density of anthropogenic features explains seasonal and behaviour-based functional responses in selection of linear features by a social predator. <i>Scientific Reports</i> , 2020, 10, 11437.	1.6	6
1027	The response of soil respiration to precipitation change is asymmetric and differs between grasslands and forests. <i>Global Change Biology</i> , 2020, 26, 6015-6024.	4.2	45
1028	Examining assumptions of soil microbial ecology in the monitoring of ecological restoration. <i>Ecological Solutions and Evidence</i> , 2020, 1, e12031.	0.8	20
1029	Water use of <i>Salix</i> in the variably unsaturated zone of a semiarid desert region based on in-situ observation. <i>Journal of Hydrology</i> , 2020, 591, 125579.	2.3	17
1030	Impacts of Land Use Changes on Wetland Ecosystem Services in the Tumen River Basin. <i>Sustainability</i> , 2020, 12, 9821.	1.6	17
1031	A handbook for the standardised sampling of plant functional traits in disturbance-prone ecosystems, with a focus on open ecosystems. <i>Australian Journal of Botany</i> , 2020, 68, 473.	0.3	38
1032	Integrating the InVEST and SDSM Model for Estimating Water Provision Services in Response to Future Climate Change in Monsoon Basins of South China. <i>Water (Switzerland)</i> , 2020, 12, 3199.	1.2	7
1033	Phosphorus enrichment in floodplain subsoils as a potential source of freshwater eutrophication. <i>Science of the Total Environment</i> , 2020, 747, 141213.	3.9	19
1034	Enhancement of infiltration rate of clogged porous beds in the vicinity of dams in arid zones by the roots of indigenous <i>Ziziphus spina-christ</i> trees. <i>Hydrological Processes</i> , 2020, 34, 4226-4238.	1.1	4
1035	Snowmelt causes different limitations on transpiration in a Sierra Nevada conifer forest. <i>Agricultural and Forest Meteorology</i> , 2020, 291, 108089.	1.9	21
1036	Root sap flow as a tool to establish hydrological thresholds for plant growth and survival. <i>Agricultural Water Management</i> , 2020, 241, 106388.	2.4	5
1037	Constraining water age dynamics in a southeastern Australian catchment using an age-ranked storage and stable isotope approach. <i>Hydrological Processes</i> , 2020, 34, 4384-4403.	1.1	8
1038	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

#	ARTICLE	IF	CITATIONS
1039	Post-seismic monitoring of cliff mass wasting using an unmanned aerial vehicle and field data at Egremni, Lefkada Island, Greece. <i>Geomorphology</i> , 2020, 367, 107306.	1.1	27
1040	Biogeochemical cycling of phosphorus in subsoils of temperate forest ecosystems. <i>Biogeochemistry</i> , 2020, 150, 313-328.	1.7	17
1041	Hydrogen isotope fractionation in modern plants along a boreal-tundra transect in Alaska. <i>Organic Geochemistry</i> , 2020, 147, 104064.	0.9	13
1042	Deforestation and reforestation impacts on soils in the tropics. <i>Nature Reviews Earth &amp; Environment</i> , 2020, 1, 590-605.	12.2	121
1043	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
1044	An Integrative Ecological Drought Framework to Span Plant Stress to Ecosystem Transformation. <i>Ecosystems</i> , 2021, 24, 739-754.	1.6	22
1045	Contrasting CO <sub>2</sub> and water vapour fluxes in dry forest and pasture sites of central Argentina. <i>Ecohydrology</i> , 2020, 13, e2244.	1.1	7
1046	Wetland Ecosystem Service Dynamics in the Yellow River Estuary Under Natural and Anthropogenic Stress in the Past 35 Years. <i>Wetlands</i> , 2020, 40, 2741-2754.	0.7	18
1047	Using a Trait-Based Approach to Compare Tree Species Sensitivity to Climate Change Stressors in Eastern Canada and Inform Adaptation Practices. <i>Forests</i> , 2020, 11, 989.	0.9	22
1048	Adaptation and coordinated evolution of plant hydraulic traits. <i>Ecology Letters</i> , 2020, 23, 1599-1610.	3.0	58
1049	Impact of Urban Canopy Parameters on a Megacity's Modelled Thermal Environment. <i>Atmosphere</i> , 2020, 11, 1349.	1.0	32
1052	Oak Transpiration Drawn From the Weathered Bedrock Vadose Zone in the Summer Dry Season. <i>Water Resources Research</i> , 2020, 56, e2020WR027419.	1.7	37
1053	Multi-isotope approach ( <sup>44</sup> Ca/ <sup>40</sup> Ca, <sup>88</sup> Sr/ <sup>86</sup> Sr and <sup>87</sup> Sr/ <sup>86</sup> Sr) provides insights into rhizolith formation mechanisms in terrestrial sediments of Nussloch (Germany). <i>Chemical Geology</i> , 2020, 545, 119641.	1.4	6
1054	Increasing leaf <sup>13</sup> C values of woody plants in response to water stress induced by tunnel excavation in a karst trough valley: Implication for improving water-use efficiency. <i>Journal of Hydrology</i> , 2020, 586, 124895.	2.3	28
1055	Mapping the Distribution of Shallow Groundwater Occurrences Using Remote Sensing-Based Statistical Modeling over Southwest Saudi Arabia. <i>Remote Sensing</i> , 2020, 12, 1361.	1.8	36
1056	The Global Land Carbon Cycle Simulated With ISBA-CTRIP: Improvements Over the Last Decade. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001886.	1.3	42
1057	High water use in desert plants exposed to extreme heat. <i>Ecology Letters</i> , 2020, 23, 1189-1200.	3.0	59
1058	Modeling salt redistribution and plant growth in reclaimed saline-sodic overburden upland forests: A case study from the Athabasca Oil Sands Region, Canada. <i>Forest Ecology and Management</i> , 2020, 472, 118154.	1.4	5

