

Water pulses and biogeochemical cycles in arid and sem

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Hierarchy of responses to resource pulses in arid and semi-arid ecosystems. <i>Oecologia</i> , 2004, 141, 211-220.	0.9	772
2	Precipitation pulses and carbon fluxes in semiarid and arid ecosystems. <i>Oecologia</i> , 2004, 141, 254-268.	0.9	942
3	Thresholds, memory, and seasonality: understanding pulse dynamics in arid/semi-arid ecosystems. <i>Oecologia</i> , 2004, 141, 191-193.	0.9	309
4	Is the change of plant-plant interactions with abiotic stress predictable? A meta-analysis of field results in arid environments. <i>Journal of Ecology</i> , 2005, 93, 748-757.	1.9	623
5	Increased rainfall variability and reduced rainfall amount decreases soil CO ₂ flux in a grassland ecosystem. <i>Global Change Biology</i> , 2005, 11, 322-334.	4.2	342
6	Diurnal, seasonal and annual variation in the net ecosystem CO ₂ exchange of a desert shrub community (<i>Sarcocaulis</i>) in Baja California, Mexico. <i>Global Change Biology</i> , 2005, 11, 927-939.	4.2	148
7	Plant N capture from pulses: effects of pulse size, growth rate, and other soil resources. <i>Oecologia</i> , 2005, 145, 113-122.	0.9	40
8	Pulse additions of soil carbon and nitrogen affect soil nitrogen dynamics in an arid Colorado Plateau shrubland. <i>Oecologia</i> , 2005, 145, 425-433.	0.9	57
9	Nitrogen Transport and Retention in an Arid Land Watershed: Influence of Storm Characteristics on Terrestrial-aquatic Linkages. <i>Biogeochemistry</i> , 2005, 76, 421-440.	1.7	72
10	Fate of Environmental Pollutants. <i>Water Environment Research</i> , 2005, 77, 2576-2658.	1.3	9
11	Dynamics of transpiration and evaporation following a moisture pulse in semiarid grassland: A chamber-based isotope method for partitioning flux components. <i>Agricultural and Forest Meteorology</i> , 2005, 132, 359-376.	1.9	121
12	ECOHYDROLOGY OF ARID AND SEMIARID ECOSYSTEMS: AN INTRODUCTION. , 2006, , 1-10.		8
13	MODELING OF CARBON AND NITROGEN CYCLING IN ARID AND SEMIARID ECOSYSTEMS. , 2006, , 183-199.		1
14	Ecohydrology of water-limited environments: A scientific vision. <i>Water Resources Research</i> , 2006, 42, .	1.7	397
15	Multi-scale temporal variation in water availability: Implications for vegetation dynamics in arid and semi-arid ecosystems. <i>Journal of Arid Environments</i> , 2006, 65, 219-234.	1.2	127
16	Carbon sequestration in semi-arid rangelands: Comparison of <i>Pinus ponderosa</i> plantations and grazing exclusion in NW Patagonia. <i>Journal of Arid Environments</i> , 2006, 67, 142-156.	1.2	173
17	Seasonal timing of N pulses influences N capture in a saltbush scrub community. <i>Journal of Arid Environments</i> , 2006, 67, 688-700.	1.2	14
20	Antecedent moisture and seasonal precipitation influence the response of canopy-scale carbon and water exchange to rainfall pulses in a semi-arid grassland. <i>New Phytologist</i> , 2006, 170, 849-860.	3.5	159

#	ARTICLE	IF	CITATIONS
22	Plant nitrogen capture in pulse-driven systems: interactions between root responses and soil processes. <i>Journal of Ecology</i> , 2006, 94, 765-777.	1.9	48
23	Glomeraceae and Gigasporaceae differ in their ability to form hyphal networks. <i>New Phytologist</i> , 2006, 172, 185-188.	3.5	79
24	Ecosystem structure and soil-surface conditions drive the variability in the foliar $\delta^{13}C$ and $\delta^{15}N$ of <i>Stipa tenacissima</i> in semiarid Mediterranean steppes. <i>Ecological Research</i> , 2006, 21, 44-53.	0.7	16
25	Soil Respiration in the Cold Desert Environment of the Colorado Plateau (USA): Abiotic Regulators and Thresholds. <i>Biogeochemistry</i> , 2006, 78, 247-265.	1.7	63
26	Differential Controls of Water Input on Litter Decomposition and Nitrogen Dynamics in the Patagonian Steppe. <i>Ecosystems</i> , 2006, 9, 128-141.	1.6	137
27	Rainfall and labile carbon availability control litter nitrogen dynamics in a tropical dry forest. <i>Oecologia</i> , 2006, 150, 602-610.	0.9	51
28	Phenotypic diversity amongst strains of <i>Pleurotus sajor-caju</i> : implications for cultivation in arid environments. <i>Mycological Research</i> , 2006, 110, 312-317.	2.5	29
29	Partitioning of evapotranspiration and its relation to carbon dioxide exchange in a Chihuahuan Desert shrubland. <i>Hydrological Processes</i> , 2006, 20, 3227-3243.	1.1	184
30	Response of Water Vapor and CO ₂ Fluxes in Semiarid Lands to Seasonal and Intermittent Precipitation Pulses. <i>Journal of Hydrometeorology</i> , 2006, 7, 995-1010.	0.7	48
31	When, How and How Much: Gender-specific Resource-use Strategies in the Dioecious Tree <i>Juniperus thurifera</i> . <i>Annals of Botany</i> , 2006, 98, 885-889.	1.4	48
32	Stochastic Dynamics of Plant-Water Interactions. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2007, 38, 767-791.	3.8	72
33	Drying and wetting of Mediterranean soils stimulates decomposition and carbon dioxide emission: the "Birch effect". <i>Tree Physiology</i> , 2007, 27, 929-940.	1.4	415
34	AMOUNT OR PATTERN? GRASSLAND RESPONSES TO THE HETEROGENEITY AND AVAILABILITY OF TWO KEY RESOURCES. <i>Ecology</i> , 2007, 88, 501-511.	1.5	80
35	Effects of tree cover and season on soil nitrogen dynamics and microbial biomass in an African savanna woodland dominated by <i>Colophospermum mopane</i> . <i>Journal of Tropical Ecology</i> , 2007, 23, 437-448.	0.5	16
36	POSTFIRE RESPONSE OF FLOOD-REGENERATING RIPARIAN VEGETATION IN A SEMI-ARID LANDSCAPE. <i>Ecology</i> , 2007, 88, 2094-2104.	1.5	25
37	Atmospheric nitrogen deposition in the northern Chihuahuan desert: Temporal trends and potential consequences. <i>Journal of Arid Environments</i> , 2007, 68, 640-651.	1.2	86
38	Soil heterogeneity and the distribution of desert and steppe plant species across a desert-grassland ecotone. <i>Journal of Arid Environments</i> , 2007, 69, 617-632.	1.2	54
39	Biogeochemistry of Kalahari sands. <i>Journal of Arid Environments</i> , 2007, 71, 259-279.	1.2	89

#	ARTICLE	IF	CITATIONS
40	WHAT MAKES GREAT BASIN SAGEBRUSH ECOSYSTEMS INVASIBLE BYBROMUS TECTORUM?. Ecological Monographs, 2007, 77, 117-145.	2.4	495
41	Rainfall limit of the N cycle on Earth. Global Biogeochemical Cycles, 2007, 21, .	1.9	64
42	Controls on the Spatial Dimensions of Wetted Hydrologic Margins of Two Antarctic Lakes. Vadose Zone Journal, 2007, 6, 841-848.	1.3	21
43	Climate Variability Controls on Unsaturated Water and Chemical Movement, High Plains Aquifer, USA. Vadose Zone Journal, 2007, 6, 533-547.	1.3	136
44	Nutrient resorption and patterns of litter production and decomposition in a Neotropical Savanna. Functional Ecology, 2007, 21, 1034-1043.	1.7	142
45	Contrasting relationships between precipitation and species richness in space and time. Oikos, 2007, 116, 221-232.	1.2	183
46	Precipitation pulses and soil CO ₂ flux in a Sonoran Desert ecosystem. Global Change Biology, 2007, 13, 426-436.	4.2	351
47	Laboratory incubations reveal potential responses of soil nitrogen cycling to changes in soil C and N availability in Mojave Desert soils exposed to elevated atmospheric CO ₂ . Global Change Biology, 2007, 13, 854-865.	4.2	26
48	Soil NO emissions modelling using artificial neural network. Tellus, Series B: Chemical and Physical Meteorology, 2007, 59, 502-513.	0.8	44
49	Three distinct clades of cultured heterocystous cyanobacteria constitute the dominant N ₂ -fixing members of biological soil crusts of the Colorado Plateau, USA. FEMS Microbiology Ecology, 2007, 60, 85-97.	1.3	106
50	Role of soil drying in nitrogen mineralization and microbial community function in semi-arid grasslands of north-west Australia. Soil Biology and Biochemistry, 2007, 39, 1557-1569.	4.2	56
51	Soil phosphorus release from a restoration wetland, Upper Klamath Lake, Oregon. Wetlands, 2007, 27, 1025-1035.	0.7	55
52	The potential bioavailability of organic C, N, and P through enzyme hydrolysis in soils of the Mojave Desert. Biogeochemistry, 2007, 82, 305-320.	1.7	16
53	Effects of an increase in summer precipitation on leaf, soil, and ecosystem fluxes of CO ₂ and H ₂ O in a sotol grassland in Big Bend National Park, Texas. Oecologia, 2007, 151, 704-718.	0.9	80
54	Influence of temporal heterogeneity in nitrogen supply on competitive interactions in a desert shrub community. Oecologia, 2007, 152, 721-727.	0.9	22
55	Water use efficiency of twenty-five co-existing Patagonian species growing under different soil water availability. Oecologia, 2007, 154, 207-17.	0.9	41
56	Fire in the Riparian Zone: Characteristics and Ecological Consequences. Ecosystems, 2007, 10, 673-687.	1.6	197
57	Intraseasonal Variation in Water and Carbon Dioxide Flux Components in a Semiarid Riparian Woodland. Ecosystems, 2007, 10, 1100-1115.	1.6	63

#	ARTICLE	IF	CITATIONS
58	Nutrient Vectors and Riparian Processing: A Review with Special Reference to African Semiarid Savanna Ecosystems. <i>Ecosystems</i> , 2007, 10, 1231-1249.	1.6	68
59	Diurnal and seasonal dynamics of soil respiration in desert shrubland of <i>Artemisia Ordosica</i> on Ordos Plateau of Inner Mongolia, China. <i>Journal of Forestry Research</i> , 2007, 18, 231-235.	1.7	13
60	Effects of adding water on seasonal variation of soil nitrogen availability under sandy grasslands in semi-arid region. <i>Journal of Forestry Research</i> , 2007, 18, 287-290.	1.7	1
61	A stochastic model for daily subsurface CO ₂ concentration and related soil respiration. <i>Advances in Water Resources</i> , 2008, 31, 987-994.	1.7	56
62	Fungal control of nitrous oxide production in semiarid grassland. <i>Biogeochemistry</i> , 2008, 87, 17-27.	1.7	130
63	Responses of soil microorganisms to resource availability in urban, desert soils. <i>Biogeochemistry</i> , 2008, 87, 143-155.	1.7	44
64	Distribution of ecosystem C and N within contrasting vegetation types in a semiarid rangeland in the Great Basin, USA. <i>Biogeochemistry</i> , 2008, 90, 291-308.	1.7	48
65	Forest-scale sap flux responses to rainfall in a dryland eucalyptus plantation. <i>Plant and Soil</i> , 2008, 305, 131-144.	1.8	15
66	Responses of Benthic Bacteria to Experimental Drying in Sediments from Mediterranean Temporary Rivers. <i>Microbial Ecology</i> , 2008, 55, 270-279.	1.4	117
67	Soil Microbial Responses to Temporal Variations of Moisture and Temperature in a Chihuahuan Desert Grassland. <i>Microbial Ecology</i> , 2008, 56, 153-167.	1.4	159
68	Evidence that Ammonia-Oxidizing Archaea are More Abundant than Ammonia-Oxidizing Bacteria in Semiarid Soils of Northern Arizona, USA. <i>Microbial Ecology</i> , 2008, 56, 420-426.	1.4	144
69	Effects of Urbanization-Induced Environmental Changes on Ecosystem Functioning in the Phoenix Metropolitan Region, USA. <i>Ecosystems</i> , 2008, 11, 138-155.	1.6	77
70	Soil Texture Drives Responses of Soil Respiration to Precipitation Pulses in the Sonoran Desert: Implications for Climate Change. <i>Ecosystems</i> , 2008, 11, 961-979.	1.6	192
71	Controls over nitric oxide and ammonia emissions from Mojave Desert soils. <i>Oecologia</i> , 2008, 156, 871-881.	0.9	76
72	Effects of simulated daily precipitation patterns on annual plant populations depend on life stage and climatic region. <i>BMC Ecology</i> , 2008, 8, 4.	3.0	10
73	A review of groundwater-surface water interactions in arid/semi-arid wetlands and the consequences of salinity for wetland ecology. <i>Ecohydrology</i> , 2008, 1, 43-58.	1.1	254
74	Water, temperature, and vegetation regulation of methyl chloride and methyl bromide fluxes from a shortgrass steppe ecosystem. <i>Global Change Biology</i> , 2008, 14, 77-91.	4.2	21
75	The sensitivity of annual grassland carbon cycling to the quantity and timing of rainfall. <i>Global Change Biology</i> , 2008, 14, 1382-1394.	4.2	178

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76	Large annual net ecosystem CO ₂ uptake of a Mojave Desert ecosystem. <i>Global Change Biology</i> , 2008, 14, 1475-1487.	4.2	226
77	Persistent effects of a discrete warming event on a polar desert ecosystem. <i>Global Change Biology</i> , 2008, 14, 2249-2261.	4.2	119
78	Pulse dynamics and microbial processes in aridland ecosystems. <i>Journal of Ecology</i> , 2008, 96, 413-420.	1.9	330
79	Translocation of nitrogen and carbon integrates biotic crust and grass production in desert grassland. <i>Journal of Ecology</i> , 2008, 96, 1076-1085.	1.9	134
80	Moisture pulses, trace gas emissions and soil C and N in cheatgrass and native grass-dominated sagebrush-steppe in Wyoming, USA. <i>Soil Biology and Biochemistry</i> , 2008, 40, 1421-1431.	4.2	89
81	Response of gross ecosystem productivity, light use efficiency, and water use efficiency of Mongolian steppe to seasonal variations in soil moisture. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	31
82	Precipitation thresholds for CO ₂ uptake in grass and shrub plant communities on Walnut Gulch Experimental Watershed. <i>Water Resources Research</i> , 2008, 44, .	1.7	30
83	Substrate age and tree islands influence carbon and nitrogen dynamics across a retrogressive semiarid chronosequence. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	1.9	65
84	Changes in the soil C cycle at the arid-hyperarid transition in the Atacama Desert. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	53
85	Hot spots and hot moments of carbon and nitrogen dynamics in a semiarid riparian zone. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	95
86	Probabilistic dynamics of soil nitrate: Coupling of ecohydrological and biogeochemical processes. <i>Water Resources Research</i> , 2008, 44, .	1.7	29
87	Do litter decomposition and nitrogen mineralization show the same trend in the response to dry and wet years in the Patagonian steppe?. <i>Journal of Arid Environments</i> , 2008, 72, 687-695.	1.2	25
88	Hydraulic lift in three shrub species from the Chilean coastal desert. <i>Journal of Arid Environments</i> , 2008, 72, 624-632.	1.2	54
89	Understanding the origin and fate of nitrate in groundwater of semi-arid environments. <i>Journal of Arid Environments</i> , 2008, 72, 1830-1842.	1.2	66
90	Comparison of eddy covariance, chamber, and gradient methods of measuring soil CO ₂ efflux in an annual semi-arid grass, <i>Bromus tectorum</i> . <i>Agricultural and Forest Meteorology</i> , 2008, 148, 1894-1907.	1.9	63
91	Wetlands as principal zones of methylmercury production in southern Louisiana and the Gulf of Mexico region. <i>Environmental Pollution</i> , 2008, 154, 124-134.	3.7	172
92	Water relations and mineral nutrition of closely related woody plant species on desert dunes and interdunes. <i>Australian Journal of Botany</i> , 2008, 56, 27.	0.3	48
93	Aboveground net primary production dynamics in a northern Chihuahuan Desert ecosystem. <i>Oecologia</i> , 2008, 155, 123-132.	0.9	184

#	ARTICLE	IF	CITATIONS
94	Consequences of More Extreme Precipitation Regimes for Terrestrial Ecosystems. <i>BioScience</i> , 2008, 58, 811-821.	2.2	959
95	Novel Root Fungal Consortium Associated with a Dominant Desert Grass. <i>Applied and Environmental Microbiology</i> , 2008, 74, 2805-2813.	1.4	189
96	Different growth responses of C3 and C4 grasses to seasonal water and nitrogen regimes and competition in a pot experiment. <i>Journal of Experimental Botany</i> , 2008, 59, 1431-1439.	2.4	38
97	THE INFLUENCE OF DRAINAGE NETWORKS ON PATTERNS OF SOIL RESPIRATION IN A DESERT CATCHMENT. <i>Ecology</i> , 2008, 89, 1089-1100.	1.5	36
98	Water relations and mineral nutrition of <i>Triodia</i> grasses on desert dunes and interdunes. <i>Australian Journal of Botany</i> , 2008, 56, 408.	0.3	24
99	Creating Invasion Resistant Soils via Nitrogen Management. <i>Invasive Plant Science and Management</i> , 2008, 1, 304-314.	0.5	60
100	Parallel ecological networks in ecosystems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 1755-1779.	1.8	136
101	Interaction of position, litter type, and water pulses on decomposition of grasses from the semiarid Patagonian steppe. <i>Ecology</i> , 2009, 90, 2642-2647.	1.5	57
102	Soil carbon and nitrogen mineralization: Theory and models across scales. <i>Soil Biology and Biochemistry</i> , 2009, 41, 1355-1379.	4.2	598
103	Spatial heterogeneity provides organic matter refuges for soil microbial activity in the Patagonian steppe, Argentina. <i>Soil Biology and Biochemistry</i> , 2009, 41, 1348-1351.	4.2	45
104	Long-term experimental warming reduces soil nematode populations in the McMurdo Dry Valleys, Antarctica. <i>Soil Biology and Biochemistry</i> , 2009, 41, 2052-2060.	4.2	90
105	Origin and dynamics of dissolved and particulate nutrients in a minimally disturbed Mediterranean river with intermittent flow. <i>Journal of Hydrology</i> , 2009, 373, 218-229.	2.3	39
106	Landscape Distribution of Microbial Activity in the McMurdo Dry Valleys: Linked Biotic Processes, Hydrology, and Geochemistry in a Cold Desert Ecosystem. <i>Ecosystems</i> , 2009, 12, 562-573.	1.6	68
107	Conservation of nitrogen increases with precipitation across a major grassland gradient in the Central Great Plains of North America. <i>Oecologia</i> , 2009, 159, 571-581.	0.9	89
108	Wetting and drying cycles drive variations in the stable carbon isotope ratio of respired carbon dioxide in semi-arid grassland. <i>Oecologia</i> , 2009, 160, 321-333.	0.9	27
109	Complexity in water and carbon dioxide fluxes following rain pulses in an African savanna. <i>Oecologia</i> , 2009, 161, 469-480.	0.9	89
110	Distribution and mobility of Cr in tannery waste amended semi-arid soils under simulated rainfall. <i>Journal of Hazardous Materials</i> , 2009, 171, 851-858.	6.5	15
111	Nitrate sources and watershed denitrification inferred from nitrate dual isotopes in the Beijiang River, south China. <i>Biogeochemistry</i> , 2009, 94, 163-174.	1.7	149

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112	Woody plant encroachment impacts on soil carbon and microbial processes: results from a hierarchical Bayesian analysis of soil incubation data. <i>Plant and Soil</i> , 2009, 320, 153-167.	1.8	41
113	Variability in amount and frequency of water supply affects roots but not growth of arid shrubs. <i>Plant Ecology</i> , 2009, 204, 261-270.	0.7	80
114	Spatial and temporal litterfall heterogeneity generated by woody species in the Central Monte desert. <i>Plant Ecology</i> , 2009, 205, 295-303.	0.7	26
115	Seasonal patterns of soil respiration in three types of communities along grass-desert shrub transition in Inner Mongolia, China. <i>Advances in Atmospheric Sciences</i> , 2009, 26, 503-512.	1.9	11
116	Reappraisal of drying and wetting effects on C and N mineralization and fluxes in soils. <i>Global Change Biology</i> , 2009, 15, 808-824.	4.2	913
117	Physiological responses of two contrasting desert plant species to precipitation variability are differentially regulated by soil moisture and nitrogen dynamics. <i>Global Change Biology</i> , 2009, 15, 1214-1229.	4.2	40
118	Dependence of carbon sequestration on the differential responses of ecosystem photosynthesis and respiration to rain pulses in a semiarid steppe. <i>Global Change Biology</i> , 2009, 15, 2450-2461.	4.2	190
119	Cross-biome transplants of plant litter show decomposition models extend to a broader climatic range but lose predictability at the decadal time scale. <i>Global Change Biology</i> , 2010, 16, 1744-1761.	4.2	111
120	Limits of life in hostile environments: no barriers to biosphere function?. <i>Environmental Microbiology</i> , 2009, 11, 3292-3308.	1.8	143
121	Global-scale patterns of nutrient resorption associated with latitude, temperature and precipitation. <i>Global Ecology and Biogeography</i> , 2009, 18, 11-18.	2.7	228
122	Global trends in senesced-leaf nitrogen and phosphorus. <i>Global Ecology and Biogeography</i> , 2009, 18, 532-542.	2.7	220
123	Precipitation timing and magnitude differentially affect aboveground annual net primary productivity in three perennial species in a Chihuahuan Desert grassland. <i>New Phytologist</i> , 2009, 181, 230-242.	3.5	118
124	Precipitation variability and primary productivity in water-limited ecosystems: how plants "leverage" precipitation to "finance" growth. <i>New Phytologist</i> , 2009, 181, 5-8.	3.5	28
125	Interactions Between Biogeochemistry and Hydrologic Systems. <i>Annual Review of Environment and Resources</i> , 2009, 34, 65-96.	5.6	138
126	Quantifying Crop Responses to Nitrogen Deficiency and Avenues to Improve Nitrogen Use Efficiency. , 2009, , 171-211.		49
127	Can pine forest restoration promote a diverse and abundant understory and simultaneously resist nonnative invasion?. <i>Forest Ecology and Management</i> , 2009, 258, 2638-2646.	1.4	33
128	Dynamics of dissolved iron under pedohydrological regime caused by pulsed rainfall events in wetland soils. <i>Geoderma</i> , 2009, 150, 46-53.	2.3	23
129	Nitrogen mineralization across an atmospheric nitrogen deposition gradient in Southern California deserts. <i>Journal of Arid Environments</i> , 2009, 73, 920-930.	1.2	36

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130	Spatiotemporal heterogeneity of soil fertility in the Central Monte desert (Argentina). <i>Journal of Arid Environments</i> , 2009, 73, 901-906.	1.2	34
131	Differential soil respiration responses to changing hydrologic regimes. <i>Water Resources Research</i> , 2009, 45, .	1.7	41
132	Multiyear Total and Methyl Mercury Exports from Two Major Sub-Arctic Rivers Draining into Hudson Bay, Canada. <i>Environmental Science & Technology</i> , 2009, 43, 2254-2261.	4.6	54
133	Soil Microbial Properties Along a Precipitation Transect in Southern Africa. <i>Arid Land Research and Management</i> , 2009, 23, 115-126.	0.6	24
134	Photochemically induced carbon dioxide production as a mechanism for carbon loss from plant litter in arid ecosystems. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	107
135	Precipitation Pulses and Soil CO ₂ Emission in Desert Shrubland of <i>Artemisia ordosica</i> on the Ordos Plateau of Inner Mongolia, China. <i>Pedosphere</i> , 2009, 19, 799-807.	2.1	24
136	Spatial and temporal heterogeneity of <i>Eragrostis curvula</i> in the downstream flood meadow of a regulated river. <i>Annales De Limnologie</i> , 2009, 45, 181-193.	0.6	35
137	Linking precipitation and C ₃ –C ₄ plant production to resource dynamics in higher-trophic-level consumers. <i>Ecology</i> , 2010, 91, 1628-1638.	1.5	44
138	Risk-based determination of critical nitrogen deposition loads for fire spread in southern California deserts. <i>Ecological Applications</i> , 2010, 20, 1320-1335.	1.8	59
139	Phosphorus and soil development: Does the Walker and Syers model apply to semiarid ecosystems?. <i>Ecology</i> , 2010, 91, 474-484.	1.5	111
140	Effects of Elevated CO ₂ and Agricultural Management on Flux of Greenhouse Gases From Soil. <i>Soil Science</i> , 2010, 175, 349-356.	0.9	27
141	Atmospheric nitrogen budget in Sahelian dry savannas. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2691-2708.	1.9	48
142	Rewetting CO ₂ pulses in Australian agricultural soils and the influence of soil properties. <i>Biology and Fertility of Soils</i> , 2010, 46, 739-753.	2.3	78
143	Size of Precipitation Pulses Controls Nitrogen Transformation and Losses in an Arid Patagonian Ecosystem. <i>Ecosystems</i> , 2010, 13, 575-585.	1.6	77
144	The Role of Photodegradation in Surface Litter Decomposition Across a Grassland Ecosystem Precipitation Gradient. <i>Ecosystems</i> , 2010, 13, 765-781.	1.6	161
145	Forestry insularity effect of four <i>Mimosa L.</i> species (Leguminosae-Mimosoideae) on soil nutrients of a Mexican semiarid ecosystem. <i>Agroforestry Systems</i> , 2010, 80, 385-397.	0.9	23
146	Short-term soil inorganic N pulse after experimental fire alters invasive and native annual plant production in a Mojave Desert shrubland. <i>Oecologia</i> , 2010, 164, 253-263.	0.9	61
147	A long-term annual water balance analysis of the Araçuaí-River Basin, Brazil. <i>Journal of Chinese Geography</i> , 2010, 20, 938-946.	1.5	3

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148	Do changes in flood pulse duration disturb soil carbon dioxide emissions in semi-arid floodplains?. <i>Biogeochemistry</i> , 2010, 101, 257-267.	1.7	18
149	Spatial versus temporal variation in precipitation in a semiarid ecosystem. <i>Landscape Ecology</i> , 2010, 25, 913-925.	1.9	47
150	Nitrogen fertilization and water supply affect germination and plant establishment of the soil seed bank present in a semi-arid Mediterranean scrubland. <i>Plant Ecology</i> , 2010, 210, 263-273.	0.7	41
151	The response of ecosystem CO ₂ exchange to small precipitation pulses over a temperate steppe. <i>Plant Ecology</i> , 2010, 209, 335-347.	0.7	41
152	Effects of N and water supply on water use-efficiency of a semiarid grassland in Inner Mongolia. <i>Plant and Soil</i> , 2010, 328, 495-505.	1.8	50
153	Phenotypic plasticity of the coarse root system of <i>Prosopis flexuosa</i> , a phreatophyte tree, in the Monte Desert (Argentina). <i>Plant and Soil</i> , 2010, 330, 447-464.	1.8	44
154	Plant phenology and life span influence soil pool dynamics: <i>Bromus tectorum</i> invasion of perennial C3&C4 grass communities. <i>Plant and Soil</i> , 2010, 335, 255-269.	1.8	41
155	Alternate partial root-zone irrigation induced dry/wet cycles of soils stimulate N mineralization and improve N nutrition in tomatoes. <i>Plant and Soil</i> , 2010, 337, 167-177.	1.8	58
156	Combined effects of short term rainfall patterns and soil texture on soil nitrogen cycling – A modeling analysis. <i>Journal of Contaminant Hydrology</i> , 2010, 112, 141-154.	1.6	71
157	Effects of soil moisture and temperature on CO ₂ and CH ₄ soil-atmosphere exchange of various land use/cover types in a semi-arid grassland in Inner Mongolia, China. <i>Soil Biology and Biochemistry</i> , 2010, 42, 773-787.	4.2	153
158	The influence of precipitation pulses on soil respiration – Assessing the “Birch effect” by stable carbon isotopes. <i>Soil Biology and Biochemistry</i> , 2010, 42, 1800-1810.	4.2	209
159	Influence of the hydrologic regime on resource availability in a semi-arid stream-riparian corridor. <i>Ecohydrology</i> , 2010, 3, 349-359.	1.1	28
160	A stochastic model for vegetation water stress. <i>Ecohydrology</i> , 2010, 3, 177-188.	1.1	5
161	River flood plains are model ecosystems to test general hydrogeomorphic and ecological concepts. <i>River Research and Applications</i> , 2010, 26, 76-86.	0.7	147
162	<i>In situ</i> short-term carbon and nitrogen dynamics in relation to microbial dynamics after a simulated rainfall in croplands of different soil texture in Thailand. <i>Soil Science and Plant Nutrition</i> , 2010, 56, 813-823.	0.8	11
163	Emerging concepts in temporary river ecology. <i>Freshwater Biology</i> , 2010, 55, 717-738.	1.2	552
164	Carbon-nitrogen interactions in fertility island soil from a tropical semi-arid ecosystem. <i>Functional Ecology</i> , 2010, 24, 233-242.	1.7	44
165	Bryophytes and Lichens in a Changing Climate: An Antarctic Perspective. , 2011, , 251-274.		5

#	ARTICLE	IF	CITATIONS
166	Modelling the inorganic nitrogen behaviour in a small Mediterranean forested catchment, Fuirosos (Catalonia). <i>Hydrology and Earth System Sciences</i> , 2010, 14, 223-237.	1.9	10
167	Development of a Soil N Test for Fertilizer Requirements for Corn Production in Quebec. <i>Communications in Soil Science and Plant Analysis</i> , 2010, 42, 50-65.	0.6	21
168	The sensitivity of temperate steppe CO ₂ exchange to the quantity and timing of natural interannual rainfall. <i>Ecological Informatics</i> , 2010, 5, 222-228.	2.3	34
169	Soil-atmosphere exchange potential of NO and N ₂ O in different land use types of Inner Mongolia as affected by soil temperature, soil moisture, freeze-thaw, and drying-wetting events. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	56
170	Partitioning evapotranspiration across gradients of woody plant cover: Assessment of a stable isotope technique. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	179
171	Carbon, water, and energy fluxes in a semiarid cold desert grassland during and following multiyear drought. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	62
172	Water deficit and nitrogen nutrition of crops. A review. <i>Agronomy for Sustainable Development</i> , 2010, 30, 529-544.	2.2	215
173	Soil carbon change and its affecting factors following afforestation in China. <i>Landscape and Urban Planning</i> , 2010, 98, 75-85.	3.4	35
174	Rapid plant community responses during the summer monsoon to nighttime warming in a northern Chihuahuan Desert grassland. <i>Journal of Arid Environments</i> , 2010, 74, 611-617.	1.2	35
175	Reversal of desertification: The role of physical and chemical soil properties. <i>Journal of Arid Environments</i> , 2010, 74, 973-977.	1.2	61
176	Factors contributing to nitrate accumulation in mesic desert vadose zones in Spanish Springs Valley, Nevada (USA). <i>Journal of Arid Environments</i> , 2010, 74, 1033-1040.	1.2	8
177	Soil respiration and net primary productivity in perennial grass and desert shrub ecosystems at the Ordos Plateau of Inner Mongolia, China. <i>Journal of Arid Environments</i> , 2010, 74, 1248-1256.	1.2	14
178	Significance of temperature and soil water content on soil respiration in three desert ecosystems in Northwest China. <i>Journal of Arid Environments</i> , 2010, 74, 1200-1211.	1.2	72
179	Local and regional trends in the ground vegetation of beech forests. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2010, 205, 484-498.	0.6	17
180	Ecophysiology of Prosopis Species From the Arid Lands of Argentina: What Do We Know About Adaptation to Stressful Environments?. , 2010, , 321-340.		23
181	Spatiotemporal environmental variation, risk aversion, and the evolution of cooperative breeding as a bet-hedging strategy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10816-10822.	3.3	111
182	The Rancher's ALMANAC. <i>Rangelands</i> , 2011, 33, 10-16.	0.9	2
183	Chronic N loading reduces N retention across varying base flows in a desert river. <i>Journal of the North American Benthological Society</i> , 2011, 30, 559-572.	3.0	7

#	ARTICLE	IF	CITATIONS
184	Comparison of Soil Properties and Microbial Activities between Air-Dried and Rewetted Desert and Oasis Soils in Northwest China. <i>Communications in Soil Science and Plant Analysis</i> , 2011, 42, 1833-1846.	0.6	6
185	Variability of heterotrophic metabolism in small stream corridors of an early successional watershed. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	16
186	Soil water availability and microsite mediate fungal and bacterial phospholipid fatty acid biomarker abundances in Mojave Desert soils exposed to elevated atmospheric CO ₂ . <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	16
187	Nitrate dynamics in the soil and unconfined aquifer in arid groundwater coupled ecosystems of the Monte desert, Argentina. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	20
188	Rain pulse response of soil CO ₂ exchange by biological soil crusts and grasslands of the semiarid Colorado Plateau, United States. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	61
189	Primary Productivity and Biogeochemistry of Seasonally Dry Tropical Forests. , 2011, , 109-128.		42
190	Soil nitrogen availability and transformations differ between the summer and the growing season in a California grassland. <i>Applied Soil Ecology</i> , 2011, 48, 185-192.	2.1	130
191	Linking spatial patterns of soil organic carbon to topography – A case study from south-eastern Spain. <i>Geomorphology</i> , 2011, 126, 252-263.	1.1	116
192	Reproductive phenology of the Caribbean cactus <i>Harrisia portoricensis</i> : rainfall and temperature associations. <i>Botany</i> , 2011, 89, 861-871.	0.5	17
193	Extracellular polysaccharides from cyanobacterial soil crusts: A review of their role in dryland soil processes. <i>Journal of Arid Environments</i> , 2011, 75, 91-97.	1.2	265
194	Water relations and hydraulic architecture of two Patagonian steppe shrubs: Effect of slope orientation and microclimate. <i>Journal of Arid Environments</i> , 2011, 75, 763-772.	1.2	9
195	Has water limited our imagination for aridland biogeochemistry?. <i>Trends in Ecology and Evolution</i> , 2011, 26, 229-235.	4.2	166
196	Randomization tests for quantifying species importance to ecosystem function. <i>Methods in Ecology and Evolution</i> , 2011, 2, 634-642.	2.2	47
197	The Rancher's ALMANAC. <i>Rangelands</i> , 2011, 33, .	0.9	0
198	Vegetation of the dryland regions. , 0, , 46-64.		0
200	Hydrologic processes in the drylands. , 0, , 212-229.		0
201	Plant N Fluxes and Modulation by Nitrogen, Heat and Water Stresses: A Review Based on Comparison of Legumes and Non Legume Plants. , 0, , .		24
202	The effect of long-term exposure to elevated CO ₂ on nitrogen gas emissions from Mojave Desert soils. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	8