#	ARTICLE	IF	CITATIONS
1059	Remote-Sensing-Based Water Balance for Monitoring of Evapotranspiration and Water Stress of a Mediterranean Oakâ€“Grass Savanna. <i>Water</i> (Switzerland), 2020, 12, 1418.	1.2	9
1060	Influence of Flood Waves, Production Wells, and Precipitation on Shallow Groundwater Using a Linear Regression Model Approach Based on a Case Study of Mohács Island, Hungary. <i>Water</i> (Switzerland), 2020, 12, 1359.	1.2	1
1061	Seasonal effects of intercropping on tree water use strategies in semiarid plantations: Evidence from natural and labelling stable isotopes. <i>Plant and Soil</i> , 2020, 453, 229-243.	1.8	18
1062	Climate Change May Increase the Drought Stress of Mesophytic Trees Downslope With Ongoing Forest Mesophication Under a History of Fire Suppression. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	1.0	10
1063	Ability of green cover from sainfoin ( <i>Onobrychis viciifolia</i> Scop.) and dog rose ( <i>Rosa canina</i> L.) to control erosion and improve soil organic carbon and nitrogen stocks in terraces of Northwest Turkey. <i>Euro-Mediterranean Journal for Environmental Integration</i> , 2020, 5, 1.	0.6	1
1064	Spatiotemporal Changes in Ecosystem Services along a Urban-Rural-Natural Gradient: A Case Study of Xiâ€™an, China. <i>Sustainability</i> , 2020, 12, 1133.	1.6	6
1065	Assessing the reliability of predicted plant trait distributions at the global scale. <i>Global Ecology and Biogeography</i> , 2020, 29, 1034-1051.	2.7	36
1066	Root vertical distributions of two <i>Artemisia</i> species and their relationships with soil resources in the Hunshandake desert, China. <i>Ecology and Evolution</i> , 2020, 10, 3112-3119.	0.8	5
1067	Oxygen migration through a cover with capillary barrier effects colonized by roots. <i>Canadian Geotechnical Journal</i> , 2020, 57, 1903-1914.	1.4	13
1068	On the sensitivity of modelled groundwater recharge estimates to rain gauge network scale. <i>Journal of Hydrology</i> , 2020, 585, 124741.	2.3	5
1069	The overlooked soil carbon under large, old trees. <i>Geoderma</i> , 2020, 376, 114541.	2.3	8
1070	Soil thawing regulates the spring growth onset in tundra and alpine biomes. <i>Science of the Total Environment</i> , 2020, 742, 140637.	3.9	16
1071	Self-organizing map of soil properties in the context of hydrological modeling. <i>Applied Mathematical Modelling</i> , 2020, 88, 175-189.	2.2	10
1072	Climate change in northern Patagonia: critical decrease in water resources. <i>Theoretical and Applied Climatology</i> , 2020, 140, 807-822.	1.3	43
1073	Persistent anthropogenic legacies structure depth dependence of regenerating rooting systems and their functions. <i>Biogeochemistry</i> , 2020, 147, 259-275.	1.7	10
1074	Soil, regolith, and weathered rock: Theoretical concepts and evolution in old-growth temperate forests, Central Europe. <i>Geoderma</i> , 2020, 368, 114261.	2.3	13
1075	Integrated modelling to assess climate change impacts on groundwater and surface water in the Great Lakes Basin using diverse climate forcing. <i>Journal of Hydrology</i> , 2020, 584, 124682.	2.3	31
1076	Impacts of Climate Change and Different Crop Rotation Scenarios on Groundwater Nitrate Concentrations in a Sandy Aquifer. <i>Sustainability</i> , 2020, 12, 1153.	1.6	13

#	ARTICLE	IF	CITATIONS
1077	A Simple Method to Identify Potential Groundwater-Dependent Vegetation Using NDVI MODIS. <i>Forests</i> , 2020, 11, 147.	0.9	22
1078	An Examination of the Foundations of Mega-Flora: Implications for Biomimetic Geotechnics. , 2020, , .		0
1079	Partitioning the impacts of land use/land cover change and climate variability on water supply over the source region of the Blue Nile Basin. <i>Land Degradation and Development</i> , 2020, 31, 2168-2184.	1.8	24
1080	Fully integrated and physically-based approach for simulating water flows in a large-scale, heavily-agricultural and low-instrumented watershed. <i>Journal of Hydrology</i> , 2020, 586, 124781.	2.3	3
1081	Weather underground: Subsurface hydrologic processes mediate tree vulnerability to extreme climatic drought. <i>Global Change Biology</i> , 2020, 26, 3091-3107.	4.2	35
1082	Hydro-mechanical reinforcement of contrasting woody species: a full-scale investigation of a field slope. <i>Geotechnique</i> , 2021, 71, 970-984.	2.2	19
1083	Digging Deeper for Agricultural Resources, the Value of Deep Rooting. <i>Trends in Plant Science</i> , 2020, 25, 406-417.	4.3	127
1084	Drought Impacts on Australian Vegetation During the Millennium Drought Measured With Multisource Spaceborne Remote Sensing. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2020, 125, e2019JC005145.	1.3	20
1085	Caribou in the cross-fire? Considering terrestrial lichen forage in the face of mountain pine beetle ( <i>Dendroctonus ponderosae</i> ) expansion. <i>PLoS ONE</i> , 2020, 15, e0232248.	1.1	7
1086	Water Table Depth and Bedrock Permeability Control Magnitude and Timing of Transpiration-Induced Diel Fluctuations in Groundwater. <i>Water Resources Research</i> , 2020, 56, e2019WR025967.	1.7	16
1087	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
1088	Riparian vegetation as an indicator of stream channel presence and connectivity in arid environments. <i>Journal of Arid Environments</i> , 2020, 178, 104167.	1.2	15
1089	A macroscopic soil-water transport model to simulate root water uptake in the presence of water and disease stress. <i>Journal of Hydrology</i> , 2020, 587, 124940.	2.3	16
1090	Soil Color and Mineralogy Mapping Using Proximal and Remote Sensing in Midwest Brazil. <i>Remote Sensing</i> , 2020, 12, 1197.	1.8	25
1091	Grounding urban resilience through transdisciplinary risk mapping. <i>Urban Transformations</i> , 2020, 2, .	1.5	5
1092	Tamm Review: Deep fine roots in forest ecosystems: Why dig deeper?. <i>Forest Ecology and Management</i> , 2020, 466, 118135.	1.4	62
1093	Stocking effects on seasonal tree transpiration and ecosystem water balance in a fast-growing Eucalyptus plantation in Brazil. <i>Forest Ecology and Management</i> , 2020, 466, 118149.	1.4	25
1094	Implementing Dynamic Rooting Depth for Improved Simulation of Soil Moisture and Land Surface Feedbacks in Noah-Crop. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001786.	1.3	15

#	ARTICLE	IF	CITATIONS
1095	Driving factors of community-level plant functional traits and species distributions in the desert-wetland ecosystem of the Shule River Basin, China. <i>Land Degradation and Development</i> , 2021, 32, 323-337.	1.8	13
1096	Groundwater contribution to transpiration of trees under wet and dry soil conditions*. <i>Irrigation and Drainage</i> , 2021, 70, 42-51.	0.8	1
1097	Woody plant growth increases with precipitation intensity in a cold semiarid system. <i>Ecology</i> , 2021, 102, e03212.	1.5	17
1098	Understanding interactions among climate, water, and vegetation with the Budyko framework. <i>Earth-Science Reviews</i> , 2021, 212, 103451.	4.0	81
1099	Temporal and Spatial Assessment of Supply and Demand of the Water-yield Ecosystem Service for Water Scarcity Management in Arid to Semi-arid Ecosystems. <i>Water Resources Management</i> , 2021, 35, 63-82.	1.9	31
1100	The phosphorus status of German cropland—An inventory of top- and subsoils. <i>Journal of Plant Nutrition and Soil Science</i> , 2021, 184, 51-64.	1.1	9
1101	Precipitation dominates the transpiration of both the economic forest ( <i>Malus pumila</i> ) and ecological forest ( <i>Robinia pseudoacacia</i> ) on the Loess Plateau after about 15 years of water depletion in deep soil. <i>Agricultural and Forest Meteorology</i> , 2021, 297, 108244.	1.9	38
1102	Probabilistic estimation of root cohesion in regards to intra-specific variability of root system. <i>Catena</i> , 2021, 196, 104898.	2.2	0
1103	Origin of carbon in agricultural soil profiles deduced from depth gradients of C:N ratios, carbon fractions, $\delta^{13}C$ and $\delta^{15}N$ values. <i>Plant and Soil</i> , 2021, 460, 123-148.	1.8	16
1104	Permafrost Promotes Shallow Groundwater Flow and Warmer Headwater Streams. <i>Water Resources Research</i> , 2021, 57, e2020WR027463.	1.7	31
1105	Using botanic gardens and arboreta to help identify urban trees for the future. <i>Plants People Planet</i> , 2021, 3, 182-193.	1.6	22
1106	Toward catchment hydro- and biogeochemical theories. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021, 8, e1495.	2.8	65
1107	The greater resilience of mixed forests to drought mainly depends on their composition: Analysis along a climate gradient across Europe. <i>Forest Ecology and Management</i> , 2021, 481, 118687.	1.4	104
1108	Decoupling the Complementarity Effect and the Selection Effect on the Overyielding of Fine Root Production Along a Tree Species Richness Gradient in Subtropical Forests. <i>Ecosystems</i> , 2021, 24, 613-627.	1.6	4
1110	Multiple stages of plant root calcification deciphered by chemical and micromorphological analyses. <i>Geobiology</i> , 2021, 19, 75-86.	1.1	5
1111	Hydrogeological investigation of soil salinity adjacent to a flood protection infrastructure. <i>Environmental Earth Sciences</i> , 2021, 80, .	1.3	2
1112	Spatial variation in soil microbial processes as a result of woody encroachment depends on shrub size in tallgrass prairie. <i>Plant and Soil</i> , 2021, 460, 359-373.	1.8	8
1113	Consistent trait-environment relationships within and across tundra plant communities. <i>Nature Ecology and Evolution</i> , 2021, 5, 458-467.	3.4	25

#	ARTICLE	IF	CITATIONS
1114	Time- and depth-resolved mechanistic assessment of water stress in Australian ecosystems under the CMIP6 scenarios. <i>Advances in Water Resources</i> , 2021, 148, 103837.	1.7	4
1115	Surface mines show little progress towards native species forest restoration following 35% years of passive management after initial reclamation. <i>Land Degradation and Development</i> , 2021, 32, 2351-2359.	1.8	9
1116	Evaluating the Urban Canopy Scheme TERRA_URB in the COSMO Model for Selected European Cities. <i>Atmosphere</i> , 2021, 12, 237.	1.0	17
1117	Previous drought exposure leads to greater drought resistance in eucalypts through changes in morphology rather than physiology. <i>Tree Physiology</i> , 2021, 41, 1186-1198.	1.4	26
1119	High resolution middle eastern soil attributes mapping via open data and cloud computing. <i>Geoderma</i> , 2021, 385, 114890.	2.3	30
1120	Spatiotemporal variation and driving factors of water yield services on the Qingzang Plateau. <i>Geography and Sustainability</i> , 2021, 2, 31-39.	1.9	33
1121	White-Sand Savannas Expand at the Core of the Amazon After Forest Wildfires. <i>Ecosystems</i> , 2021, 24, 1624-1637.	1.6	27
1122	Terrestrial Evaporation and Global Climate: Lessons from Northland, a Planet with a Hemispheric Continent. <i>Journal of Climate</i> , 2021, 34, 2253-2276.	1.2	7
1123	Hydrological impacts of ethanol-driven sugarcane expansion in Brazil. <i>Journal of Environmental Management</i> , 2021, 282, 111942.	3.8	10
1124	Can precrops uplift subsoil nutrients to topsoil?. <i>Plant and Soil</i> , 2021, 463, 329-345.	1.8	18
1126	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
1127	Representation of Plant Hydraulics in the Noah-CMP Land Surface Model: Model Development and Multiscale Evaluation. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002214.	1.3	50
1128	Plasticity of pine tree roots to podzolization of boreal sandy soils. <i>Plant and Soil</i> , 2021, 464, 209-222.	1.8	4
1131	The Relationship Between Topography, Bedrock Weathering, and Water Storage Across a Sequence of Ridges and Valleys. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF005848.	1.0	13
1132	Spatiotemporal Assessment of GHG Emissions and Nutrient Sequestration Linked to Agronutrient Runoff in Global Wetlands. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006816.	1.9	18
1134	How tree species, tree size, and topographical location influenced tree transpiration in northern boreal forests during the historic 2018 drought. <i>Global Change Biology</i> , 2021, 27, 3066-3078.	4.2	22
1135	Subsurface Moisture Regulates Himalayan Groundwater Storage and Discharge. <i>AGU Advances</i> , 2021, 2, e2021AV000398.	2.3	20
1136	Linking Ecosystem Services to Social Well-Being: An Approach to Assess Land Degradation. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	1.1	8

#	ARTICLE	IF	CITATIONS
1137	Revisiting Global Vegetation Controls Using Multi-Layer Soil Moisture. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092856.	1.5	30
1138	Improvement of modeling plant responses to low soil moisture in JULESv4.9 and evaluation against flux tower measurements. <i>Geoscientific Model Development</i> , 2021, 14, 3269-3294.	1.3	15
1139	Modelling current and future potential distributions of <i>Vachellia tortilis</i> (Forssk.) Hayne subsp. <i>raddiana</i> (Savi.) Brenan var. <i>raddiana</i> under climate change in Tunisia. <i>African Journal of Ecology</i> , 2021, 59, 944-958.	0.4	1
1140	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
1141	Summer temperature response to extreme soil water conditions in the Mediterranean transitional climate regime. <i>Climate Dynamics</i> , 2022, 58, 1943-1963.	1.7	15
1142	Groundwater subsidizes tree growth and transpiration in sandy humid forests. <i>Ecohydrology</i> , 2021, 14, e2294.	1.1	9
1143	Topsoil Moisture Depletion and Recharge below Young Norway Spruce, White Birch, and Treeless Gaps at a Mountain-Summit Site. <i>Forests</i> , 2021, 12, 828.	0.9	4
1145	Comparison of the root-soil water relationship of two typical revegetation species along a precipitation gradient on the Loess Plateau. <i>Environmental Research Letters</i> , 2021, 16, 064054.	2.2	5
1146	Crop response to P fertilizer omission under a changing climate - Experimental and modeling results over 115 years of a long-term fertilizer experiment. <i>Field Crops Research</i> , 2021, 268, 108174.	2.3	8
1147	Geofísica para la prospección agrícola y forestal: guía para interpretar imágenes del subsuelo. <i>Madera Bosques</i> , 2021, 27, .	0.1	0
1148	Patterns of post-drought recovery are strongly influenced by drought duration, frequency, post-drought wetness, and bioclimatic setting. <i>Global Change Biology</i> , 2021, 27, 4630-4643.	4.2	37
1149	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
1151	Forests buffer against variations in precipitation. <i>Global Change Biology</i> , 2021, 27, 4686-4696.	4.2	39
1152	A Spatially Explicit Crop Yield Model to Simulate Agricultural Productivity for Past Societies under Changing Environmental Conditions. <i>Water (Switzerland)</i> , 2021, 13, 2023.	1.2	4
1153	Adaptive plasticity in plant traits increases time to hydraulic failure under drought in a foundation tree. <i>Tree Physiology</i> , 2022, 42, 708-721.	1.4	19
1154	Ecosystem sulfur accumulation following woody encroachment drives a more open S-cycle in a Subtropical Savanna. <i>Biogeochemistry</i> , 2021, 155, 343-355.	1.7	1
1155	TransparC2U: A two-pool, pedology oriented forest soil carbon simulation model aimed at user investigations of multiple uncertainties. <i>Ecological Modelling</i> , 2021, 453, 109603.	1.2	0
1156	Water-Centric Nexus Approach for the Agriculture and Forest Sectors in Response to Climate Change in the Korean Peninsula. <i>Agronomy</i> , 2021, 11, 1657.	1.3	3