#	ARTICLE	IF	CITATIONS
203	Do grazers alter nitrogen dynamics on grazing lawns in a South African savannah?. African Journal of Ecology, 2011, 49, 62-69.	0.4	44
204	Soil-nutrient availability under a global-change scenario in a Mediterranean mountain ecosystem. Global Change Biology, 2011, 17, 1646-1657.	4.2	96
205	Soil water repellency and its implications for organic matter decomposition - is there a link to extreme climatic events?. Global Change Biology, 2011, 17, 2640-2656.	4.2	191
206	Reductions in daily soil temperature variability increase soil microbial biomass C and decrease soil N availability in the Chihuahuan Desert: potential implications for ecosystem C and N fluxes. Global Change Biology, 2011, 17, 3564-3576.	4.2	30
207	Response of feather moss associated N_2 fixation and litter decomposition to variations in simulated rainfall intensity and frequency. Oikos, 2011, 120, 570-581.	1.2	55
208	Few apparent short-term effects of elevated soil temperature and increased frequency of summer precipitation on the abundance and taxonomic diversity of desert soil micro- and meso-fauna. Soil Biology and Biochemistry, 2011, 43, 1474-1481.	4.2	58
209	Changes in variability of soil moisture alter microbial community C and N resource use. Soil Biology and Biochemistry, 2011, 43, 1837-1847.	4.2	151
210	Nitrogen deposition effects on Mediterranean-type ecosystems: An ecological assessment. Environmental Pollution, 2011, 159, 2265-2279.	3.7	130
211	Modelling soil carbon and nitrogen cycles during land use change. A review. Agronomy for Sustainable Development, 2011, 31, 251-274.	2.2	83
212	Effects of fertilization and irrigation on productivity, plant nutrient contents and soil nutrients in southern Mongolia. Plant and Soil, 2011, 340, 239-251.	1.8	37
213	Nitrogen availability in a grazed semi-arid grassland is dominated by seasonal rainfall. Plant and Soil, 2011, 340, 157-167.	1.8	45
214	Nitrogen partitioning between microbes and plants in the shortgrass steppe. Plant and Soil, 2011, 342, 445-457.	1.8	10
215	Changes in water content of two agricultural soils does not alter labile P and C pools. Plant and Soil, 2011, 348, 185-201.	1.8	10
216	Spatial variability of soil metabolic rate along a dryland elevation gradient. Landscape Ecology, 2011, 26, 1111-1123.	1.9	15
217	Effects of natural and anthropogenic gradients on native and exotic winter annuals in a southern California Desert. Plant Ecology, 2011, 212, 1079-1089.	0.7	19
218	Rainfall drives leaf traits and leaf nutrient resorption in a tropical dry forest in Mexico. Oecologia, 2011, 165, 201-211.	0.9	55
219	Seasonal and episodic moisture controls on plant and microbial contributions to soil respiration. Oecologia, 2011, 167, 265-278.	0.9	169
220	Responses of Soil CO ₂ Efflux to Precipitation Pulses in Two Subtropical Forests in Southern China. Environmental Management, 2011, 48, 1182-1188.	1.2	21

#	ARTICLE	IF	CITATIONS
221	Bacterial Community Structure Along Moisture Gradients in the Parafluvial Sediments of Two Ephemeral Desert Streams. <i>Microbial Ecology</i> , 2011, 61, 543-556.	1.4	107
222	Common hydrologic and biogeochemical controls along the soil–stream continuum. <i>Hydrological Processes</i> , 2011, 25, 1355-1360.	1.1	31
223	Spatial variability of soil nutrients and microbiological properties after the establishment of leguminous shrub <i>Caragana microphylla</i> Lam. plantation on sand dune in the Horqin Sandy Land of Northeast China. <i>Ecological Engineering</i> , 2011, 37, 1467-1475.	1.6	120
224	Variation in carbon isotope discrimination in <i>Cleistogenes squarrosa</i> (Trin.) Keng: patterns and drivers at tiller, local, catchment, and regional scales. <i>Journal of Experimental Botany</i> , 2011, 62, 4143-4152.	2.4	19
225	Productivity of well-watered <i>Panicum virgatum</i> does not increase with CO ₂ enrichment. <i>Journal of Plant Ecology</i> , 2012, 5, 366-375.	1.2	8
226	Interactive effects of water and nitrogen addition on soil microbial communities in a semiarid steppe. <i>Journal of Plant Ecology</i> , 2012, 5, 320-329.	1.2	76
227	Soil metabolic pulses: water, substrate, and biological regulation. <i>Ecology</i> , 2012, 93, 959-966.	1.5	45
228	TRACING NITROGEN IN SOIL-ROOT-PETIOLE-LEAF CONTINUUM IN SUGAR BEETS: CAN SPAD-502 HELP?. <i>Journal of Plant Nutrition</i> , 2012, 35, 556-566.	0.9	4
229	Short-term effects of elevated precipitation and nitrogen on soil fertility and plant growth in a Neotropical savanna. <i>Ecosphere</i> , 2012, 3, 1-20.	1.0	17
230	Annual grassland resource pools and fluxes: sensitivity to precipitation and dry periods on two contrasting soils. <i>Ecosphere</i> , 2012, 3, art70-art70.	1.0	5
231	Comparison of water availability effect on ammonia-oxidizing bacteria and archaea in microcosms of a Chilean semiarid soil. <i>Frontiers in Microbiology</i> , 2012, 3, 282.	1.5	14
232	Dryland ecohydrology and climate change: critical issues and technical advances. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 2585-2603.	1.9	241
233	Climate change alters stoichiometry of phosphorus and nitrogen in a semiarid grassland. <i>New Phytologist</i> , 2012, 196, 807-815.	3.5	209
234	Nitrogen cycling and water pulses in semiarid grasslands: are microbial and plant processes temporally asynchronous?. <i>Oecologia</i> , 2012, 170, 799-808.	0.9	90
235	Greenhouse gas fluxes from Atacama Desert soils: a test of biogeochemical potential at the Earth's arid extreme. <i>Biogeochemistry</i> , 2012, 111, 303-315.	1.7	9
236	Effects of precipitation pulses on water and carbon dioxide fluxes in two semiarid ecosystems: measurement and modeling. <i>Environmental Earth Sciences</i> , 2012, 67, 2315-2324.	1.3	20
237	Meltwater seep patches increase heterogeneity of soil geochemistry and therefore habitat suitability. <i>Geoderma</i> , 2012, 189-190, 652-660.	2.3	20
238	It is getting hotter in here: determining and projecting the impacts of global environmental change on drylands. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 3062-3075.	1.8	243

#	ARTICLE	IF	CITATIONS
239	Assessing the Role of Parameter and Input Uncertainty in Ecohydrologic Modeling: Implications for a Semi-arid and Urbanizing Coastal California Catchment. <i>Ecosystems</i> , 2012, 15, 775-791.	1.6	28
240	Appropriate nitrogen supply could improve soil microbial and chemical characteristics with <i>Sophora davidii</i> seedlings cultivated in water stress conditions. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2012, 62, 49-58.	0.3	4
241	Precipitation-driven carbon balance controls survivorship of desert biocrust mosses. <i>Ecology</i> , 2012, 93, 1626-1636.	1.5	104
242	Thawing permafrost alters nematode populations and soil habitat characteristics in an Antarctic polar desert ecosystem. <i>Pedobiologia</i> , 2012, 55, 75-81.	0.5	14
243	Soil chemical properties in abandoned Mediterranean cropland after succession and oak reforestation. <i>Acta Oecologica</i> , 2012, 38, 58-65.	0.5	28
244	Molecular discrimination of bacteria (organic versus mineral soil layers) of dry woodlands of Argentina. <i>Journal of Arid Environments</i> , 2012, 85, 18-26.	1.2	11
245	Characteristics of carbon flux in two biologically crusted soils in the Gurbantunggut Desert, Northwestern China. <i>Catena</i> , 2012, 96, 41-48.	2.2	29
246	Effect of wetting intensity on soil GHG fluxes and microbial biomass under a temperate forest floor during dry season. <i>Geoderma</i> , 2012, 170, 118-126.	2.3	32
247	Precipitation variability and fire influence the temporal dynamics of soil CO_2 efflux in an arid grassland. <i>Global Change Biology</i> , 2012, 18, 1401-1411.	4.2	113
248	Responses of soil microbial communities to water stress: results from a meta-analysis. <i>Ecology</i> , 2012, 93, 930-938.	1.5	830
249	Shrub encroachment alters sensitivity of soil respiration to temperature and moisture. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	28
250	Responses of trace gases to hydrologic pulses in desert floodplains. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	36
251	Nitrification activity and levels of inorganic nitrogen in soils of a semi-arid ecosystem following a drought-induced shrub death. <i>European Journal of Soil Biology</i> , 2012, 53, 86-93.	1.4	23
252	Quantifying the effects of stream channels on storm water quality in a semi-arid urban environment. <i>Journal of Hydrology</i> , 2012, 470-471, 98-110.	2.3	13
253	Effects of wild boar disturbance on vegetation and soil properties in the Monte Desert, Argentina. <i>Mammalian Biology</i> , 2012, 77, 299-306.	0.8	47
254	Effects of soil rewetting and thawing on soil gas fluxes: a review of current literature and suggestions for future research. <i>Biogeosciences</i> , 2012, 9, 2459-2483.	1.3	378
255	Transport of biologically important nutrients by wind in an eroding cold desert. <i>Aeolian Research</i> , 2012, 7, 17-27.	1.1	21
256	Exploring short-term leaf-litter decomposition dynamics in a Mediterranean ecosystem: dependence on litter type and site conditions. <i>Plant and Soil</i> , 2012, 358, 323-335.	1.8	20

#	ARTICLE	IF	CITATIONS
258	Soil Property Control of Biogeochemical Processes beneath Two Subtropical Stormwater Infiltration Basins. <i>Journal of Environmental Quality</i> , 2012, 41, 564-581.	1.0	4
259	Large Rainfall Pulses Control Litter Decomposition in a Tropical Dry Forest: Evidence from an 8-Year Study. <i>Ecosystems</i> , 2012, 15, 652-663.	1.6	52
260	Microbial colonization and controls in dryland systems. <i>Nature Reviews Microbiology</i> , 2012, 10, 551-562.	13.6	552
261	Characterizing ecohydrological and biogeochemical connectivity across multiple scales: a new conceptual framework. <i>Ecohydrology</i> , 2012, 5, 221-233.	1.1	17
262	Understanding ecohydrological connectivity in savannas: a system dynamics modelling approach. <i>Ecohydrology</i> , 2012, 5, 200-220.	1.1	31
263	Drying and wetting in saline and saline-sodic soils—effects on microbial activity, biomass and dissolved organic carbon. <i>Plant and Soil</i> , 2012, 355, 51-62.	1.8	40
264	Warming and increased precipitation frequency on the Colorado Plateau: implications for biological soil crusts and soil processes. <i>Plant and Soil</i> , 2012, 355, 265-282.	1.8	105
265	Resource-use efficiencies of three indigenous tree species planted in resource islands created by shrubs: implications for reforestation of subtropical degraded shrublands. <i>Plant Ecology</i> , 2012, 213, 1177-1185.	0.7	10
266	Dynamics of soil extractable carbon and nitrogen under different cover crop residues. <i>Journal of Soils and Sediments</i> , 2012, 12, 844-853.	1.5	28
267	Soil microbial community response to drying and rewetting stress: does historical precipitation regime matter?. <i>Biogeochemistry</i> , 2012, 109, 101-116.	1.7	360
268	Impact of precipitation dynamics on net ecosystem productivity. <i>Global Change Biology</i> , 2012, 18, 915-927.	4.2	143
269	The effect of experimental warming and precipitation change on proteolytic enzyme activity: positive feedbacks to nitrogen availability are not universal. <i>Global Change Biology</i> , 2012, 18, 2617-2625.	4.2	80
270	Sensitivity of mean annual primary production to precipitation. <i>Global Change Biology</i> , 2012, 18, 2246-2255.	4.2	201
271	Increased temperature and altered summer precipitation have differential effects on biological soil crusts in a dryland ecosystem. <i>Global Change Biology</i> , 2012, 18, 2583-2593.	4.2	113
272	Carbon dioxide exchange over multiple temporal scales in an arid shrub ecosystem near La Paz, Baja California Sur, Mexico. <i>Global Change Biology</i> , 2012, 18, 2570-2582.	4.2	32
273	Effects of land management on CO ₂ flux and soil C stock in two Tanzanian croplands with contrasting soil texture. <i>Soil Biology and Biochemistry</i> , 2012, 46, 1-9.	4.2	44
274	Vegetation cover and rain timing co-regulate the responses of soil CO ₂ efflux to rain increase in an arid desert ecosystem. <i>Soil Biology and Biochemistry</i> , 2012, 49, 114-123.	4.2	40
275	Tracking C and N flows through microbial biomass with increased soil moisture variability. <i>Soil Biology and Biochemistry</i> , 2012, 49, 11-22.	4.2	17

#	ARTICLE	IF	CITATIONS
276	New evidence that high potential nitrification rates occur in soils during dry seasons: Are microbial communities metabolically active during dry seasons?. <i>Soil Biology and Biochemistry</i> , 2012, 53, 28-31.	4.2	37
277	Cyclic biogeochemical processes and nitrogen fate beneath a subtropical stormwater infiltration basin. <i>Journal of Contaminant Hydrology</i> , 2012, 133, 53-75.	1.6	15
278	The impacts of sediment released from dams on downstream sediment bar vegetation. <i>Journal of Hydrology</i> , 2012, 430-431, 25-38.	2.3	63
279	Variations in water and CO ₂ fluxes over a saline desert in western China. <i>Hydrological Processes</i> , 2012, 26, 513-522.	1.1	58
280	The effects of drying on sediment nitrogen content in a Mediterranean intermittent stream: a microcosms study. <i>Hydrobiologia</i> , 2012, 679, 43-59.	1.0	53
281	Deep Autotrophic Soil Respiration in Shrubland and Woodland Ecosystems in Central New Mexico. <i>Ecosystems</i> , 2012, 15, 83-96.	1.6	27
282	Do soil organisms affect aboveground litter decomposition in the semiarid Patagonian steppe, Argentina?. <i>Oecologia</i> , 2012, 168, 221-230.	0.9	41
283	The effect of hydraulic lift on organic matter decomposition, soil nitrogen cycling, and nitrogen acquisition by a grass species. <i>Oecologia</i> , 2012, 168, 11-22.	0.9	55
284	Interactions between soil, rainfall, and wildlife drive surface water quality across a savanna ecosystem. <i>Ecohydrology</i> , 2013, 6, 94-103.	1.1	12
285	Spatial carbon and nitrogen distribution and organic matter characteristics of biological soil crusts in the Negev desert (Israel) along a rainfall gradient. <i>Journal of Arid Environments</i> , 2013, 94, 18-26.	1.2	39
286	Summer rain pulses may stimulate a CO ₂ release rather than absorption in desert halophyte communities. <i>Plant and Soil</i> , 2013, 373, 799-811.	1.8	13
287	Precipitation variability does not affect soil respiration and nitrogen dynamics in the understory of a Mediterranean oak woodland. <i>Plant and Soil</i> , 2013, 372, 235-251.	1.8	27
288	Biological soil crusts increase the resistance of soil nitrogen dynamics to changes in temperatures in a semi-arid ecosystem. <i>Plant and Soil</i> , 2013, 366, 35-47.	1.8	41
289	Biocrusts control the nitrogen dynamics and microbial functional diversity of semi-arid soils in response to nutrient additions. <i>Plant and Soil</i> , 2013, 372, 643-654.	1.8	48
290	Drying/rewetting cycles of the soil under alternate partial root-zone drying irrigation reduce carbon and nitrogen retention in the soil-plant systems of potato. <i>Agricultural Water Management</i> , 2013, 128, 85-91.	2.4	39
291	Resilience of montado understory to experimental precipitation variability fails under severe natural drought. <i>Agriculture, Ecosystems and Environment</i> , 2013, 178, 18-30.	2.5	30
292	Plant phenotypic functional composition effects on soil processes in a semiarid grassland. <i>Soil Biology and Biochemistry</i> , 2013, 66, 1-9.	4.2	6
293	Interannual variation in seasonal drivers of soil respiration in a semi-arid Rocky Mountain meadow. <i>Biogeochemistry</i> , 2013, 113, 683-697.	1.7	32