#	ARTICLE	IF	CITATIONS
1157	InVEST Model-Based Spatiotemporal Analysis of Water Supply Services in the Zhangcheng District. <i>Forests</i> , 2021, 12, 1082.	0.9	6
1158	Investigation of a non-linear complementary relationship model for monthly evapotranspiration estimation at global flux sites. <i>Journal of Hydrometeorology</i> , 2021, , .	0.7	2
1159	A Comparative Study of Conceptual Model Complexity to Describe Water Flow and Nitrate Transport in Deep Unsaturated Loess. <i>Water Resources Research</i> , 2021, 57, e2020WR029250.	1.7	5
1161	Early growth and ecophysiological responses of Koa ( <i>Acacia koa</i> A. Gray) seedlings to reduced water and phosphorus. <i>New Forests</i> , 0, , 1.	0.7	1
1163	Phylogenetic Underpinning of Groundwater Use by Trees. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093858.	1.5	12
1164	Roots take up labeled nitrogen from a depth of 9Âm in a wooded savanna in Brazil. <i>Soil Biology and Biochemistry</i> , 2021, 160, 108282.	4.2	5
1165	Stability of tropical forest tree carbonâ€water relations in a rainfall exclusion treatment through shifts in effective water uptake depth. <i>Global Change Biology</i> , 2021, 27, 6454-6466.	4.2	17
1166	Review: Assessment of climate change impacts on groundwater-dependent ecosystems in transboundary aquifer settings with reference to the Tuli-Karoo transboundary aquifer. <i>Ecohydrology and Hydrobiology</i> , 2022, 22, 126-140.	1.0	6
1167	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
1168	How Trees and Grasses Grow and Compete. , 2021, , 97-117.		0
1169	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
1170	The role of groundwater in loading of nutrients to a restricted bay in a Precambrian Shield lake. Part 1. â€“ Conceptual model and field observations. <i>Journal of Great Lakes Research</i> , 2021, 47, 1259-1272.	0.8	5
1171	Impacts of landscape patterns on water-related ecosystem services under natural restoration in Liaohe River Reserve, China. <i>Science of the Total Environment</i> , 2021, 792, 148290.	3.9	54
1172	Evaluating landscape influences on hydrologic behavior with a fully-integrated groundwater â€“ surface water model. <i>Journal of Hydrology</i> , 2021, 602, 126758.	2.3	9
1173	Design and temporal issues in Soil Bioengineering structures for the stabilisation of shallow soil movements. <i>Ecological Engineering</i> , 2021, 169, 106309.	1.6	24
1174	The possible role of <i>Ziziphus lotus</i> as an ecosystem engineer in semiarid landscapes. <i>Journal of Arid Environments</i> , 2021, 195, 104614.	1.2	1
1175	Growing deep roots has opposing impacts on the transpiration of apple trees planted in subhumid loess region. <i>Agricultural Water Management</i> , 2021, 258, 107207.	2.4	14
1176	Spatial variability in tree-ring carbon isotope discrimination in response to local drought across the entire loblolly pine natural range. <i>Tree Physiology</i> , 2022, 42, 44-58.	1.4	1



#	ARTICLE	IF	CITATIONS
1177	Deepening roots can enhance carbonate weathering by amplifying CO <sub>2</sub> -rich recharge. <i>Biogeosciences</i> , 2021, 18, 55-75.	1.3	31
1178	Groundwater fluxes in arid and semi-arid environments. , 2006, , 225-236.		4
1179	Maintaining Hydraulic Control Using Deep Rooted Tree Systems. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2003, 78, 125-156.	0.6	16
1180	Ecosystems and Problems of Measurement at Large Spatial Scales. , 1998, , 346-371.		9
1181	Root Form and Function in Plant as an Adaptation to Changing Climate. , 2012, , 175-198.		4
1182	Root-Water Relations and Interactions in Mixed Forest Settings. <i>Ecological Studies</i> , 2020, , 319-348.	0.4	8
1183	Plant Water Relations. , 2019, , 187-263.		25
1184	Impacts of Plant Invasions on Terrestrial Water Flows in South Africa. , 2020, , 431-457.		30
1185	Woody Plant Encroachment: Causes and Consequences. <i>Springer Series on Environmental Management</i> , 2017, , 25-84.	0.3	266
1186	Distribution and Evolution of Mycorrhizal Types and Other Specialised Roots in Australia. <i>Ecological Studies</i> , 2017, , 361-394.	0.4	11
1187	Carbon and Water Tradeoffs in Conversions to Forests and Shrublands. , 2007, , 237-246.		10
1188	Functional Differences in Soil Water Pools: a New Perspective on Plant Water Use in Water-Limited Ecosystems. <i>Progress in Botany Fortschritte Der Botanik</i> , 2008, , 397-422.	0.1	62
1189	The hydraulic performance of tropical rainforest trees in their perhumid environment - is there evidence for drought vulnerability?. <i>Environmental Science and Engineering</i> , 2010, , 391-410.	0.1	2
1190	Carbon and Water Fluxes in Mediterranean-Type Ecosystems – Constraints and Adaptations. <i>Progress in Botany Fortschritte Der Botanik</i> , 2004, , 467-498.	0.1	17
1191	Ecology of Phreatophytes. <i>Progress in Botany Fortschritte Der Botanik</i> , 2014, , 335-375.	0.1	24
1192	Structure and Dynamics of the Root System. <i>Ecological Studies</i> , 1999, , 47-59.	0.4	40
1193	Sampling Strategies, Scaling, and Statistics. , 2000, , 147-173.		51
1194	Auger Sampling, Ingrowth Cores and Pinboard Methods. , 2000, , 175-210.		90

#	ARTICLE	IF	CITATIONS
1195	Turnover of Root Systems. <i>Ecological Studies</i> , 2003, , 61-89.	0.4	45
1197	Severe Drought Resulting from Seasonal and Interannual Variability in Rainfall and Its Impact on Transpiration in a Hill Evergreen Forest in Northern Thailand. , 2007, , 45-55.		1
1198	The Natural Dynamic of Carbon in Forest Ecosystems. , 2010, , 23-101.		2
1199	Carbon Dynamics and Pools in Major Forest Biomes of the World. , 2010, , 159-205.		6
1200	Nutrient and Water Limitations on Carbon Sequestration in Forests. , 2010, , 207-239.		2
1201	Grapevine Roots and Soil Environment: Growth, Distribution and Function. , 2010, , 1-20.		10
1202	Age-Dependent Changes in Environmental Influences on Tree Growth and Their Implications for Forest Responses to Climate Change. <i>Tree Physiology</i> , 2011, , 455-479.	0.9	29
1203	Overstoryâ€œUnderstory Relationships. <i>Landscape Series</i> , 2013, , 145-179.	0.1	17
1205	The Potential Effects of Elevated CO2 and Climate Change on Tropical Forest Soils and Biogeochemical Cycling. , 1998, , 197-221.		5
1206	Subsoil root activity in tree-based cropping systems. , 2003, , 319-331.		13
1208	Climate Change and Forest Dynamics: A Soils Perspective. <i>Issues in Environmental Science and Technology</i> , 2012, , 158-182.	0.4	6
1209	Soil Physical Degradation: Threats and Opportunities to Food Security. <i>Issues in Environmental Science and Technology</i> , 2012, , 198-226.	0.4	6
1210	A Landslide Hazard Rating System for Colorado Highways. , 2014, , .		2
1211	Rootzone storage capacity reveals drought coping strategies along rainforest-savanna transitions. <i>Environmental Research Letters</i> , 2020, 15, 124021.	2.2	28
1213	Application of InVEST Water Yield Model for Assessing Forest Water Provisioning Ecosystem Service. <i>Journal of the Korean Association of Geographic Information Studies</i> , 2015, 18, 120-134.	0.1	8
1214	Evaluation of drought and UV radiation impacts on above-ground biomass of mountain grassland by spectral reflectance and thermal imaging techniques. <i>Beskydy</i> , 2016, 9, 21-30.	0.2	5
1215	The Impact of Climate Change on Groundwater. , 2006, , 28-1-28-42.		3
1216	Functional Attributes in Mediterranean-Type Ecosystems. <i>Books in Soils, Plants, and the Environment</i> , 2007, , .	0.1	7

#	ARTICLE	IF	CITATIONS
1217	Carbon Cycling in Wetland Forest Soils. , 2002, , .		4
1218	Comparing Soil Organic Carbon Dynamics in Perennial Grasses and Shrubs in a Saline-Alkaline Arid Region, Northwestern China. PLoS ONE, 2012, 7, e42927.	1.1	18
1219	Mapping Current and Potential Distribution of Non-Native Prosopis juliflora in the Afar Region of Ethiopia. PLoS ONE, 2014, 9, e112854.	1.1	59
1220	Effects of Increased Summer Precipitation and Nitrogen Addition on Root Decomposition in a Temperate Desert. PLoS ONE, 2015, 10, e0142380.	1.1	10
1221	Effects of conversion of native cerrado vegetation to pasture on soil hydro-physical properties, evapotranspiration and streamflow on the Amazonian agricultural frontier. PLoS ONE, 2017, 12, e0179414.	1.1	61
1223	Dependence of pea root mass distribution on weather conditions under varying levels of phosphorus application. International Agrophysics, 2018, 32, 365-372.	0.7	3
1224	Evaluation of leguminous species as cover crops associated with sacha inchi1. Pesquisa Agropecuaria Tropical, 0, 49, .	1.0	4
1226	Predicting impacts of climate change on evapotranspiration and soil moisture for a site with subhumid climate. Journal of Hydrology and Hydromechanics, 2019, 67, 384-392.	0.7	3
1227	Is maize root growth affected by pig slurry application on a tropical acid soil?. Plant Root, 2007, 1, 75-84.	0.3	5
1229	Effect of climate on malarial vector distribution in Monsoon Asia: coupled model for Ecophysiological and Climatological Distribution of mosquito generations (ECD-mg). Climate Research, 2012, 53, 77-88.	0.4	4
1230	Soil Physical-Hydrological Degradation in the Root-Zone of Tree Crops: Problems and Solutions. Agronomy, 2021, 11, 68.	1.3	10
1231	Carbon, Nitrogen, and Sulfur Elemental Fluxes in the Soil and Exchanges with the Atmosphere in Australian Tropical, Temperate, and Arid Wetlands. Atmosphere, 2021, 12, 42.	1.0	4
1232	Perspective on the control of invasive mesquite trees and possible alternative uses. IForest, 2018, 11, 577-585.	0.5	8
1233	Effect of mini-plug container depth on root and shoot growth of four forest tree species during early developmental stages. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 0, , .	0.8	8
1234	Use of Palm (Poenix dactilyfera L.) Fiber and Sewage Sludge Co Compost as Substrates in Soilless Crop System. Pakistan Journal of Biological Sciences, 2013, 16, 651-660.	0.2	2
1236	Disruption of ecosystem processes in western North America by invasive species. Revista Chilena De Historia Natural, 2004, 77, .	0.5	159
1237	Exotic plant invasions to the mediterranean region of Chile: causes, history and impacts. Revista Chilena De Historia Natural, 2004, 77, .	0.5	51
1239	Do degree and rate of silicate weathering depend on plant productivity?. Biogeosciences, 2020, 17, 4883-4917.	1.3	22

#	ARTICLE	IF	CITATIONS
1244	Biophysics and vegetation cover change: a process-based evaluation framework for confronting land surface models with satellite observations. <i>Earth System Science Data</i> , 2018, 10, 1265-1279.	3.7	46
1247	Global distribution of hydrologic controls on forest growth. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 4625-4639.	1.9	26
1259	Evergreen sclerophyllous &lt;i>&gt;Quercus&lt;/i> forests in northwestern Yunnan, China as compared to the Mediterranean evergreen &lt;i>&gt;Quercus&lt;/i> forests in California, USA and northeastern Spain. <i>Web Ecology</i> , 2006, 6, 88-101.	0.4	18
1260	Point processes statistics of stable isotopes: analysing water uptake patterns in a mixed stand of Aleppo pine and Holm oak. <i>Forest Systems</i> , 2015, 24, 009.	0.1	5
1261	The role of ecophysiology in reforestation. <i>Investigacion Agraria Sistemas Y Recursos Forestales</i> , 2005, 14, 446.	0.4	6
1263	Effects of groundwater abstraction on two keystone tree species in an arid savanna national park. <i>PeerJ</i> , 2017, 5, e2923.	0.9	16
1264	Development and Application of Annual Evapotranspiration Estimation Model Considering Vegetation Effect. <i>Korean Society of Hazard Mitigation</i> , 2014, 14, 363-372.	0.1	2
1265	Dynamics of Mixed Pine&quot;Oak Forests. <i>Managing Forest Ecosystems</i> , 2021, , 345-362.	0.4	4
1266	SOIL-WATERGRIDS, mapping dynamic changes in soil moisture and depth of water table from 1970 to 2014. <i>Scientific Data</i> , 2021, 8, 263.	2.4	4
1267	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
1268	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
1269	Root Biomass and Microbial Processes. , 2000, , .		9
1270	Tree Coring as a Potential Site Characterization Tool of Shallow Groundwater Contamination. , 2002, , 207-211.		0
1271	Biological Processes in Soils. , 2003, , 83-120.		0
1272	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
1273	Erfassung und Quantifizierung der Strukturen von Wurzelsystemverbänden heterogener Pflanzengesellschaften mittels Bild- und Fraktalanalyse. , 2004, , 20-28.		0
1274	References Part D. Global Change - the IGBP Series, 2004, , 465-479.	2.1	0
1275	References Part A. Global Change - the IGBP Series, 2004, , 137-153.	2.1	0

#	ARTICLE	IF	CITATIONS
1276	Dry season Kalahari sap flow measurements for tree transpiration mapping – Serowe study case, Botswana. , 2004, , 541-546.		1
1277	Approach to water cycle in forest ecosystems. Investigacion Agraria Sistemas Y Recursos Forestales, 2005, 14, 497.	0.4	1
1278	Ecological Correlates of Flowering Seasons in Korean Angiosperms. Journal of Ecology and Environment, 2006, 29, 353-360.	1.6	1
1280	Structure and Function of Root Systems. Books in Soils, Plants, and the Environment, 2007, , .	0.1	1
1281	Study on the Accumulation of Aboveground Biomass of <i>Lespedeza hedysaroides</i> and <i>L. davurica</i>. Arid Zone Research, 2008, 25, 82-89.	0.1	1
1283	How Mediterranean Deciduous Trees Cope with Long Summer Drought? The Case of <i>Quercus pyrenaica</i> Forests in Western Spain. Ecological Studies, 2010, , 187-201.	0.4	2
1284	Carbon Storage in Some Urban Forest Soils of Columbus, Ohio, USA. , 2012, , 139-158.		1
1285	Optimizing environmental flow rules – a conceptual model. , 0, , .		1
1286	Land Use Effects on Energy and Water Balance-Developing A Regional Land Use Adapted Drought Index. Irrigation & Drainage Systems Engineering, 2012, 01, .	0.1	0
1288	Managing and Monitoring Tree Health and Soil Water Status During Extreme Drought in Melbourne, Victoria. Arboriculture and Urban Forestry, 2013, 39, .	0.2	8
1289	Forests: Temperate Evergreen and Deciduous. , 2014, , 214-223.		5
1290	Quantification of Tree Root Depth for Basin-Scale Sediment Yield Simulation. Korean Society of Hazard Mitigation, 2015, 15, 301-311.	0.1	1
1291	The Contribution of Root Exudates, Symbionts, and Detritus to Carbon Sequestration in the Soil. Agronomy, 0, , 145-162.	0.2	3
1295	Measuring and Mapping the Impact of Land Use and Land Cover Change on the Hydropower Production – A Case Study of Jiulong River in Fujian Province. Journal of Water Resources Research, 2017, 06, 370-383.	0.1	1
1296	Study on the Standards of Proper Effective Rooting Depth for Upland Crops. Han'guk T'oyang Piryo Hakhoe Chi Han'guk T'oyang Piryo Hakhoe, 2017, 50, 21-30.	0.1	5
1297	Pflanzen in –kosystemen. , 2018, , 151-196.		0
1298	Water Relations. , 2019, , 329-365.		0
1301	Fundamentals towards Understanding Global Vegetation. , 2020, , 1-120.		1