#	ARTICLE	IF	CITATIONS
294	Combined effects of snow depth and nitrogen addition on ephemeral growth at the southern edge of the Gurbantunggut Desert, China. <i>Journal of Arid Land</i> , 2013, 5, 500-510.	0.9	27
295	A spatial-explicit dynamic vegetation model that couples carbon, water, and nitrogen processes for arid and semiarid ecosystems. <i>Journal of Arid Land</i> , 2013, 5, 102-117.	0.9	21
296	Effects of experimental rainfall manipulations on Chihuahuan Desert grassland and shrubland plant communities. <i>Oecologia</i> , 2013, 172, 1117-1127.	0.9	115
297	Effects of experimental water addition depend on grassland community characteristics. <i>Plant Ecology</i> , 2013, 214, 777-786.	0.7	14
298	Formulation of Indices to Describe Intrinsic Nitrogen Transformation Rates for the Implementation of Best Management Practices in Agricultural Lands. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	17
299	Quantification of the aridity process in South-Western Romania. <i>Journal of Environmental Health Science & Engineering</i> , 2013, 11, 5.	1.4	24
300	The Mojave Vadose Zone: A Subsurface Biosphere Analogue for Mars. <i>Astrobiology</i> , 2013, 13, 637-646.	1.5	4
301	Altered precipitation regime affects the function and composition of soil microbial communities on multiple time scales. <i>Ecology</i> , 2013, 94, 2334-2345.	1.5	134
302	Decoupling of soil nutrient cycles as a function of aridity in global drylands. <i>Nature</i> , 2013, 502, 672-676.	13.7	733
303	Hot or not? Impact of seasonally variable soil carbonate formation on paleotemperature and O-isotope records from clumped isotope thermometry. <i>Earth and Planetary Science Letters</i> , 2013, 361, 208-218.	1.8	101
304	Soil type and moisture regime control microbial C and N mineralization in grassland soils more than atmospheric CO ₂ -induced changes in litter quality. <i>Soil Biology and Biochemistry</i> , 2013, 58, 172-180.	4.2	59
305	Effects of rainfall amount and frequency on vegetation growth in a Tibetan alpine meadow. <i>Climatic Change</i> , 2013, 118, 197-212.	1.7	44
306	Nitrogen deposition alters nitrogen cycling and reduces soil carbon content in low-productivity semiarid Mediterranean ecosystems. <i>Environmental Pollution</i> , 2013, 179, 185-193.	3.7	50
307	Wetting and drying events determine soil N pools in two Mediterranean ecosystems. <i>Applied Soil Ecology</i> , 2013, 72, 161-170.	2.1	27
308	Complex carbon cycle responses to multi-level warming and supplemental summer rain in the high Arctic. <i>Global Change Biology</i> , 2013, 19, 1780-1792.	4.2	57
309	Modeling the carbon dynamics of the dryland ecosystems in Xinjiang, China from 1981 to 2007: The spatiotemporal patterns and climate controls. <i>Ecological Modelling</i> , 2013, 267, 148-157.	1.2	33
310	Land cover controls on summer discharge and runoff solution chemistry of semi-arid urban catchments. <i>Journal of Hydrology</i> , 2013, 485, 37-53.	2.3	35
311	Chlordecone fate and mineralisation in a tropical soil (andosol) microcosm under aerobic conditions. <i>Science of the Total Environment</i> , 2013, 463-464, 395-403.	3.9	49

#	ARTICLE	IF	CITATIONS
312	Could abiotic environment shape fleshy fruit traits? A field study of the desert shrub <i>Ochradenus baccatus</i> . <i>Journal of Arid Environments</i> , 2013, 92, 34-41.	1.2	18
313	High N ₂ O emissions in dry ecosystems. <i>European Journal of Soil Biology</i> , 2013, 59, 1-7.	1.4	28
314	The CO ₂ -Vadose Project: Dynamics of the natural CO ₂ in a carbonate vadose zone. <i>International Journal of Greenhouse Gas Control</i> , 2013, 14, 97-112.	2.3	26
315	Soil chemistry and fertility alterations in response to N application in a semiarid Mediterranean shrubland. <i>Science of the Total Environment</i> , 2013, 452-453, 78-86.	3.9	24
316	Fungi mediate nitrous oxide production but not ammonia oxidation in aridland soils of the southwestern US. <i>Soil Biology and Biochemistry</i> , 2013, 63, 24-36.	4.2	66
317	Biological soil crusts promote N accumulation in response to dew events in dryland soils. <i>Soil Biology and Biochemistry</i> , 2013, 62, 22-27.	4.2	49
318	Genetic diversity of bacterial β -glucosidase-encoding genes as a function of soil management. <i>Biology and Fertility of Soils</i> , 2013, 49, 735-745.	2.3	16
319	High rates of denitrification and nitrous oxide emission in arid biological soil crusts from the Sultanate of Oman. <i>ISME Journal</i> , 2013, 7, 1862-1875.	4.4	76
320	Temporal dynamics of fine roots under long-term exposure to elevated CO ₂ in the Mojave Desert. <i>New Phytologist</i> , 2013, 198, 127-138.	3.5	10
321	Changes in rainfall seasonality in the tropics. <i>Nature Climate Change</i> , 2013, 3, 811-815.	8.1	464
322	Ecosystem-scale spatial heterogeneity of stable isotopes of soil nitrogen in African savannas. <i>Landscape Ecology</i> , 2013, 28, 685-698.	1.9	24
323	Realistic soil C sink estimate in dry forests of western Argentina based on humic substance content. <i>Journal of Arid Environments</i> , 2013, 91, 113-118.	1.2	20
324	N balance and cycling of Inner Mongolia typical steppe: a comprehensive case study of grazing effects. <i>Ecological Monographs</i> , 2013, 83, 195-219.	2.4	105
325	Does dissolved organic carbon regulate biological methane oxidation in semiarid soils?. <i>Global Change Biology</i> , 2013, 19, 2149-2157.	4.2	57
326	Recent research progress on soil microbial responses to drying–rewetting cycles. <i>Acta Ecologica Sinica</i> , 2013, 33, 1-6.	0.9	25
327	Legacies of Prehistoric Agricultural Practices Within Plant and Soil Properties Across an Arid Ecosystem. <i>Ecosystems</i> , 2013, 16, 1273-1293.	1.6	20
328	Carbon flux in deserts depends on soil cover type: A case study in the Gurbantunggute desert, North China. <i>Soil Biology and Biochemistry</i> , 2013, 58, 332-340.	4.2	65
329	Responses of soil heterotrophic respiration to moisture availability: An exploration of processes and models. <i>Soil Biology and Biochemistry</i> , 2013, 59, 72-85.	4.2	672

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330	Carbon and Nitrogen Decoupling Under an 11-Year Drought in the Shortgrass Steppe. <i>Ecosystems</i> , 2013, 16, 20-33.	1.6	96
331	Climate Change and North American Rangelands: Trends, Projections, and Implications. <i>Rangeland Ecology and Management</i> , 2013, 66, 493-511.	1.1	244
332	Decreased foliar nitrogen and crop yield in organic rainfed almond trees during transition from reduced tillage to no-tillage in a dryland farming system. <i>European Journal of Agronomy</i> , 2013, 49, 149-157.	1.9	38
333	Microbial community responses to 17 years of altered precipitation are seasonally dependent and coupled to co-varying effects of water content on vegetation and soil C. <i>Soil Biology and Biochemistry</i> , 2013, 64, 155-163.	4.2	74
334	Effect of Leaching on Loss of Soil Phosphorus in Different Types of Sand Dune in Horqin Sandy Land, China. <i>Advanced Materials Research</i> , 0, 726-731, 3818-3827.	0.3	1
335	Transcriptional Response of Nitrifying Communities to Wetting of Dry Soil. <i>Applied and Environmental Microbiology</i> , 2013, 79, 3294-3302.	1.4	110
336	Response of Soil CO ₂ Efflux to Simulated Precipitation Pulses in a Canary Island Pine Forest at Treeline. <i>Arid Land Research and Management</i> , 2013, 27, 178-187.	0.6	7
337	Do increased summer precipitation and N deposition alter fine root dynamics in a Mojave desert ecosystem?. <i>Global Change Biology</i> , 2013, 19, 948-956.	4.2	27
338	Predicting Policy Impact on Tropical Dry Forests. , 2013, , 429-446.		0
339	On the multiple ecological roles of water in river networks. <i>Ecosphere</i> , 2013, 4, 1-14.	1.0	45
340	Identifying sources and processes influencing nitrogen export to a small stream using dual isotopes of nitrate. <i>Water Resources Research</i> , 2013, 49, 5715-5731.	1.7	38
341	Extreme rainfall events can alter inter-annual biomass responses to water and N enrichment. <i>Biogeosciences</i> , 2013, 10, 8129-8138.	1.3	16
342	Aridity Modulates N Availability in Arid and Semiarid Mediterranean Grasslands. <i>PLoS ONE</i> , 2013, 8, e59807.	1.1	42
343	Responses of Ecosystem CO ₂ Fluxes to Short-Term Experimental Warming and Nitrogen Enrichment in an Alpine Meadow, Northern Tibet Plateau. <i>Scientific World Journal</i> , The, 2013, 2013, 1-11.	0.8	20
344	Climate-mediated spatiotemporal variability in terrestrial productivity across Europe. <i>Biogeosciences</i> , 2014, 11, 3057-3068.	1.3	10
345	Vegetation of the eastern communal conservancies in Namibia: II. Environmental drivers. <i>Koedoe</i> , 2014, 56, .	0.3	2
346	Interactions of local climatic, biotic and hydrogeochemical processes facilitate phosphorus dynamics along an Everglades forest-marsh gradient. <i>Biogeosciences</i> , 2014, 11, 899-914.	1.3	4
347	Effects of precipitation variability on carbon and water fluxes in the understory of a nitrogen-limited montado ecosystem. <i>Oecologia</i> , 2014, 176, 1199-1212.	0.9	4

#	ARTICLE	IF	CITATIONS
348	Root Inputs Influence Soil Water Holding Capacity and Differentially Influence the Growth of Native versus Exotic Annual Species in an Arid Ecosystem. <i>Restoration Ecology</i> , 2014, 22, 766-773.	1.4	9
349	Physiology-based prognostic modeling of the influence of changes in precipitation on a keystone dryland plant species. <i>Oecologia</i> , 2014, 176, 933-942.	0.9	12
350	Chihuahuan Desert Grassland Responds Similarly to Fall, Spring, and Summer Fires During Prolonged Drought. <i>Rangeland Ecology and Management</i> , 2014, 67, 621-628.	1.1	9
351	Anticipating changes in variability of grassland production due to increases in interannual precipitation variability. <i>Ecosphere</i> , 2014, 5, 1-15.	1.0	34
352	Soil microbial and nutrient responses to 7 years of seasonally altered precipitation in a Chihuahuan Desert grassland. <i>Global Change Biology</i> , 2014, 20, 1657-1673.	4.2	120
353	Assessment of Tannery Waste in Semi-arid Soils Under a Simulated Rainfall System. <i>Soil and Sediment Contamination</i> , 2014, 23, 954-964.	1.1	8
354	The Influence of Altered Rainfall Regimes on Early Season N Partitioning Among Early Phenology Annual Plants, a Late Phenology Shrub, and Microbes in a Semi-arid Ecosystem. <i>Ecosystems</i> , 2014, 17, 1354-1370.	1.6	13
355	Unifying soil respiration pulses, inhibition, and temperature hysteresis through dynamics of labile soil carbon and O_2 . <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 521-536.	1.3	63
356	Detecting changes in biomass productivity in a different land management regimes in drylands using satellite-derived vegetation index. <i>Soil Use and Management</i> , 2014, 30, 32-39.	2.6	38
357	A Multiscale, Hierarchical Model of Pulse Dynamics in Arid-Land Ecosystems. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2014, 45, 397-419.	3.8	153
358	Freshwater availability and coastal wetland foundation species: ecological transitions along a rainfall gradient. <i>Ecology</i> , 2014, 95, 2789-2802.	1.5	76
359	High Atmospheric Nitrate Inputs and Nitrogen Turnover in Semi-arid Urban Catchments. <i>Ecosystems</i> , 2014, 17, 1309-1325.	1.6	46
360	Biogeochemical Interactions Governing Terrestrial Net Primary Production. , 2014, , 189-216.		13
361	Vegetation response to hydrologic and geomorphic factors in an arid region of the Baja California Peninsula. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 1009-1021.	1.3	12
362	Soil microorganisms respond to five years of climate change manipulations and elevated atmospheric CO ₂ in a temperate heath ecosystem. <i>Plant and Soil</i> , 2014, 374, 211-222.	1.8	47
363	Implications of flow intermittency on sediment nitrogen availability and processing rates in a Mediterranean headwater stream. <i>Aquatic Sciences</i> , 2014, 76, 173-186.	0.6	30
364	Differential responses of short-term soil respiration dynamics to the experimental addition of nitrogen and water in the temperate semi-arid steppe of Inner Mongolia, China. <i>Journal of Environmental Sciences</i> , 2014, 26, 834-845.	3.2	22
365	Soil water dynamics, root systems, and plant responses in a semiarid grassland of Southern Patagonia. <i>Journal of Arid Environments</i> , 2014, 104, 52-58.	1.2	23

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366	Physical and biological controls on trace gas fluxes in semi-arid urban ephemeral waterways. <i>Biogeochemistry</i> , 2014, 121, 189-207.	1.7	58
367	Microbial biomass and respiration responses to nitrogen fertilization in a polar desert. <i>Polar Biology</i> , 2014, 37, 573-585.	0.5	25
368	Converting natural vegetation to farmland alters functional structure of ground-dwelling beetles and spiders in a desert oasis. <i>Journal of Insect Conservation</i> , 2014, 18, 57-67.	0.8	12
369	Predictive modeling of spatial patterns of soil nutrients related to fertility islands. <i>Landscape Ecology</i> , 2014, 29, 491-505.	1.9	26
370	Soil moisture increment as a controlling variable of the "Birch effect": Interactions with the pre-wetting soil moisture and litter addition. <i>Plant and Soil</i> , 2014, 379, 21-34.	1.8	65
371	Carbon allocation in <i>Larrea tridentata</i> plant-soil systems as affected by elevated soil moisture and N availability. <i>Plant and Soil</i> , 2014, 378, 227-238.	1.8	7
372	Cessation of Burning Dries Soils Long Term in a Tallgrass Prairie. <i>Ecosystems</i> , 2014, 17, 54-65.	1.6	13
373	The impact of precipitation change on nitrogen cycling in a semi-arid ecosystem. <i>Functional Ecology</i> , 2014, 28, 1534-1544.	1.7	84
374	Small scale stratification of microbial activity parameters in Mediterranean soils under freshwater and treated wastewater irrigation. <i>Soil Biology and Biochemistry</i> , 2014, 70, 193-204.	4.2	23
375	A theoretical analysis of microbial eco-physiological and diffusion limitations to carbon cycling in drying soils. <i>Soil Biology and Biochemistry</i> , 2014, 73, 69-83.	4.2	220
376	Root foraging capacity depends on root system architecture and ontogeny in seedlings of three Andean <i>Chenopodium</i> species. <i>Plant and Soil</i> , 2014, 380, 415-428.	1.8	38
377	Effects of simulated nitrogen deposition on soil respiration components and their temperature sensitivities in a semiarid grassland. <i>Soil Biology and Biochemistry</i> , 2014, 75, 113-123.	4.2	135
378	Vascular Plants and Biocrusts Modulate How Abiotic Factors Affect Wetting and Drying Events in Drylands. <i>Ecosystems</i> , 2014, 17, 1242-1256.	1.6	46
379	Forest structure, species traits and rain characteristics influences on horizontal and vertical rainfall partitioning in a semiarid pine-oak forest from Central Mexico. <i>Ecohydrology</i> , 2014, 7, 532-543.	1.1	31
380	Soil Resources Influence Vegetation and Response to Fire and Fire-Surrogate Treatments in Sagebrush-Steppe Ecosystems. <i>Rangeland Ecology and Management</i> , 2014, 67, 506-521.	1.1	32
381	Global synthesis of vegetation control on evapotranspiration partitioning. <i>Geophysical Research Letters</i> , 2014, 41, 6753-6757.	1.5	285
382	Biological soil crusts influence carbon release responses following rainfall in a temperate desert, northern China. <i>Ecological Research</i> , 2014, 29, 889-896.	0.7	30
383	Seasonality of precipitation interacts with exotic species to alter composition and phenology of a semi-arid grassland. <i>Journal of Ecology</i> , 2014, 102, 1549-1561.	1.9	104

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384	Direct and indirect impacts of climate change on microbial and biocrust communities alter the resistance of the N cycle in a semiarid grassland. <i>Journal of Ecology</i> , 2014, 102, 1592-1605.	1.9	71
385	Snow distribution, melt and surface water inputs to the soil in the mountain rain-snow transition zone. <i>Journal of Hydrology</i> , 2014, 519, 190-204.	2.3	61
386	Drought effect on plant nitrogen and phosphorus: a meta-analysis. <i>New Phytologist</i> , 2014, 204, 924-931.	3.5	456
387	Minor Changes in Soil Bacterial and Fungal Community Composition Occur in Response to Monsoon Precipitation in a Semiarid Grassland. <i>Microbial Ecology</i> , 2014, 68, 370-378.	1.4	37
388	A Synthesis of Climate and Vegetation Cover Effects on Biogeochemical Cycling in Shrub-Dominated Drylands. <i>Ecosystems</i> , 2014, 17, 931-945.	1.6	58
389	Climate and small scale factors determine functional diversity shifts of biological soil crusts in Iberian drylands. <i>Biodiversity and Conservation</i> , 2014, 23, 1757-1770.	1.2	51
390	Response of soil N ₂ O emissions to precipitation pulses under different nitrogen availabilities in a semiarid temperate steppe of Inner Mongolia, China. <i>Journal of Arid Land</i> , 2014, 6, 410-422.	0.9	22
391	Common and distinguishing features of the bacterial and fungal communities in biological soil crusts and shrub root zone soils. <i>Soil Biology and Biochemistry</i> , 2014, 69, 302-312.	4.2	110
392	Prescribed fire, soil inorganic nitrogen dynamics, and plant responses in a semiarid grassland. <i>Journal of Arid Environments</i> , 2014, 104, 59-66.	1.2	44
393	Effects of long-term grazing disturbance on the belowground storage of organic carbon in the Patagonian Monte, Argentina. <i>Journal of Environmental Management</i> , 2014, 134, 47-55.	3.8	18
394	Coupled effects of biogeochemical and hydrological processes on C, N, and P export during extreme rainfall events in a purple soil watershed in southwestern China. <i>Journal of Hydrology</i> , 2014, 511, 692-702.	2.3	55
395	Soil moisture and soil-litter mixing effects on surface litter decomposition: A controlled environment assessment. <i>Soil Biology and Biochemistry</i> , 2014, 72, 123-132.	4.2	99
396	Quantifying the influence of deep soil moisture on ecosystem albedo: The role of vegetation. <i>Water Resources Research</i> , 2014, 50, 4038-4053.	1.7	18
397	Is bacterial moisture niche a good predictor of shifts in community composition under long-term drought?. <i>Ecology</i> , 2014, 95, 110-122.	1.5	97
398	<i>Pinus ponderosa</i> alters nitrogen dynamics and diminishes the climate footprint in natural ecosystems of Patagonia. <i>Journal of Ecology</i> , 2014, 102, 610-621.	1.9	23
399	Tallgrass prairie soil fungal communities are resilient to climate change. <i>Fungal Ecology</i> , 2014, 10, 44-57.	0.7	41
400	Observations of a two-layer soil moisture influence on surface energy dynamics and planetary boundary layer characteristics in a semiarid shrubland. <i>Water Resources Research</i> , 2014, 50, 306-317.	1.7	30
401	Toward a better integration of biological data from precipitation manipulation experiments into Earth system models. <i>Reviews of Geophysics</i> , 2014, 52, 412-434.	9.0	39

#	ARTICLE	IF	CITATIONS
402	Gully erosion reduces carbon and nitrogen storage and mineralization fluxes in a headwater catchment of south-eastern Queensland, Australia. <i>Hydrological Processes</i> , 2014, 28, 4669-4681.	1.1	11
403	Groundwater availability mediates the ecosystem effects of an invasion of <i>Prosopis pallida</i> . <i>Ecological Applications</i> , 2014, 24, 1954-1971.	1.8	28
404	The Role of Carrion in Ecosystems. , 2015, , 288-307.		8
405	Nutrient levels within leaves, stems, and roots of the xeric species <i>Reaumuria soongorica</i> in relation to geographical, climatic, and soil conditions. <i>Ecology and Evolution</i> , 2015, 5, 1494-1503.	0.8	67
406	Variations of net ecosystem production due to seasonal precipitation differences in a tropical dry forest of northwest Mexico. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 2081-2094.	1.3	48
407	Soil respiration sensitivities to water and temperature in a revegetated desert. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 773-787.	1.3	42
408	Water from air: an overlooked source of moisture in arid and semiarid regions. <i>Scientific Reports</i> , 2015, 5, 13767.	1.6	81
409	Contrasting diel hysteresis between soil autotrophic and heterotrophic respiration in a desert ecosystem under different rainfall scenarios. <i>Scientific Reports</i> , 2015, 5, 16779.	1.6	19
410	Soil N retention and nitrate leaching in three types of dunes in the Mu Us desert of China. <i>Scientific Reports</i> , 2015, 5, 14222.	1.6	48
411	Dynamic interactions of ecohydrological and biogeochemical processes in water-limited systems. <i>Ecosphere</i> , 2015, 6, 1-27.	1.0	58
412	The ecological role of small rainfall events in a desert grassland. <i>Ecohydrology</i> , 2015, 8, 1614-1622.	1.1	34
413	Plant nutrients do not covary with soil nutrients under changing climatic conditions. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1298-1308.	1.9	62
414	Beyond annual and seasonal averages: using temporal patterns of precipitation to predict butterfly richness across an elevational gradient. <i>Ecological Entomology</i> , 2015, 40, 585-595.	1.1	10
415	Controls on carbon and nitrogen export in an eroding catchment of south-eastern Queensland, Australia. <i>Hydrological Processes</i> , 2015, 29, 739-751.	1.1	13
416	Flushing sediment from reservoirs triggers forestation in the downstream reaches. <i>Ecohydrology</i> , 2015, 8, 426-437.	1.1	19
417	Fire Effects on Soil Biogeochemistry in Florida Scrubby Flatwoods. <i>American Midland Naturalist</i> , 2015, 174, 49-64.	0.2	16
418	Historical Water Pulses in the Central Desert Region: Following the Paths of the Missionaries'™ First Explorations of Northern Baja California. <i>Journal of the Southwest</i> , 2015, 57, 145-162.	0.1	1
419	Responses of vertical soil moisture to rainfall pulses and land uses in a typical loess hilly area, China. <i>Solid Earth</i> , 2015, 6, 595-608.	1.2	64

#	ARTICLE	IF	CITATIONS
420	Namib Desert dune/interdune transects exhibit habitat-specific edaphic bacterial communities. <i>Frontiers in Microbiology</i> , 2015, 6, 845.	1.5	46
421	The influence of warm-season precipitation on the diel cycle of the surface energy balance and carbon dioxide at a Colorado subalpine forest site. <i>Biogeosciences</i> , 2015, 12, 7349-7377.	1.3	39
422	Physiological and Proteomic Adaptation of the Alpine Grass <i>Stipa purpurea</i> to a Drought Gradient. <i>PLoS ONE</i> , 2015, 10, e0117475.	1.1	17
423	Benefactor and allelopathic shrub species have different effects on the soil microbial community along an environmental severity gradient. <i>Soil Biology and Biochemistry</i> , 2015, 88, 48-57.	4.2	44
424	Species-specific adaptations explain resilience of herbaceous understorey to increased precipitation variability in a Mediterranean oak woodland. <i>Ecology and Evolution</i> , 2015, 5, 4246-4262.	0.8	11
425	Temporal variability and cooperative breeding: testing the bet-hedging hypothesis in the acorn woodpecker. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20151742.	1.2	31
426	A novel method to continuously monitor litter moisture – A microcosm-based experiment. <i>Journal of Arid Environments</i> , 2015, 115, 10-13.	1.2	14
427	Leaf and Ecosystem Gas Exchange Responses of Buffel Grass-Dominated Grassland to Summer Precipitation. <i>Pedosphere</i> , 2015, 25, 112-123.	2.1	8
428	Top-down vs. bottom-up regulation of herbaceous primary production and composition in an arid, urbanizing ecosystem. <i>Journal of Arid Environments</i> , 2015, 116, 103-114.	1.2	11
429	Functional diversity enhances the resistance of ecosystem multifunctionality to aridity in Mediterranean drylands. <i>New Phytologist</i> , 2015, 206, 660-671.	3.5	167
430	Ammonia-oxidizing archaea respond positively to inorganic nitrogen addition in desert soils. <i>FEMS Microbiology Ecology</i> , 2015, 91, 1-11.	1.3	17
431	Differences in thallus chemistry are related to species-specific effects of biocrust-forming lichens on soil nutrients and microbial communities. <i>Functional Ecology</i> , 2015, 29, 1087-1098.	1.7	76
432	Effects of nitrogen addition on soil microbes and their implications for soil C emission in the Gurbantunggut Desert, center of the Eurasian Continent. <i>Science of the Total Environment</i> , 2015, 515-516, 215-224.	3.9	24
433	Effects of activated charcoal and quebracho tannin amendments on soil properties in irrigated organic vegetable production under arid subtropical conditions. <i>Biology and Fertility of Soils</i> , 2015, 51, 367-377.	2.3	8
434	Short-term drought response of N ₂ O and CO ₂ emissions from mesic agricultural soils in the US Midwest. <i>Agriculture, Ecosystems and Environment</i> , 2015, 212, 127-133.	2.5	35
435	Root exudate carbon mitigates nitrogen loss in a semi-arid soil. <i>Soil Biology and Biochemistry</i> , 2015, 88, 380-389.	4.2	63
436	Water regime history drives responses of soil Namib Desert microbial communities to wetting events. <i>Scientific Reports</i> , 2015, 5, 12263.	1.6	52
437	Precipitation modifies the effects of warming and nitrogen addition on soil microbial communities in northern Chinese grasslands. <i>Soil Biology and Biochemistry</i> , 2015, 89, 12-23.	4.2	95

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438	Leaf nitrogen is closely coupled to phenophases in a desert shrub ecosystem in China. <i>Journal of Arid Environments</i> , 2015, 122, 124-131.	1.2	11
439	Decomposition of 51 semidesert species from wide-ranging phylogeny is faster in standing and sand-buried than in surface leaf litters: implications for carbon and nutrient dynamics. <i>Plant and Soil</i> , 2015, 396, 175-187.	1.8	27
440	Nitrapyrin decreased nitrification of nitrogen released from soil organic matter but not amoA gene abundance at high soil temperature. <i>Soil Biology and Biochemistry</i> , 2015, 88, 214-223.	4.2	59
441	<i>In situ</i> short-term dynamics of CO ₂ flux and microbial biomass after simulated rainfall in dry croplands in four tropical and continental ecosystems. <i>Soil Science and Plant Nutrition</i> , 2015, 61, 392-403.	0.8	3
442	Soil moisture dynamics of typical ecosystems in response to precipitation: A monitoring-based analysis of hydrological service in the Qilian Mountains. <i>Catena</i> , 2015, 129, 63-75.	2.2	51
443	Response of N ₂ O emission to water and nitrogen addition in temperate typical steppe soil in Inner Mongolia, China. <i>Soil and Tillage Research</i> , 2015, 151, 9-17.	2.6	27
444	Role of Cyanobacterial Exopolysaccharides in Phototrophic Biofilms and in Complex Microbial Mats. <i>Life</i> , 2015, 5, 1218-1238.	1.1	291
445	Natural abundance ($\delta^{15}N$) indicates shifts in nitrogen relations of woody taxa along a savanna-woodland continental rainfall gradient. <i>Oecologia</i> , 2015, 178, 297-308.	0.9	21
446	Climatic and landscape influences on soil moisture are primary determinants of soil carbon fluxes in seasonally snow-covered forest ecosystems. <i>Biogeochemistry</i> , 2015, 123, 447-465.	1.7	50
447	Predicting nitrogen leaching with the modified LEACHM model: validation in soils receiving long-term application of animal manure composts. <i>Nutrient Cycling in Agroecosystems</i> , 2015, 102, 209-225.	1.1	5
448	Application of modified export coefficient method on the load estimation of non-point source nitrogen and phosphorus pollution of soil and water loss in semiarid regions. <i>Environmental Science and Pollution Research</i> , 2015, 22, 10647-10660.	2.7	63
449	Consequences of Changing Precipitation Patterns for Ecosystem Functioning in Grasslands: A Review. <i>Progress in Botany Fortschritte Der Botanik</i> , 2015, , 347-393.	0.1	25
450	Soil enzyme responses to varying rainfall regimes in Chihuahuan Desert soils. <i>Ecosphere</i> , 2015, 6, 1-10.	1.0	45
451	Water availability and abundance of microbial groups are key determinants of greenhouse gas fluxes in a dryland forest ecosystem. <i>Soil Biology and Biochemistry</i> , 2015, 86, 5-16.	4.2	61
452	Effects of Cultivation and Alternative Vineyard Management Practices on Soil Carbon Storage in Diverse Mediterranean Landscapes: A Review of the Literature. <i>Agroecology and Sustainable Food Systems</i> , 2015, 39, 516-550.	1.0	17
453	Divergent responses of soil microbial communities to water and nitrogen addition in a temperate desert. <i>Geoderma</i> , 2015, 251-252, 55-64.	2.3	36
454	Impacts of altered precipitation regimes on soil communities and biogeochemistry in arid and semi-arid ecosystems. <i>Global Change Biology</i> , 2015, 21, 1407-1421.	4.2	381
455	Effects of experimental warming and nitrogen addition on soil respiration and CH ₄ fluxes from crop rotations of winter wheat-soybean/fallow. <i>Agricultural and Forest Meteorology</i> , 2015, 207, 38-47.	1.9	58

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456	Effects of maize cultivation on nitrogen and phosphorus loadings to drainage channels in Central Chile. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 697.	1.3	15
457	Quantifying characteristic growth dynamics in a semi-arid grassland ecosystem by predicting short-term NDVI phenology from daily rainfall: a simple four parameter coupled-reservoir model. <i>International Journal of Remote Sensing</i> , 2015, 36, 5637-5663.	1.3	38
458	Plant nitrogen uptake drives responses of productivity to nitrogen and water addition in a grassland. <i>Scientific Reports</i> , 2014, 4, 4817.	1.6	71
459	Ecohydrological modeling in agroecosystems: Examples and challenges. <i>Water Resources Research</i> , 2015, 51, 5081-5099.	1.7	41
460	Proximate controls on semiarid soil greenhouse gas fluxes across 3Âmillion years of soil development. <i>Biogeochemistry</i> , 2015, 125, 375-391.	1.7	2
461	Combined Flux Chamber and Genomics Approach Links Nitrous Acid Emissions to Ammonia Oxidizing Bacteria and Archaea in Urban and Agricultural Soil. <i>Environmental Science & Technology</i> , 2015, 49, 13825-13834.	4.6	56
462	Climate change and physical disturbance cause similar community shifts in biological soil crusts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12116-12121.	3.3	225
463	Grass-legume mixtures impact soil N, species recruitment, and productivity in temperate steppe grassland. <i>Plant and Soil</i> , 2015, 394, 271-285.	1.8	46
464	Variation in soil organic matter accumulation and metabolic activity along an elevation gradient in the Santa Rosa Mountains of Southern California, USA. <i>Journal of Arid Land</i> , 2015, 7, 814-819.	0.9	7
465	Soil characteristics determine soil carbon and nitrogen availability during leaf litter decomposition regardless of litter quality. <i>Soil Biology and Biochemistry</i> , 2015, 81, 134-142.	4.2	83
466	Stormwater Infrastructure Controls Runoff and Dissolved Material Export from Arid Urban Watersheds. <i>Ecosystems</i> , 2015, 18, 62-75.	1.6	70
467	Evaluation of the Effect of a Rain Pulse on the Initial Growth ofProsopisSeedlings. <i>Arid Land Research and Management</i> , 2015, 29, 210-221.	0.6	6
468	Dry-rewetting cycles regulate wheat carbon rhizodeposition, stabilization and nitrogen cycling. <i>Soil Biology and Biochemistry</i> , 2015, 81, 195-203.	4.2	83
469	Vegetation-soil system controls soil mechanisms for nitrogen transformations in an oligotrophic Mexican desert. <i>Journal of Arid Environments</i> , 2015, 114, 62-69.	1.2	22
470	Ephemeral plants mediate responses of ecosystem carbon exchange to increased precipitation in a temperate desert. <i>Agricultural and Forest Meteorology</i> , 2015, 201, 141-152.	1.9	40
471	Water addition regulates the metabolic activity of ammonia oxidizers responding to environmental perturbations in dry subhumid ecosystems. <i>Environmental Microbiology</i> , 2015, 17, 444-461.	1.8	111
472	Effects of shrub presence and shrub species on ground beetle assemblages (Carabidae, Curculionidae) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.9	10
473	Modeled ecosystem responses to intra-annual redistribution and levels of precipitation in a prairie grassland. <i>Ecological Modelling</i> , 2015, 297, 33-41.	1.2	6

#	ARTICLE	IF	CITATIONS
474	Quantifying crop responses to nitrogen and avenues to improve nitrogen-use efficiency. , 2015, , 161-206.		49
475	Seasonal and annual variation in transpiration of a dominant desert species, <i>Haloxylon ammodendron</i> , in Central Asia up-scaled from sap flow measurement. <i>Ecohydrology</i> , 2015, 8, 948-960.	1.1	26
476	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
477	Effects of cultivation on chemical and biochemical properties of dryland soils from southern Tunisia. <i>Agriculture, Ecosystems and Environment</i> , 2015, 199, 249-260.	2.5	30
478	Effectiveness of afforested shrub plantation on ground-active arthropod communities and trophic structure in desertified regions. <i>Catena</i> , 2015, 125, 1-9.	2.2	23
479	Progress in Botany. <i>Progress in Botany Fortschritte Der Botanik</i> , 2015, , .	0.1	7
480	Soil Aggregate Dynamics and Plant Community Response after Biosolids Application in a Semiarid Grassland. <i>Journal of Environmental Quality</i> , 2016, 45, 1663-1671.	1.0	12
481	Application of a modified distributed-dynamic erosion and sediment yield model in a typical watershed of a hilly and gully region, Chinese Loess Plateau. <i>Solid Earth</i> , 2016, 7, 1577-1590.	1.2	22
483	Microsite Differentiation Drives the Abundance of Soil Ammonia Oxidizing Bacteria along Aridity Gradients. <i>Frontiers in Microbiology</i> , 2016, 7, 505.	1.5	24
484	The Effect of Nitrogen Deposition on Plant Performance and Community Structure: Is It Life Stage Specific?. <i>PLoS ONE</i> , 2016, 11, e0156685.	1.1	16
485	Elevated soil nitrogen pools after conversion of turfgrass to water-efficient residential landscapes. <i>Environmental Research Letters</i> , 2016, 11, 084007.	2.2	2
486	Historical precipitation predictably alters the shape and magnitude of microbial functional response to soil moisture. <i>Global Change Biology</i> , 2016, 22, 1957-1964.	4.2	79
487	Effects of wetting frequency and afforestation on carbon, nitrogen and the microbial community in soil. <i>Agriculture, Ecosystems and Environment</i> , 2016, 231, 34-43.	2.5	9
488	Differential response of ammonia-oxidizing archaea and bacteria to the wetting of salty arid soil. <i>Journal of Basic Microbiology</i> , 2016, 56, 900-906.	1.8	4
489	Short-term manipulation of precipitation in Mongolian steppe shows vegetation influenced more by timing than amount of rainfall. <i>Journal of Vegetation Science</i> , 2016, 27, 249-258.	1.1	19
490	The influence of storm characteristics on hydrological connectivity in intermittent channel networks: implications for nitrogen transport and denitrification. <i>Freshwater Biology</i> , 2016, 61, 1214-1227.	1.2	11
491	Landscape position influences soil respiration variability and sensitivity to physiological drivers in mixed-use lands of Southern California, USA. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2530-2543.	1.3	11
492	Soil respiration simulation based on soil temperature and water content in artificial smooth brome grassland. <i>Rangeland Journal</i> , 2016, 38, 579.	0.4	2