#	ARTICLE	IF	CITATIONS
1302	Forests. , 2020, , 213-226.		1
1303	Rhizosphere Legacy: Plant Root Interactions with the Soil and Its Biome. Rhizosphere Biology, 2021, , 129-153.	0.4	3
1304	Sensitivity of Remotely Sensed Vegetation to Hydrologic Predictors across the Colorado River Basin, 2001â€”2019. Journal of the American Water Resources Association, 0, , .	1.0	1
1305	Plant Responses to Changing Water Supply and Availability in High Elevation Ecosystems: A Quantitative Systematic Review and Meta-Analysis. Land, 2021, 10, 1150.	1.2	6
1306	The Importance of Groundwater in Critical Zone Science. Ground Water, 2022, 60, 27-34.	0.7	18
1307	A Detailed Analysis of Artificial Intelligence Support to Measure Negative Impacts Created by the Abnormal Growth of Prosopis Juliflora: A Review. , 2020, , .		0
1308	Groundwater Recharge in the Cerrado Biome, Brazilâ€”A Multi-Method Study at Experimental Watershed Scale. Water (Switzerland), 2021, 13, 20.	1.2	5
1309	Zonal Vegetation of the Humid Nemoral (Coolâ€”Temperate) Zone. , 2020, , 599-693.		1
1310	Cover Crop Dynamics on Hydrology and Erosion. , 2020, , 137-164.		0
1311	Spatial-Temporal Analysis of Water Supply Services at Different Scales in the Wuhua River Basin. Communications in Computer and Information Science, 2020, , 290-306.	0.4	0
1313	Root growth response and functioning as an adaptation in water limiting soils. , 2007, , 55-72.		0
1314	Precipitation and Temperature Impact on Woody Plant Invaders in the Flint Hills Region of Kansas. Transactions of the Kansas Academy of Science, 2020, 123, .	0.0	0
1315	Exploring water use and production dynamics of an indigenous African dry forest in south-western Zimbabwe. Journal of Arid Environments, 2022, 198, 104678.	1.2	0
1316	Impact of land use and tillage practice on soil macropore characteristics inferred from X-ray computed tomography. Catena, 2022, 210, 105886.	2.2	17
1317	Sudan Case Study. , 2021, , 53-84.		0
1318	Measurement of soil properties and surface hydrology parameters to assess the variation induced by different plantations. , 2021, , .		0
1319	Movements and Habitat Use of Bog Turtles in a Southern Appalachian Bog. Southeastern Naturalist, 2021, 20, .	0.2	0
1320	Evaluation of the relationship between root nutrients and root biomass in lands under different management practices. Environmental Monitoring and Assessment, 2021, 193, 799.	1.3	1

#	ARTICLE	IF	CITATIONS
1321	Characterization of the hydro-geological regime of fractured aquifers in Benin (West-Africa) using multi-satellites and models. <i>Journal of Hydrology: Regional Studies</i> , 2022, 39, 100987.	1.0	2
1322	What Do P-Wave Velocities Tell Us About the Critical Zone?. <i>Frontiers in Water</i> , 2022, 3, .	1.0	13
1323	The role of fine root morphology in nitrogen uptake by riparian plants. <i>Plant and Soil</i> , 2022, 472, 527-542.	1.8	9
1324	Estimation of Applicability of Soil Model for Rubber ( <i>Hevea brasiliensis</i> ) Plantations in Xishuangbanna, Southwest China. <i>Water (Switzerland)</i> , 2022, 14, 295.	1.2	4
1325	Adaptive Strategies of Seedlings of Four Mediterranean Co-Occurring Tree Species in Response to Light and Moderate Drought: A Nursery Approach. <i>Forests</i> , 2022, 13, 154.	0.9	5
1326	Developing design criteria for active green wall bioremediation performance: Growth media selection shapes plant physiology, water and air flow patterns. <i>Energy and Buildings</i> , 2022, 260, 111913.	3.1	2
1327	Plant sizes and shapes above and belowground and their interactions with climate. <i>New Phytologist</i> , 2022, 235, 1032-1056.	3.5	45
1328	DOMINANT SONORAN DESERT PLANT SPECIES HAVE DIVERGENT PHENOLOGICAL RESPONSES TO CLIMATE CHANGE. <i>MadroA±o</i> , 2021, 68, .	0.3	8
1329	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
1330	Modeling and analyzing supply-demand relationships of water resources in Xinjiang from a perspective of ecosystem services. <i>Journal of Arid Land</i> , 2022, 14, 115-138.	0.9	11
1331	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
1332	Limited increases in savanna carbon stocks over decades of fire suppression. <i>Nature</i> , 2022, 603, 445-449.	13.7	36
1333	Application of the Horizontal Soil Stratification and Lateral Profiling Methods for 3D Mapping of the Soil Electrical Resistivity. <i>Energies</i> , 2022, 15, 2067.	1.6	0
1334	Application of a novel cascade-routing and infiltration concept with a Voronoi unstructured grid in MODFLOW 6, for an assessment of surface-water/groundwater interactions in a hard-rock catchment (Sardon, Spain). <i>Hydrogeology Journal</i> , 2022, 30, 899-925.	0.9	5
1335	Spatiotemporal evaluation of future groundwater recharge in arid and semi-arid regions under climate change scenarios. <i>Hydrological Sciences Journal</i> , 2022, 67, 979-995.	1.2	5
1337	Unlocking Drought-Induced Tree Mortality: Physiological Mechanisms to Modeling. <i>Frontiers in Plant Science</i> , 2022, 13, 835921.	1.7	6
1338	Water uptake patterns of pea and barley responded to drought but not to cropping systems. <i>Biogeosciences</i> , 2022, 19, 1853-1869.	1.3	2
1339	Evolution of light use efficiency models: Improvement, uncertainties, and implications. <i>Agricultural and Forest Meteorology</i> , 2022, 317, 108905.	1.9	62