#	ARTICLE	IF	CITATIONS
493	Patterns of Leaf N:P Stoichiometry along Climatic Gradients in Sandy Region, North of China. <i>Journal of Plant Ecology</i> , 2016, , rtw134.	1.2	5
494	Alkaline Proteases from Patagonian Bacteria. , 2016, , 169-184.		0
495	The State and Origin of River Water Composition in Greece. <i>Handbook of Environmental Chemistry</i> , 2016, , 97-127.	0.2	7
496	Biogeochemical Change During Climate-Driven Afforestation: A Paleocological Perspective from the Rocky Mountains. <i>Ecosystems</i> , 2016, 19, 615-624.	1.6	4
497	Exogenous N addition enhances the responses of gross primary productivity to individual precipitation events in a temperate grassland. <i>Scientific Reports</i> , 2016, 6, 26901.	1.6	11
498	No synergistic effects of water and nitrogen addition on soil microbial communities and soil respiration in a temperate desert. <i>Catena</i> , 2016, 142, 126-133.	2.2	33
499	Water, nitrogen and phosphorus use efficiencies of four tree species in response to variable water and nutrient supply. <i>Plant and Soil</i> , 2016, 406, 187-199.	1.8	43
500	Biological Soil Crusts: An Organizing Principle in Drylands. <i>Ecological Studies</i> , 2016, , .	0.4	183
501	Biological Soil Crusts as an Organizing Principle in Drylands. <i>Ecological Studies</i> , 2016, , 3-13.	0.4	191
502	Evapotranspiration partitioning, stomatal conductance, and components of the water balance: A special case of a desert ecosystem in China. <i>Journal of Hydrology</i> , 2016, 538, 374-386.	2.3	49
503	Grazing effects on herbage nutritive values depend on precipitation and growing season in Inner Mongolian grassland. <i>Journal of Plant Ecology</i> , 2016, 9, 712-723.	1.2	19
504	Disentangling the effect of farming practice from aridity on crop stable isotope values: A present-day model from Morocco and its application to early farming sites in the eastern Mediterranean. <i>Infrastructure Asset Management</i> , 2016, 3, 2-22.	1.2	82
505	Biocrusts, inside and outside resource islands of <i>Mimosa luisana</i> (Leguminosae), improve soil carbon and nitrogen dynamics in a tropical semiarid ecosystem. <i>European Journal of Soil Biology</i> , 2016, 74, 93-103.	1.4	16
506	Spatio-temporal variation of erosion-type non-point source pollution in a small watershed of hilly and gully region, Chinese Loess Plateau. <i>Environmental Science and Pollution Research</i> , 2016, 23, 10957-10967.	2.7	35
507	Patterns of herbaceous species richness and productivity along gradients of soil moisture and nutrients in the Indian Thar Desert. <i>Journal of Arid Environments</i> , 2016, 125, 80-87.	1.2	17
508	Denitrification in a subtropical, semi-arid North American savanna: field measurements and intact soil core incubations. <i>Biogeochemistry</i> , 2016, 128, 257-266.	1.7	9
509	Response of soil CO ₂ efflux to precipitation manipulation in a semiarid grassland. <i>Journal of Environmental Sciences</i> , 2016, 45, 207-214.	3.2	15
510	A threshold reveals decoupled relationship of sulfur with carbon and nitrogen in soils across arid and semi-arid grasslands in northern China. <i>Biogeochemistry</i> , 2016, 127, 141-153.	1.7	29

#	ARTICLE	IF	CITATIONS
511	Low soil moisture during hot periods drives apparent negative temperature sensitivity of soil respiration in a dryland ecosystem: a multi-model comparison. <i>Biogeochemistry</i> , 2016, 128, 155-169.	1.7	30
512	Combined effects of litter features, UV radiation, and soil water on litter decomposition in denuded areas of the arid Patagonian Monte. <i>Plant and Soil</i> , 2016, 406, 71-82.	1.8	25
513	Evolution of soil respiration depends on biological soil crusts across a 50-year chronosequence of desert revegetation. <i>Soil Science and Plant Nutrition</i> , 2016, 62, 140-149.	0.8	6
514	Burrowing herbivores alter soil carbon and nitrogen dynamics in a semi-arid ecosystem, Argentina. <i>Soil Biology and Biochemistry</i> , 2016, 103, 253-261.	4.2	25
515	A wildfire event influences ecosystem carbon fluxes but not soil respiration in a semi-arid woodland. <i>Agricultural and Forest Meteorology</i> , 2016, 226-227, 57-66.	1.9	14
516	Impacts of nitrogen-fixing and non-fixing tree species on soil respiration and microbial community composition during forest management in subtropical China. <i>Ecological Research</i> , 2016, 31, 683-693.	0.7	12
517	Structure and Functioning of Dryland Ecosystems in a Changing World. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2016, 47, 215-237.	3.8	330
518	Nitrogen trace gas fluxes from a semiarid subtropical savanna under woody legume encroachment. <i>Global Biogeochemical Cycles</i> , 2016, 30, 614-628.	1.9	22
519	Negative legacy effects of rainfall and nitrogen amendment on leaf lifespan of steppe species. <i>Journal of Plant Ecology</i> , 2016, , rtw090.	1.2	1
520	Winter wheat grain yield and summer nitrate leaching: Long-term effects of nitrogen and phosphorus rates on the Loess Plateau of China. <i>Field Crops Research</i> , 2016, 196, 180-190.	2.3	85
521	Alterations to biological soil crusts with alpine meadow retrogressive succession affect seeds germination of three plant species. <i>Journal of Mountain Science</i> , 2016, 13, 1995-2005.	0.8	4
522	Plant Biotic Interactions in the Sonoran Desert: Current Knowledge and Future Research Perspectives. <i>International Journal of Plant Sciences</i> , 2016, 177, 217-234.	0.6	21
523	Microbial recycling of dissolved organic matter confines plant nitrogen uptake to inorganic forms in a semi-arid ecosystem. <i>Soil Biology and Biochemistry</i> , 2016, 101, 142-151.	4.2	23
524	Soil compartment is a major determinant of the impact of simulated rainfall on desert microbiota. <i>Environmental Microbiology</i> , 2016, 18, 5048-5062.	1.8	27
525	Interpreting vegetation change in tropical arid ecosystems from sediment molecular fossils and their stable isotope compositions: A baseline study from the Pilbara region of northwest Australia. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 459, 495-507.	1.0	10
526	Plant $\delta^{15}N$ reflects the high landscape-scale heterogeneity of soil fertility and vegetation productivity in a Mediterranean semiarid ecosystem. <i>New Phytologist</i> , 2016, 212, 1030-1043.	3.5	33
527	The sensitivity of carbon exchanges in Great Plains grasslands to precipitation variability. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 280-294.	1.3	33
528	Spatial distribution of the herbaceous layer and its relationship to soil physical-chemical properties in the southern margin of the Gurbantonggut Desert, northwestern China. <i>Acta Ecologica Sinica</i> , 2016, 36, 327-332.	0.9	6

#	ARTICLE	IF	CITATIONS
529	Gross Nitrogen Turnover of Natural and Managed Tropical Ecosystems at Mt. Kilimanjaro, Tanzania. <i>Ecosystems</i> , 2016, 19, 1271-1288.	1.6	16
530	Contrasting precipitation seasonality influences evapotranspiration dynamics in water-limited shrublands. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 494-508.	1.3	34
531	Shift from ecosystem P to N limitation at precipitation gradient in tropical dry forests at Yucatan, Mexico. <i>Environmental Research Letters</i> , 2016, 11, 095006.	2.2	26
532	Evapotranspiration dynamics and effects on groundwater recharge and discharge at an arid waste disposal site. <i>Journal of Arid Environments</i> , 2016, 133, 1-9.	1.2	11
533	Vegetation composition and structure changes following roller-chopping deforestation in central Argentina woodlands. <i>Journal of Arid Environments</i> , 2016, 133, 19-24.	1.2	33
534	Patterns and Controls on Nitrogen Cycling of Biological Soil Crusts. <i>Ecological Studies</i> , 2016, , 257-285.	0.4	113
535	Responses of soil nematodes to water and nitrogen additions in an old-field grassland. <i>Applied Soil Ecology</i> , 2016, 102, 53-60.	2.1	98
536	Controls on ecohydrologic properties in desert ecosystems: Differences in soil age and volcanic morphology. <i>Geoderma</i> , 2016, 271, 32-41.	2.3	5
537	Surface Soil Properties Influence Carbon Oxide Pulses After Precipitation Events in a Semiarid Vineyard Under Conventional Tillage and Cover Crops. <i>Pedosphere</i> , 2016, 26, 499-509.	2.1	20
538	Seasonal patterns of nitrogen cycling in subtropical short-hydroperiod wetlands: Effects of precipitation and restoration. <i>Science of the Total Environment</i> , 2016, 556, 136-145.	3.9	24
539	The role of spring ephemerals and soil microbes in soil nutrient retention in a temperate desert. <i>Plant and Soil</i> , 2016, 406, 43-54.	1.8	26
540	Effects of water and nitrogen addition on vegetation carbon pools in a semi-arid temperate steppe. <i>Journal of Forestry Research</i> , 2016, 27, 621-629.	1.7	8
541	Multivariate regulation of soil CO ₂ and N ₂ O pulse emissions from agricultural soils. <i>Global Change Biology</i> , 2016, 22, 1286-1298.	4.2	57
542	Rainfall, microhabitat, and small mammals influence the abundance and distribution of soil microorganisms in a Chilean semi-arid shrubland. <i>Journal of Arid Environments</i> , 2016, 126, 37-46.	1.2	28
543	Soil moisture legacy effects: Impacts on soil nutrients, plants and mycorrhizal responsiveness. <i>Soil Biology and Biochemistry</i> , 2016, 95, 173-179.	4.2	85
544	Hydrological services by mountain ecosystems in Qilian Mountain of China: A review. <i>Chinese Geographical Science</i> , 2016, 26, 174-187.	1.2	32
545	Microbial diversity drives multifunctionality in terrestrial ecosystems. <i>Nature Communications</i> , 2016, 7, 10541.	5.8	1,365
546	Response of evapotranspiration and CO ₂ fluxes to discrete precipitation pulses over degraded grassland and cultivated corn surfaces in a semiarid area of Northeastern China. <i>Journal of Arid Environments</i> , 2016, 127, 137-147.	1.2	7

#	ARTICLE	IF	CITATIONS
547	Precipitation Pattern Determines the Inter-annual Variation of Herbaceous Layer and Carbon Fluxes in a Phreatophyte-Dominated Desert Ecosystem. <i>Ecosystems</i> , 2016, 19, 601-614.	1.6	45
548	Responses of Soil Bacterial Communities to Nitrogen Deposition and Precipitation Increment Are Closely Linked with Aboveground Community Variation. <i>Microbial Ecology</i> , 2016, 71, 974-989.	1.4	86
549	When Water Vanishes: Magnitude and Regulation of Carbon Dioxide Emissions from Dry Temporary Streams. <i>Ecosystems</i> , 2016, 19, 710-723.	1.6	70
550	Evolutionary divergences in root system morphology, allocation, and nitrogen uptake in species from high- versus low-fertility soils. <i>Functional Plant Biology</i> , 2016, 43, 129.	1.1	17
551	Modelling N mineralisation from sludge-amended soils across agro-ecological zones: A case study from South Africa. <i>Ecological Modelling</i> , 2016, 322, 19-30.	1.2	8
552	Diversity and Ecology of Viruses in Hyperarid Desert Soils. <i>Applied and Environmental Microbiology</i> , 2016, 82, 770-777.	1.4	89
553	Synergistic effects of diffusion and microbial physiology reproduce the Birch effect in a micro-scale model. <i>Soil Biology and Biochemistry</i> , 2016, 93, 28-37.	4.2	55
554	Seasonal microbial and nutrient responses during a 5-year reduction in the daily temperature range of soil in a Chihuahuan Desert ecosystem. <i>Oecologia</i> , 2016, 180, 265-277.	0.9	13
555	Responses of gross primary productivity to different sizes of precipitation events in a temperate grassland ecosystem in Inner Mongolia, China. <i>Journal of Arid Land</i> , 2016, 8, 36-46.	0.9	32
556	Increased rainfall variability and N addition accelerate litter decomposition in a restored prairie. <i>Oecologia</i> , 2016, 180, 645-655.	0.9	28
557	Soil Microbial Biomass Nitrogen, In Situ Respiration and Crop Yield Influenced by Deep Tillage, Moisture Regimes and N Nutrition in Sugarcane-Based System in Subtropical India. <i>Sugar Tech</i> , 2017, 19, 125-135.	0.9	16
558	Controls of nitrogen cycling evaluated along a well-characterized climate gradient. <i>Ecology</i> , 2017, 98, 1117-1129.	1.5	24
559	Soil carbon dioxide emissions from the Mojave desert: Isotopic evidence for a carbonate source. <i>Geophysical Research Letters</i> , 2017, 44, 245-251.	1.5	23
560	Cross-biome assessment of gross soil nitrogen cycling in California ecosystems. <i>Soil Biology and Biochemistry</i> , 2017, 107, 144-155.	4.2	56
561	Will seasonally dry tropical forests be sensitive or resistant to future changes in rainfall regimes?. <i>Environmental Research Letters</i> , 2017, 12, 023001.	2.2	210
562	Soil and vegetation-atmosphere exchange of NO, NH ₃ , and N ₂ O from field measurements in a semi arid grazed ecosystem in Senegal. <i>Atmospheric Environment</i> , 2017, 156, 36-51.	1.9	17
563	Applications of fipronil (Adonis 3UL) and <i>Metarhizium acridum</i> for use against locusts have minimal effect on litter decomposition and microbial functional diversity in Australian arid grassland. <i>Soil Research</i> , 2017, 55, 172.	0.6	4
564	Dynamics of soil labile carbon and nitrogen pools in riparian zone of Wyaralong Dam in Southeast Queensland, Australia. <i>Journal of Soils and Sediments</i> , 2017, 17, 1030-1044.	1.5	7

#	ARTICLE	IF	CITATIONS
565	Physiological homeostasis and morphological plasticity of two tree species subjected to precipitation seasonal distribution changes. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2017, 25, 1-19.	1.1	19
566	The experimental flow to the Colorado River delta: Effects on carbon mobilization in a dry watercourse. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 607-627.	1.3	9
567	Rice rhizodeposition and carbon stabilisation in paddy soil are regulated via drying-rewetting cycles and nitrogen fertilisation. <i>Biology and Fertility of Soils</i> , 2017, 53, 407-417.	2.3	49
568	Climate legacies drive global soil carbon stocks in terrestrial ecosystems. <i>Science Advances</i> , 2017, 3, e1602008.	4.7	91
569	Post-fire interactions between soil water repellency, soil fertility and plant growth in soil collected from a burned piñon-juniper woodland. <i>Journal of Arid Environments</i> , 2017, 144, 98-109.	1.2	17
570	Variation in species-level plant functional traits over wetland indicator status categories. <i>Ecology and Evolution</i> , 2017, 7, 3732-3744.	0.8	22
571	Removal of an apex predator initiates a trophic cascade that extends from herbivores to vegetation and the soil nutrient pool. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170111.	1.2	53
572	Microbial nitrous oxide emissions in dryland ecosystems: mechanisms, microbiome and mitigation. <i>Environmental Microbiology</i> , 2017, 19, 4808-4828.	1.8	40
573	Rhizosphere engineering: Innovative improvement of root environment. <i>Rhizosphere</i> , 2017, 3, 176-184.	1.4	23
574	Seasonal and soil-type dependent emissions of nitrous oxide from irrigated desert soils amended with digested poultry manures. <i>Science of the Total Environment</i> , 2017, 593-594, 91-98.	3.9	13
575	Microbial community response to changes in substrate availability and habitat conditions in a reciprocal subsoil transfer experiment. <i>Soil Biology and Biochemistry</i> , 2017, 105, 138-152.	4.2	39
576	Symbiotic soil fungi enhance ecosystem resilience to climate change. <i>Global Change Biology</i> , 2017, 23, 5228-5236.	4.2	63
577	Extreme effects of drought on composition of the soil bacterial community and decomposition of plant tissue. <i>European Journal of Soil Science</i> , 2017, 68, 504-513.	1.8	44
578	Why non-native grasses pose a critical emerging threat to biodiversity conservation, habitat connectivity and agricultural production in multifunctional rural landscapes. <i>Landscape Ecology</i> , 2017, 32, 1219.	1.9	27
579	Impacts of water and nitrogen addition on nitrogen recovery in <i>Haloxylon ammodendron</i> dominated desert ecosystems. <i>Science of the Total Environment</i> , 2017, 601-602, 1280-1288.	3.9	28
580	Prediction of topsoil texture for Region Centre (France) applying model ensemble methods. <i>Geoderma</i> , 2017, 298, 67-77.	2.3	38
581	Enhanced precipitation promotes decomposition and soil C stabilization in semiarid ecosystems, but seasonal timing of wetting matters. <i>Plant and Soil</i> , 2017, 416, 427-436.	1.8	21
582	Microbial community response to hydration-desiccation cycles in desert soil. <i>Scientific Reports</i> , 2017, 7, 45735.	1.6	80

#	ARTICLE	IF	CITATIONS
583	Exacerbated nitrogen limitation ends transient stimulation of grassland productivity by increased precipitation. <i>Ecological Monographs</i> , 2017, 87, 457-469.	2.4	87
584	Responses of different Collembola and mite taxa to experimental rain pulses in an arid ecosystem. <i>Catena</i> , 2017, 155, 53-61.	2.2	14
585	Rainfall pulses modify soil carbon emission in a semiarid desert. <i>Catena</i> , 2017, 155, 147-155.	2.2	24
586	Mycorrhizal Networks and Forest Resilience to Drought. , 2017, , 319-339.		18
587	Do species' strategies and type of stress predict net positive effects in an arid ecosystem?. <i>Ecology</i> , 2017, 98, 794-806.	1.5	27
588	Nitrogen cycling and export in California chaparral: the role of climate in shaping ecosystem responses to fire. <i>Ecological Monographs</i> , 2017, 87, 76-90.	2.4	28
589	Environmental and species-specific controls on $\delta^{13}C$ and $\delta^{15}N$ in dominant woody plants from central-western Argentinian drylands. <i>Austral Ecology</i> , 2017, 42, 533-543.	0.7	13
590	Drought inhibits synergistic interactions of native and exotic litter mixtures during decomposition in temperate grasslands. <i>Plant and Soil</i> , 2017, 415, 257-268.	1.8	13
591	Photodegradation effects are related to precipitation amount, precipitation frequency and litter traits in a desert ecosystem. <i>Soil Biology and Biochemistry</i> , 2017, 115, 383-392.	4.2	23
593	The relationship between contrasting ages of groundwater and streamflow. <i>Geophysical Research Letters</i> , 2017, 44, 8925-8935.	1.5	71
594	2. Soils in Arid and Semiarid Environments: the Importance of Organic Carbon and Microbial Populations. <i>Facing the Future.</i> , 2017, , 15-30.		2
595	8 The Response of Arid Soil Communities to Climate Change. , 2017, , 139-158.		1
596	Variations in soil microbial community composition and enzymatic activities in response to increased N deposition and precipitation in Inner Mongolian grassland. <i>Applied Soil Ecology</i> , 2017, 119, 275-285.	2.1	43
597	Exploring the effects of the "Grain for Green" program on the differences in soil water in the semi-arid Loess Plateau of China. <i>Ecological Engineering</i> , 2017, 107, 144-151.	1.6	45
598	Developing a predictive environment-based model for mapping biological soil crust patterns at the local scale in the Sahel. <i>Catena</i> , 2017, 158, 250-265.	2.2	11
599	Nematode Community Response to Green Infrastructure Design in a Semiarid City. <i>Journal of Environmental Quality</i> , 2017, 46, 687-694.	1.0	20
600	Prior rainfall pattern determines response of net ecosystem carbon exchange to a large rainfall event in a semi-arid woodland. <i>Agriculture, Ecosystems and Environment</i> , 2017, 247, 112-119.	2.5	11
601	Productivity and CO ₂ Exchange of Great Plains Ecoregions. I. Shortgrass Steppe: Flux Tower Estimates. <i>Rangeland Ecology and Management</i> , 2017, 70, 700-717.	1.1	7

#	ARTICLE	IF	CITATIONS
602	Foliar nutrient resorption patterns of four functional plants along a precipitation gradient on the Tibetan Changtang Plateau. <i>Ecology and Evolution</i> , 2017, 7, 7201-7212.	0.8	58
603	Prior exposure to diurnal heating influences soil respiration and N availability upon rewetting. <i>Biology and Fertility of Soils</i> , 2017, 53, 715-721.	2.3	4
604	Meta-analysis of Phosphorus Loss from No-till Soils. <i>Journal of Environmental Quality</i> , 2017, 46, 1028-1037.	1.0	58
605	Wetting-drying cycles influence on soil respiration in two Mediterranean ecosystems. <i>European Journal of Soil Biology</i> , 2017, 82, 10-16.	1.4	12
606	The consequences of replacing wildlife with livestock in Africa. <i>Scientific Reports</i> , 2017, 7, 17196.	1.6	102
607	Water-use efficiency in response to simulated increasing precipitation in a temperate desert ecosystem of Xinjiang, China. <i>Journal of Arid Land</i> , 2017, 9, 823-836.	0.9	11
608	Climate and soil texture influence patterns of forb species richness and composition in big sagebrush plant communities across their spatial extent in the western U.S.. <i>Plant Ecology</i> , 2017, 218, 957-970.	0.7	17
609	Long-term simulated nitrogen deposition alters the plant cover dynamics of a Mediterranean rosemary shrubland in Central Spain through defoliation. <i>Environmental Science and Pollution Research</i> , 2017, 24, 26227-26237.	2.7	8
610	Grazing and edaphic properties mediate soil biotic response to altered precipitation patterns in a semiarid prairie. <i>Soil Biology and Biochemistry</i> , 2017, 113, 263-274.	4.2	16
611	Taphocenoses of temporary ponds in the steppe zone of European Russia by algo-zoological analysis of recent sediments. <i>Biology Bulletin</i> , 2017, 44, 322-330.	0.1	2
612	Precipitation timing and soil heterogeneity regulate the growth and seed production of the invasive grass red brome. <i>Biological Invasions</i> , 2017, 19, 1339-1350.	1.2	19
613	Combined effects of reduced irrigation and water quality on the soil microbial community of a citrus orchard under semi-arid conditions. <i>Soil Biology and Biochemistry</i> , 2017, 104, 226-237.	4.2	94
614	Responses of soil microbial functional genes to global changes are indirectly influenced by aboveground plant biomass variation. <i>Soil Biology and Biochemistry</i> , 2017, 104, 18-29.	4.2	75
615	Effects of exotic annual grass litter and local environmental gradients on annual plant community structure. <i>Biological Invasions</i> , 2017, 19, 479-491.	1.2	16
616	Direct and indirect effects of shifting rainfall on soil microbial respiration and enzyme activity in a semi-arid system. <i>Plant and Soil</i> , 2017, 411, 333-346.	1.8	39
617	Spatial patterns of soil resources under different land use in <i>Prosopis</i> woodlands of the Monte desert. <i>Catena</i> , 2017, 149, 86-97.	2.2	18
618	Contribution of biological crust to soil CO ₂ efflux in a Mediterranean shrubland ecosystem. <i>Geoderma</i> , 2017, 289, 11-19.	2.3	31
619	Contrasting response of two grassland soils to N addition and moisture levels: N ₂ O emission and functional gene abundance. <i>Journal of Soils and Sediments</i> , 2017, 17, 384-392.	1.5	21

#	ARTICLE	IF	CITATIONS
620	Soil biodiversity and environmental change in European forests. <i>Central European Forestry Journal</i> , 2017, 63, 59-65.	0.2	10
621	Rapid root responses of seedlings exposed to a postdrought water pulse. <i>American Journal of Botany</i> , 2017, 104, 1816-1824.	0.8	3
622	1. An Introduction to Arid Soils and Their Biology. , 2017, , 1-14.		6
623	The concurrent use of novel soil surface microclimate measurements to evaluate CO ₂ pulses in biocrusted interspaces in a cool desert ecosystem. <i>Biogeochemistry</i> , 2017, 135, 239-249.	1.7	58
624	Tropical Dry Deciduous Forest: Research Trends and Emerging Features. , 2017, , .		15
625	Productivity and Nutrient Cycling. , 2017, , 111-147.		0
627	Ecosystem function in complex mountain terrain: Combining models and long-term observations to advance process-based understanding. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 825-845.	1.3	19
628	Experimental and observational studies find contrasting responses of soil nutrients to climate change. <i>ELife</i> , 2017, 6, .	2.8	79
629	Comparisons of stemflow and its bio-/abiotic influential factors between two xerophytic shrub species. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 1421-1438.	1.9	35
630	The Impact of Hydration and Temperature on Bacterial Diversity in Arid Soil Mesocosms. <i>Frontiers in Microbiology</i> , 2017, 8, 1078.	1.5	25
631	Ammonia-Oxidizing Archaea Are More Resistant Than Denitrifiers to Seasonal Precipitation Changes in an Acidic Subtropical Forest Soil. <i>Frontiers in Microbiology</i> , 2017, 8, 1384.	1.5	18
632	A spring rainfall pulse causes greater in situ photosynthetic upregulation for <i>Bromus tectorum</i> compared to co-occurring native herbaceous species. <i>Environmental and Experimental Botany</i> , 2017, 143, 51-58.	2.0	2
633	Small rainfall pulses affected leaf photosynthesis rather than biomass production of dominant species in semiarid grassland community on Loess Plateau of China. <i>Functional Plant Biology</i> , 2017, 44, 1229.	1.1	15
634	Abiotic versus biotic controls on soil nitrogen cycling in drylands along a 3200-km transect. <i>Biogeochemistry</i> , 2017, 14, 989-1001.	1.3	24
635	Drought consistently alters the composition of soil fungal and bacterial communities in grasslands from two continents. <i>Global Change Biology</i> , 2018, 24, 2818-2827.	4.2	221
636	Model-data fusion approach to quantify evapotranspiration and net ecosystem exchange across the sagebrush ecosystem at different temporal resolutions. <i>Ecohydrology</i> , 2018, 11, e1957.	1.1	2
637	Plant and microbial biomarkers suggest mechanisms of soil organic carbon accumulation in a Mojave Desert ecosystem under elevated CO ₂ . <i>Soil Biology and Biochemistry</i> , 2018, 120, 48-57.	4.2	21
638	Warming and Elevated CO ₂ Interact to Alter Seasonality and Reduce Variability of Soil Water in a Semiarid Grassland. <i>Ecosystems</i> , 2018, 21, 1533-1544.	1.6	11

#	ARTICLE	IF	CITATIONS
639	Elevated CO_2 and water addition enhance nitrogen turnover in grassland plants with implications for temporal stability. <i>Ecology Letters</i> , 2018, 21, 674-682.	3.0	20
640	The effect of biological soil crusts on soil moisture dynamics under different rainfall conditions in the Tengger Desert, China. <i>Hydrological Processes</i> , 2018, 32, 1363-1374.	1.1	20
641	Abiotic factors affect the recruitment and biomass of perennial grass and evergreen shrub seedlings in denuded areas of Patagonian Monte rangelands. <i>Journal of Environmental Management</i> , 2018, 218, 118-128.	3.8	7
642	Repeated rainfall in summer induces prolonged high soil respiration in a semi-arid floodplain woodland. <i>Ecohydrology</i> , 2018, 11, e1984.	1.1	2
643	Soil biological responses to C, N and P fertilization in a polar desert of Antarctica. <i>Soil Biology and Biochemistry</i> , 2018, 122, 7-18.	4.2	23
644	Photoautotrophic organisms control microbial abundance, diversity, and physiology in different types of biological soil crusts. <i>ISME Journal</i> , 2018, 12, 1032-1046.	4.4	197
645	Agroecosystem tradeoffs associated with conversion to subsurface drip irrigation in organic systems. <i>Agricultural Water Management</i> , 2018, 202, 1-8.	2.4	25
646	Interactive effects of compost and pre-planting soil moisture on plant biomass, nutrition and formation of mycorrhizas: a context dependent response. <i>Scientific Reports</i> , 2018, 8, 1509.	1.6	20
647	Higher precipitation strengthens the microbial interactions in semi-arid grassland soils. <i>Global Ecology and Biogeography</i> , 2018, 27, 570-580.	2.7	151
648	Renewed Estimates of Grassland Aboveground Biomass Showing Drought Impacts. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 138-148.	1.3	11
649	Soil Carbon Dynamics Under Different Land Uses in Dryland Mediterranean Conditions. , 2018, , 39-52.		1
650	Simulated climate change affects how biocrusts modulate water gains and desiccation dynamics after rainfall events. <i>Ecohydrology</i> , 2018, 11, e1935.	1.1	30
651	Foliar nutrient resorption responses of three life-form plants to water and nitrogen additions in a temperate desert. <i>Plant and Soil</i> , 2018, 424, 479-489.	1.8	43
652	An increase in precipitation exacerbates negative effects of nitrogen deposition on soil cations and soil microbial communities in a temperate forest. <i>Environmental Pollution</i> , 2018, 235, 293-301.	3.7	58
653	Groundcover management changes grapevine root fungal communities and plant-soil feedback. <i>Plant and Soil</i> , 2018, 424, 419-433.	1.8	21
654	Foliar C, N, and P stoichiometry characterize successful plant ecological strategies in the Sonoran Desert. <i>Plant Ecology</i> , 2018, 219, 775-788.	0.7	47
655	How and to what extent does precipitation on multi-temporal scales and soil moisture at different depths determine carbon flux responses in a water-limited grassland ecosystem?. <i>Science of the Total Environment</i> , 2018, 635, 1255-1266.	3.9	65
656	Divergent composition and turnover of soil organic nitrogen along a climate gradient in arid and semiarid grasslands. <i>Geoderma</i> , 2018, 327, 36-44.	2.3	20

#	ARTICLE	IF	CITATIONS
657	Increased growth rate (1982-2013) in global grasslands biomes. <i>Remote Sensing Letters</i> , 2018, 9, 550-558.	0.6	0
658	Does the severity of non-flow periods influence ecosystem structure and function of temporary streams? A mesocosm study. <i>Freshwater Biology</i> , 2018, 63, 613-625.	1.2	11
659	Differential seasonal effects of water addition and nitrogen fertilization on microbial biomass and diversity in a temperate desert. <i>Catena</i> , 2018, 161, 27-36.	2.2	40
660	Responses of soil microbial community to nitrogen fertilizer and precipitation regimes in a semi-arid steppe. <i>Journal of Soils and Sediments</i> , 2018, 18, 762-774.	1.5	27
661	Influence of edaphic factors on plant distribution and diversity in the arid area of Xinjiang, Northwest China. <i>Arid Land Research and Management</i> , 2018, 32, 38-56.	0.6	27
662	The Impacts of Soil Fertility and Salinity on Soil Nitrogen Dynamics Mediated by the Soil Microbial Community Beneath the Halophytic Shrub Tamarisk. <i>Microbial Ecology</i> , 2018, 75, 985-996.	1.4	39
663	Understanding the impacts of catchment characteristics on the shape of the storage capacity curve and its influence on flood flows. <i>Hydrology Research</i> , 2018, 49, 90-106.	1.1	16
664	Mycorrhizal fungi enhance plant nutrient acquisition and modulate nitrogen loss with variable water regimes. <i>Global Change Biology</i> , 2018, 24, e171-e182.	4.2	105
665	Soil Respiration of Biologically-Crusted Soils in Response to Simulated Precipitation Pulses in the Tengger Desert, Northern China. <i>Pedosphere</i> , 2018, 28, 103-113.	2.1	14
666	Labile carbon limits in-stream mineralization in a subtropical headwater catchment affected by gully and channel erosion. <i>Journal of Soils and Sediments</i> , 2018, 18, 648-659.	1.5	4
667	What stabilizes biological soil crusts in the Negev Desert?. <i>Plant and Soil</i> , 2018, 429, 9-18.	1.8	19
668	The role of non-rainfall water on physiological activation in desert biological soil crusts. <i>Journal of Hydrology</i> , 2018, 556, 790-799.	2.3	25
669	New insights into the role of microbial community composition in driving soil respiration rates. <i>Soil Biology and Biochemistry</i> , 2018, 118, 35-41.	4.2	134
670	Water sources for woody shrubs on hillslopes: An investigation using isotopic and sapflow methods. <i>Ecohydrology</i> , 2018, 11, e1926.	1.1	16
671	Exposure to predicted precipitation patterns decreases population size and alters community structure of cyanobacteria in biological soil crusts from the Chihuahuan Desert. <i>Environmental Microbiology</i> , 2018, 20, 259-269.	1.8	83
672	Rainfall Intensification Enhances Deep Percolation and Soil Water Content in Tilled and No-Till Cropping Systems of the US Midwest. <i>Vadose Zone Journal</i> , 2018, 17, 1-12.	1.3	18
673	Reduced Carbon Dioxide Sink and Methane Source under Extreme Drought Condition in an Alpine Peatland. <i>Sustainability</i> , 2018, 10, 4285.	1.6	22
674	Differing Responses to Rainfall Suggest More Than One Functional Type of Grassland in South Africa. <i>Remote Sensing</i> , 2018, 10, 2055.	1.8	6