#	ARTICLE	IF	CITATIONS
1340	Root foraging alters global patterns of ecosystem legacy from climate perturbations. <i>Journal of Geophysical Research G: Biogeosciences</i> , 0, , .	1.3	3
1341	Long-term assessment of land-use and climate change on water scarcity in an arid basin in Iran. <i>Ecological Modelling</i> , 2022, 467, 109934.	1.2	35
1342	Low-disturbance farming regenerates healthy deep soil toward sustainable agriculture - Evidence from long-term no-tillage with stover mulching in Mollisols. <i>Science of the Total Environment</i> , 2022, 825, 153929.	3.9	14
1343	Protective Effects of Forests against Gravitational Natural Hazards. , 0, , .		16
1344	Non-flooded riparian Amazon trees are a regionally significant methane source. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20200446.	1.6	10
1345	Spatial matching and flow in supply and demand of water provision services: A case study in Xiangjiang River Basin. <i>Journal of Mountain Science</i> , 2022, 19, 228-240.	0.8	5
1346	A Machine Learning Approach to Predict Groundwater Levels in California Reveals Ecosystems at Risk. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	12
1347	New In-Flame Flammability Testing Method Applied to Monitor Seasonal Changes in Live Fuel. <i>Fire</i> , 2022, 5, 1.	1.2	4
1349	Global biogeography. , 0, , 364-392.		0
1363	The Asebio Index for Monitoring Ecosystem Services: Comparison of Data-Based Modelling with Stakeholdersâ€™ Approach. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1364	Vegetation response to soil moisture and groundwater in west-central Africa revealed by satellite observations. <i>Hydrological Sciences Journal</i> , 0, , .	1.2	0
1365	Estimating the Actual Evapotranspiration of Different Vegetation Types Based on Root Distribution Functions. <i>Frontiers in Earth Science</i> , 2022, 10, .	0.8	5
1366	New methods for new questions about rhizosphere/plant root interactions. <i>Plant and Soil</i> , 2022, 476, 699-712.	1.8	9
1367	Modeling revealed the effect of root dynamics on the water adaptability of phreatophytes. <i>Agricultural and Forest Meteorology</i> , 2022, 320, 108959.	1.9	11
1368	New hydrogeochemical insights on a West Texas desert spring cluster: Trans-Pecos Balmorhea-Area Springs. <i>Applied Geochemistry</i> , 2022, 142, 105331.	1.4	1
1369	Flooding influences on the C, N and P stoichiometry in terrestrial ecosystems: A meta-analysis. <i>Catena</i> , 2022, 215, 106287.	2.2	9
1370	Green-Up and Brown-Down: Modelling Grassland Foliage Phenology Responses to Soil Moisture Availability. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1371	A New Strategy to Improve Vineyard Resilience: Grapevine Morphological Adaptation to Short-Term Nitrogen Deficiency. <i>Agronomy</i> , 2022, 12, 1355.	1.3	2



#	ARTICLE	IF	CITATIONS
1372	Spatial differentiation of determinants for water conservation dynamics in a dryland mountain. <i>Journal of Cleaner Production</i> , 2022, 362, 132574.	4.6	18
1374	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
1375	Contrasting Responses of Vegetation Production to Rainfall Anomalies Across the Northeast China Transect. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	7
1376	Identify the Impacts of the Grand Ethiopian Renaissance Dam on Watershed Sediment and Water Yields Dynamics. <i>Sustainability</i> , 2022, 14, 7590.	1.6	5
1377	Growing season carbon dynamics differ in intermediate wheatgrass monoculture versus biculture with red clover. <i>Agricultural and Forest Meteorology</i> , 2022, 323, 109062.	1.9	5
1378	Combining biological and hydrogeological approaches: The grass <i>Molinia arundinacea</i> as a possible bioindicator of temporary perched aquifers in ophiolitic systems. <i>Catena</i> , 2022, 217, 106448.	2.2	1
1379	Enrichment of <sup>13</sup> C with depth in soil organic horizons is not explained by CO <sub>2</sub> or DOC losses during decomposition. <i>Geoderma</i> , 2022, 424, 116004.	2.3	5
1380	From Intra-plant to Regional Scale: June Temperatures and Regional Climates Directly and Indirectly Control <i>Betula nana</i> Growth in Arctic Alaska. <i>Ecosystems</i> , 2023, 26, 491-509.	1.6	2
1381	How do groundwater dynamics influence heatwaves in southeast Australia?. <i>Weather and Climate Extremes</i> , 2022, 37, 100479.	1.6	3
1382	Land Use Affects Soil Water Balance and Soil Desiccation within the Soil Profile: Evidence from the Western Loess Plateau Case. <i>Land</i> , 2022, 11, 1136.	1.2	3
1383	The Role of Hydrogeological Monitoring in a Multidisciplinary Context for the Preservation of the Critical Zone in the Natural Reserve of Castelporziano Estate. <i>Frontiers in Earth Science</i> , 0, 10, .	0.8	0
1384	Spatio-temporal Evolution and Flow of Water Provision Service Balance in Jinghe River Basin. <i>Journal of Resources and Ecology</i> , 2022, 13, .	0.2	2
1385	Limited Acclimation in Leaf Morphology and Anatomy to Experimental Drought in Temperate Forest Species. <i>Biology</i> , 2022, 11, 1186.	1.3	7
1386	Vegetation strategies for nitrogen and potassium acquisition along a climate and vegetation gradient: From semi-desert to temperate rainforest. <i>Geoderma</i> , 2022, 425, 116077.	2.3	1
1387	Age-specific and species-specific tree response to seasonal drought in tropical dry forests. <i>Science of the Total Environment</i> , 2022, 850, 157908.	3.9	1
1388	Sap flow velocities of <i>Acer saccharum</i> and <i>Quercus velutina</i> during drought: Insights and implications from a throughfall exclusion experiment in West Virginia, USA. <i>Science of the Total Environment</i> , 2022, 850, 158029.	3.9	2
1389	Improvement of evapotranspiration simulation in a physically based ecohydrological model for the groundwater-soil-plant-atmosphere continuum. <i>Journal of Hydrology</i> , 2022, 613, 128440.	2.3	5
1390	Magnesium stable isotopes as a potential geochemical tool in agronomy – Constraints and opportunities. <i>Chemical Geology</i> , 2022, 611, 121114.	1.4	5

#	ARTICLE	IF	CITATIONS
1391	Recent variations in soil moisture use efficiency (SMUE) and its influence factors in Asian drylands. <i>Journal of Cleaner Production</i> , 2022, 373, 133860.	4.6	4
1392	Deep Soil Carbon: Characteristics and Measurement with Particular Bearing on Kaolinitic Profiles. , 2022, , 347-372.		2
1393	How to not trade water for carbon with tree planting in water-limited temperate biomes?. <i>Science of the Total Environment</i> , 2023, 856, 158960.	3.9	8
1394	Differential impacts of soil salinity and water logging on Eucalyptus growth and carbon sequestration under mulched vs. unmulched soils in south-western Punjab, India. <i>Plant and Soil</i> , 2023, 482, 401-425.	1.8	16
1396	Eucalyptus Growth Responses to Soil Water Storage Capacity in Arenosols and Acrisols Soils: Wood and Biomass Stock Modelling. <i>Sustainability</i> , 2022, 14, 12215.	1.6	2
1397	Informing hydrogeological models with remotely sensed evapotranspiration. <i>Frontiers in Water</i> , 0, 4, .	1.0	1
1398	Factors Controlling a Synthetic Aperture Radar (SAR) Derived Root-Zone Soil Moisture Product over The Seward Peninsula of Alaska. <i>Remote Sensing</i> , 2022, 14, 4927.	1.8	1
1399	Implementation of Dynamic Effective Rooting Depth in Evapotranspiration Model Deepens Understanding of Evapotranspiration Partitioning Under Soil Moisture Gradients in China. <i>Water Resources Research</i> , 2022, 58, .	1.7	5
1400	Conifer water-use patterns across temporal and topographic gradients in the southern Sierra Nevada. <i>Tree Physiology</i> , 2023, 43, 210-220.	1.4	1
1401	Hedgerows on Crop Field Edges Increase Soil Carbon to a Depth of 1 meter. <i>Sustainability</i> , 2022, 14, 12901.	1.6	3
1402	Differences in plant-dispersal mechanisms between contrasting Brazilian savanna habitats. <i>Plant Ecology and Diversity</i> , 0, , 1-10.	1.0	0
1403	Grapevine Rooting Patterns: A Comprehensive Analysis and a Review. <i>American Journal of Enology and Viticulture</i> , 2006, 57, 89-104.	0.9	153
1404	Adaptability responses to drought stress in the oak species <i>Quercus petraea</i> growing on dry sites. <i>Journal of Forest Science</i> , 2022, 68, 459-472.	0.5	0
1405	Globalâ€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
1406	Forest expansion in abandoned agricultural lands has limited effect to offset carbon emissions from Central-North Spain. <i>Regional Environmental Change</i> , 2022, 22, .	1.4	3
1407	Sprawl or compactness? How urban form influences urban surface temperatures in Europe. <i>City and Environment Interactions</i> , 2022, 16, 100091.	1.8	5
1408	Green-up and brown-down: Modelling grassland foliage phenology responses to soil moisture availability. <i>Agricultural and Forest Meteorology</i> , 2023, 328, 109252.	1.9	2
1409	Ying Fan and groundwaterâ€™s global impact. <i>Journal of Hydrology</i> , 2023, 617, 128923.	2.3	0

#	ARTICLE	IF	CITATIONS
1410	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
1411	Comparing Different Light Use Efficiency Models to Estimate the Gross Primary Productivity of a Cork Oak Plantation in Northern China. <i>Remote Sensing</i> , 2022, 14, 5905.	1.8	2
1412	Desertification vulnerability under accelerated dryland expansion. <i>Land Degradation and Development</i> , 2023, 34, 1991-2004.	1.8	4
1413	Above- and Below-ground Mass Allocation and Characteristics of Root Distribution in a 13-Year-old <i>Melia azedarach</i> Stand. <i>Journal of the Japanese Forest Society</i> , 2022, 104, 343-349.	0.1	0
1414	Thermal tolerance and growth responses to <i>in situ</i> soil water reductions among alpine plants. <i>Plant Ecology and Diversity</i> , 0, , .	1.0	1
1415	Exploring the most important indicators for environmental condition assessment using structural equation modeling and InVEST habitat quality model. <i>Environmental Monitoring and Assessment</i> , 2023, 195, .	1.3	1
1416	Water Through a Stone. , 2022, , 21-44.		0
1417	The role of landscape and parent material on regolith under timber plantations at Highflats, KwaZulu-Natal, South Africa. <i>Geoderma Regional</i> , 2023, 32, e00608.	0.9	0
1418	Combining phytoremediation with bioenergy production: developing a multi-criteria decision matrix for plant species selection. <i>Environmental Science and Pollution Research</i> , 2023, 30, 40698-40711.	2.7	7
1419	Rhizosphere Mycobiome: Roles, Diversity, and Dynamics. , 2023, , 47-61.		0
1420	Evapotranspiration Partitioning of <i>Eucalyptus benthamii</i> and <i>Pinus taeda</i> During Early Stand Development. <i>Bioenergy Research</i> , 2023, 16, 2204-2218.	2.2	0
1421	Nitrogen and phosphorus pools and fluxes in upland and seasonally flooded forests and woodlands of the Cerrado-Pantanal transition of Brazil. <i>Trees, Forests and People</i> , 2023, 12, 100383.	0.8	1
1422	Strategies of Parameter Optimization and Soil Moisture Sensor Deployment for Accurate Estimation of Evapotranspiration Through a Data-driven Method. <i>Agricultural and Forest Meteorology</i> , 2023, 331, 109354.	1.9	4
1423	Acclimation limits for embolism resistance and osmotic adjustment accompany the geographical dry edge of Mediterranean species. <i>Functional Ecology</i> , 2023, 37, 1421-1435.	1.7	4
1424	Global patterns of water storage in the rooting zones of vegetation. <i>Nature Geoscience</i> , 2023, 16, 250-256.	5.4	28
1425	Plant-soil feedback: incorporating untested influential drivers and reconciling terminology. <i>Plant and Soil</i> , 2023, 485, 7-43.	1.8	14
1426	Moisture dynamics and irrigation modelling in apple ( <i>Malus domestica</i> ) trees using CROPWAT model in temperate region of India. , 2018, 88, 1449-1454.		2
1427	Global variations in critical drought thresholds that impact vegetation. <i>National Science Review</i> , 2023, 10, .	4.6	20

#	ARTICLE	IF	CITATIONS
1428	Landscape Pattern Change and Ecological Effect in a Typical Mountainâ€œOasisâ€œDesert Region in the Northwest Region of China. <i>International Journal of Environmental Research and Public Health</i> , 2023, 20, 4211.	1.2	2
1429	Mapping groundwater dependent ecosystem potential in a semi-arid environment using a remote sensing-based multiple-lines-of-evidence approach. <i>International Journal of Digital Earth</i> , 2023, 16, 375-406.	1.6	2
1430	æç%o©æ¹ç³»çç³è³/4“à...¥à¹éžæ¹é™...âœÿâ£çç³â“è’jçE®çš,,â...”çfâ®šé±ç”ç©¶. <i>SCIENTIA SINICA Terrae</i> , 2023, 0.1		0
1432	Probabilistic Analyses of Root-Reinforced Slopes Using Monte Carlo Simulation. <i>Geosciences (Switzerland)</i> , 2023, 13, 75.	1.0	3
1433	Restoration of Vegetation Greenness and Possible Changes in Mature Forest Communities in Two Forests Damaged by the Vaia Storm in Northern Italy. <i>Plants</i> , 2023, 12, 1369.	1.6	1
1434	Zoning for Spatial Conservation and Restoration Based on Ecosystem Services in Highly Urbanized Region: A Case Study in Beijing-Tianjin-Hebei, China. <i>Land</i> , 2023, 12, 733.	1.2	2
1435	Most root-derived carbon inputs do not contribute to long-term global soil carbon storage. <i>Science China Earth Sciences</i> , 2023, 66, 1072-1086.	2.3	2
1436	Partitioning and sourcing of evapotranspiration using coupled MARMITES-MODFLOW model, La Mata catchment (Spain). <i>Frontiers in Water</i> , 0, 5, .	1.0	1
1437	Contribution of tree and crop roots to soil carbon stocks in a Sub-Saharan agroforestry parkland in Senegal. <i>Agriculture, Ecosystems and Environment</i> , 2023, 352, 108524.	2.5	2
1478	Soil depth gradients of organic carbon-13 â€œ A review on drivers and processes. <i>Plant and Soil</i> , 2024, 495, 113-136.	1.8	2
1481	Unknown tipping-points: a method for anticipating future forest disturbance risk. , 2024, , 279-293.		0
1488	A Fine Line Between Carbon Source and Sink: Potential CO2 Sequestration through Sustainable Grazing Management in the Nama-Karoo. <i>Ecological Studies</i> , 2024, , 471-498.	0.4	0
1492	Bedrock: the hidden water reservoir for trees challenged by drought. <i>Trees - Structure and Function</i> , 2024, 38, 1-11.	0.9	0