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675	One-time application of biosolids to ungrazed semiarid rangelands: 14-yr soil responses. <i>Canadian Journal of Soil Science</i> , 2018, 98, 696-708.	0.5	11
676	Effects of Water Regimes on Methane Emissions in Peatland and Gley Marsh. <i>Vadose Zone Journal</i> , 2018, 17, 180017.	1.3	3
677	Satellite evidence of substantial rain-induced soil emissions of ammonia across the Sahel. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16713-16727.	1.9	17
678	Drying and Rainfall Shape the Structure and Functioning of Nitrifying Microbial Communities in Riverbed Sediments. <i>Frontiers in Microbiology</i> , 2018, 9, 2794.	1.5	37
679	The influence of drought intensity on soil respiration during and after multiple drying-rewetting cycles. <i>Soil Biology and Biochemistry</i> , 2018, 127, 82-89.	4.2	32
680	Ecosystem Ecology and Geochemistry of Cuatro Ciénegas. <i>Cuatro Ciénegas Basin: an Endangered Hyperdiverse Oasis</i> , 2018, , .	0.4	0
681	Revegetation modifies patterns of temporal soil respiration responses to extreme-drying-and-rewetting in a semiarid ecosystem. <i>Plant and Soil</i> , 2018, 433, 227-241.	1.8	9
682	Rainfall pulse response of carbon fluxes in a temperate grass ecosystem in the semiarid Loess Plateau. <i>Ecology and Evolution</i> , 2018, 8, 11179-11189.	0.8	11
683	Shoot Nutrient Content and Nutrient Resorption of <i>Leymus chinensis</i> in Various Legume Mixtures. <i>Frontiers in Plant Science</i> , 2018, 9, 1483.	1.7	7
684	Relationships Among Nutrient and Sediment Fluxes, Hydrological Variability, Fire, and Land Cover in Coastal California Catchments. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2568-2589.	1.3	15
685	Carbon, Nitrogen, and Phosphorus in Terrestrial Pools: Where Are the Main Nutrients Located in the Grasslands of the Cuatro Ciénegas Basin?. <i>Cuatro Ciénegas Basin: an Endangered Hyperdiverse Oasis</i> , 2018, , 1-13.	0.4	0
686	Terrestrial N Cycling in an Endangered Oasis. <i>Cuatro Ciénegas Basin: an Endangered Hyperdiverse Oasis</i> , 2018, , 15-29.	0.4	0
687	Assessing Badland Sediment Sources Using Unmanned Aerial Vehicles. , 2018, , 255-276.		3
688	The effects of warming and nitrogen addition on ecosystem respiration in a Tibetan alpine meadow: The significance of winter warming. <i>Ecology and Evolution</i> , 2018, 8, 10113-10125.	0.8	23
689	Water Distribution in an Arid Zone Soil: Numerical Analysis of Data from a Large Weighing Lysimeter. <i>Vadose Zone Journal</i> , 2018, 17, 1-17.	1.3	24
690	Short-Term Transcriptional Response of Microbial Communities to Nitrogen Fertilization in a Pine Forest Soil. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	16
691	Water source partitioning among plant functional types in a semi-arid dune ecosystem. <i>Journal of Vegetation Science</i> , 2018, 29, 671-683.	1.1	27
692	Effects of changing C and N availability on soil respiration dynamics in a temperate grassland in northern China. <i>Geoderma</i> , 2018, 329, 20-26.	2.3	8

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693	Effects of rainfall manipulations on carbon exchange of cyanobacteria and moss-dominated biological soil crusts. <i>Soil Biology and Biochemistry</i> , 2018, 124, 24-31.	4.2	33
694	Seasonal controls on ecosystem-scale CO ₂ and energy exchange in a Sonoran Desert characterized by the saguaro cactus (<i>Carnegiea gigantea</i>). <i>Oecologia</i> , 2018, 187, 977-994.	0.9	6
695	Response of soil microbial communities to altered precipitation: A global synthesis. <i>Global Ecology and Biogeography</i> , 2018, 27, 1121-1136.	2.7	100
696	Hydrological response of biological soil crusts to global warming: A ten-year simulative study. <i>Global Change Biology</i> , 2018, 24, 4960-4971.	4.2	73
697	Partitioning water source and sinking process of a groundwater-dependent desert plant community. <i>Plant and Soil</i> , 2018, 430, 73-85.	1.8	11
698	Improving Crop Yield and Nutrient Use Efficiency via Biofertilization—A Global Meta-analysis. <i>Frontiers in Plant Science</i> , 2017, 8, 2204.	1.7	235
699	Effects of anthropogenic nitrogen deposition on soil nitrogen mineralization and immobilization in grassland soil under semiarid climatic conditions. <i>Environmental Monitoring and Assessment</i> , 2018, 190, 490.	1.3	2
700	From microhabitat to ecosystem: identifying the biophysical factors controlling soil CO ₂ dynamics in a karst shrubland. <i>European Journal of Soil Science</i> , 2018, 69, 1018-1029.	1.8	5
701	UV-B radiation and shrub canopy effects on surface litter decomposition in a shrub-invaded dry grassland. <i>Journal of Arid Environments</i> , 2018, 157, 13-21.	1.2	22
702	Conversion of a Semiarid Nevada Soil to Irrigated Agriculture Preferentially Removes Labile Carbon. <i>Soil Systems</i> , 2018, 2, 38.	1.0	3
703	Inter-Annual Precipitation Variability Decreases Switchgrass Productivity from Arid to Mesic Environments. <i>Bioenergy Research</i> , 2018, 11, 614-622.	2.2	7
704	Nitrate Signaling in Plants: Introduction to the Problem. <i>Russian Journal of Plant Physiology</i> , 2018, 65, 477-489.	0.5	5
705	Large herbivores influence plant litter decomposition by altering soil properties and plant quality in a meadow steppe. <i>Scientific Reports</i> , 2018, 8, 9089.	1.6	28
706	Phenological responses to nitrogen and water addition are linked to plant growth patterns in a desert herbaceous community. <i>Ecology and Evolution</i> , 2018, 8, 5139-5152.	0.8	37
707	Deep soil water storage varies with vegetation type and rainfall amount in the Loess Plateau of China. <i>Scientific Reports</i> , 2018, 8, 12346.	1.6	33
708	Mineral Nutrition of Plants in Australia's Arid Zone. , 2018, , 77-102.		0
709	Changes in functional gene structure and metabolic potential of the microbial community in biological soil crusts along a revegetation chronosequence in the Tengger Desert. <i>Soil Biology and Biochemistry</i> , 2018, 126, 40-48.	4.2	49
710	Addressing agricultural nitrogen losses in a changing climate. <i>Nature Sustainability</i> , 2018, 1, 399-408.	11.5	175

#	ARTICLE	IF	CITATIONS
711	A pulse of summer precipitation after the dry season triggers changes in ectomycorrhizal formation, diversity, and community composition in a Mediterranean forest in California, USA. <i>Mycorrhiza</i> , 2018, 28, 665-677.	1.3	24
712	Nitrogen Budget and Topographic Controls on Nitrous Oxide in a Shale-Based Watershed. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1888-1908.	1.3	11
713	Soil Nutrients and Soil Carbon Storage. , 2018, , 167-205.		8
714	Soil Erosion and C Losses: Strategies for Building Soil Carbon. , 2018, , 215-238.		8
715	Water-spender strategy is linked to higher leaf nutrient concentrations across plant species colonizing a dry and nutrient-poor epiphytic habitat. <i>Environmental and Experimental Botany</i> , 2018, 153, 302-310.	2.0	29
716	Predominance of precipitation event controls ecosystem CO ₂ exchange in an Inner Mongolian desert grassland, China. <i>Journal of Cleaner Production</i> , 2018, 197, 781-793.	4.6	33
717	Seasonal Patterns of Root Production with Water and Nitrogen Additions Across Three Dryland Ecosystems. <i>Ecosystems</i> , 2019, 22, 1664-1675.	1.6	5
718	Foliar fertilization of two dominant species in a semiarid ecosystem improves their ecophysiological status and the use efficiency of a water pulse. <i>Environmental and Experimental Botany</i> , 2019, 167, 103854.	2.0	12
719	On the uniformity of rainfall distribution over India. <i>Journal of Hydrology</i> , 2019, 578, 124017.	2.3	15
720	Rainfall-dependent impacts of threatened ecosystem engineers on organic matter cycling. <i>Functional Ecology</i> , 2019, 33, 2254-2266.	1.7	8
721	Temporal and spatial variability in soil CO ₂ efflux in the patagonian steppe. <i>Plant and Soil</i> , 2019, 444, 165-176.	1.8	11
722	Responses of plant biomass and nutrients to fire vary with functional group and slope aspect in a semiarid restored grassland on the Loess Plateau. <i>Journal of Arid Environments</i> , 2019, 171, 104008.	1.2	7
723	Comparison of organic matter in intermittent and perennial rivers of Mediterranean Chile with the support of citizen science. <i>Revista Chilena De Historia Natural</i> , 2019, 92, .	0.5	11
724	Soil warming and nitrogen deposition alter soil respiration, microbial community structure and organic carbon composition in a coniferous forest on eastern Tibetan Plateau. <i>Geoderma</i> , 2019, 353, 283-292.	2.3	42
725	Nitrogen turnover in a repeatedly manured arid subtropical soil: Incubation studies with ¹⁵ N isotopes. <i>Journal of Plant Nutrition and Soil Science</i> , 2019, 182, 836-845.	1.1	1
726	Effects of drought and water pulses on microbial functionality and the role of Cyanoprokaryota in the rhizospheres of gypsophytes. <i>Science of the Total Environment</i> , 2019, 691, 919-932.	3.9	7
727	The response of root traits to precipitation change of herbaceous species in temperate steppes. <i>Functional Ecology</i> , 2019, 33, 2030-2041.	1.7	35
728	Snowpack influences spatial and temporal soil nitrogen dynamics in a western U.S. montane forested watershed. <i>Ecosphere</i> , 2019, 10, e02794.	1.0	3

#	ARTICLE	IF	CITATIONS
729	Surviving drought: a framework for understanding animal responses to small rain events in the arid zone. <i>Ecology</i> , 2019, 100, e02884.	1.5	8
730	Using vegetation correction coefficient to modify a dynamic particulate nutrient loss model for monthly nitrogen and phosphorus load predictions: a case study in a small loess hilly watershed. <i>Environmental Science and Pollution Research</i> , 2019, 26, 32610-32623.	2.7	5
731	Advances and perspectives on soil water research in China's Loess Plateau. <i>Earth-Science Reviews</i> , 2019, 199, 102962.	4.0	134
732	Greater soil carbon and nitrogen in a Mojave Desert ecosystem after 10 years exposure to elevated CO ₂ . <i>Geoderma</i> , 2019, 355, 113915.	2.3	13
733	Nonlinear response of ecosystem respiration to multiple levels of temperature increases. <i>Ecology and Evolution</i> , 2019, 9, 925-937.	0.8	12
734	Compost and soil moisture effects on seasonal carbon and nitrogen dynamics, greenhouse gas fluxes and global warming potential of semi-arid soils. <i>International Journal of Recycling of Organic Waste in Agriculture</i> , 2019, 8, 367-376.	2.0	13
735	Physiological and Biochemical Responses of Orange Trees to Different Deficit Irrigation Regimes. <i>Plants</i> , 2019, 8, 423.	1.6	10
736	Drought and phosphorus affect productivity of a mesic grassland via shifts in root traits of dominant species. <i>Plant and Soil</i> , 2019, 444, 457-473.	1.8	12
737	Effects of moisture dynamics on bryophyte carbon fluxes in a tropical cloud forest. <i>New Phytologist</i> , 2019, 222, 1766-1777.	3.5	12
738	Evolutionary history constrains microbial traits across environmental variation. <i>Nature Ecology and Evolution</i> , 2019, 3, 1064-1069.	3.4	76
739	Vegetation biomass and soil moisture coregulate bacterial community succession under altered precipitation regimes in a desert steppe in northwestern China. <i>Soil Biology and Biochemistry</i> , 2019, 136, 107520.	4.2	82
740	Modelling land-atmosphere daily exchanges of NO, NH ₃ , and CO ₂ in a semi-arid grazed ecosystem in Senegal. <i>Biogeosciences</i> , 2019, 16, 2049-2077.	1.3	10
741	Evapotranspiration partitioning in dryland ecosystems: A global meta-analysis of in situ studies. <i>Journal of Hydrology</i> , 2019, 576, 123-136.	2.3	52
742	Comparison of the performance of SWAT, IHACRES and artificial neural networks models in rainfall-runoff simulation (case study: Kan watershed, Iran). <i>Physics and Chemistry of the Earth</i> , 2019, 111, 65-77.	1.2	39
743	Stability of Ecosystem CO ₂ Flux in Response to Changes in Precipitation in a Semiarid Grassland. <i>Sustainability</i> , 2019, 11, 2597.	1.6	4
744	Initial lignin content as an indicator for predicting leaf litter decomposition and the mixed effects of two perennial gramineous plants in a desert steppe: A 5 year long term study. <i>Land Degradation and Development</i> , 2019, 30, 1645-1654.	1.8	13
745	Role of Grazing Intensity on Shaping Arbuscular Mycorrhizal Fungi Communities in Patagonian Semiarid Steppes. <i>Rangeland Ecology and Management</i> , 2019, 72, 692-699.	1.1	23
746	The Growth and N Retention of Two Annual Desert Plants Varied Under Different Nitrogen Deposition Rates. <i>Frontiers in Plant Science</i> , 2019, 10, 356.	1.7	4

#	ARTICLE	IF	CITATIONS
747	Nitrogen and Phosphorus Resorption in Planted Forests Worldwide. <i>Forests</i> , 2019, 10, 201.	0.9	24
748	Integrating Soil Microbiology into Ecosystem Science. <i>Advances in Environmental Microbiology</i> , 2019, 65-102.	0.1	1
749	Responses of soil respiration to rainfall pulses in a natural grassland community on the semi-arid Loess Plateau of China. <i>Catena</i> , 2019, 178, 199-208.	2.2	23
751	Alfalfa monocultures promote soil organic carbon accumulation to a greater extent than perennial grass monocultures or grass-alfalfa mixtures. <i>Ecological Engineering</i> , 2019, 131, 53-62.	1.6	20
752	Coupling and Decoupling of Soil Carbon and Nutrient Cycles Across an Aridity Gradient in the Drylands of Northern China: Evidence From Ecoenzymatic Stoichiometry. <i>Global Biogeochemical Cycles</i> , 2019, 33, 559-569.	1.9	44
753	Temporal changes of soil respiration in a subalpine meadow in the Heihe River Basin, Northwest China. <i>Catena</i> , 2019, 178, 267-275.	2.2	9
755	Intermittent flooding of organic-rich soil promotes the formation of denitrification hot moments and hot spots. <i>Ecosphere</i> , 2019, 10, e02549.	1.0	29
756	Drought differentially affects autotrophic and heterotrophic soil respiration rates and their temperature sensitivity. <i>Biology and Fertility of Soils</i> , 2019, 55, 275-283.	2.3	33
757	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
758	Effects of long term fencing on biomass, coverage, density, biodiversity and nutritional values of vegetation community in an alpine meadow of the Qinghai-Tibet Plateau. <i>Ecological Engineering</i> , 2019, 130, 80-93.	1.6	48
759	Influence of rewetting on microbial communities involved in nitrification and denitrification in a grassland soil after a prolonged drought period. <i>Scientific Reports</i> , 2019, 9, 2280.	1.6	19
760	Effect of Deficit Irrigation on Nitrogen Uptake of Sunflower in the Low Desert Region of California. <i>Water (Switzerland)</i> , 2019, 11, 2340.	1.2	11
761	Fate of N additions in a multiple resource-limited Mediterranean oak savanna. <i>Ecosphere</i> , 2019, 10, e02921.	1.0	3
762	Tropical dry forest soils: global change and local-scale consequences for soil biogeochemical processes. <i>Developments in Soil Science</i> , 2019, 36, 109-130.	0.5	6
763	Dynamic Controls on Field-scale Soil Nitrous Oxide Hot Spots and Hot Moments Across a Microtopographic Gradient. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3618-3634.	1.3	21
764	Soil resource availability and its effect on the ecophysiology and establishment of <i>Stipa pulchra</i> . <i>Journal of Plant Ecology</i> , 2019, 12, 603-614.	1.2	4
765	Changes in soil physical and chemical properties after short drought stress in semi-humid forests. <i>Geoderma</i> , 2019, 338, 170-177.	2.3	39
766	Environmental controls and long-term changes on carbon stocks under agricultural lands. <i>Soil and Tillage Research</i> , 2019, 186, 310-321.	2.6	22

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767	Simulating rewetting events in intermittent rivers and ephemeral streams: A global analysis of leached nutrients and organic matter. <i>Global Change Biology</i> , 2019, 25, 1591-1611.	4.2	71
768	Effect of global warming on soil respiration and cumulative carbon release in biocrust-dominated areas in the Tengger Desert, northern China. <i>Journal of Soils and Sediments</i> , 2019, 19, 1161-1170.	1.5	27
769	A conceptual framework for understanding the biogeochemistry of dry riverbeds through the lens of soil science. <i>Earth-Science Reviews</i> , 2019, 188, 441-453.	4.0	54
770	Comparison of Soil Organic Matter Transformation Processes in Different Alpine Ecosystems in the Qinghai-Tibet Plateau. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2019, 124, 33-45.	1.3	15
771	Biochar has little effect on soil dissolved organic carbon pool 5 years after biochar application under field condition. <i>Soil Use and Management</i> , 2019, 35, 466-477.	2.6	27
772	Responses of biological soil crusts to rehabilitation strategies. <i>Journal of Arid Environments</i> , 2019, 163, 77-85.	1.2	39
773	Responses of soil respiration to rainfall addition in a desert ecosystem: Linking physiological activities and rainfall pattern. <i>Science of the Total Environment</i> , 2019, 650, 3007-3016.	3.9	22
774	Broad-Scale Patterns of Soil Carbon (C) Pools and Fluxes Across Semiarid Ecosystems are Linked to Climate and Soil Texture. <i>Ecosystems</i> , 2019, 22, 742-753.	1.6	13
775	Climatic Sensitivity of Dryland Soil CO ₂ Fluxes Differs Dramatically with Biological Soil Crust Successional State. <i>Ecosystems</i> , 2019, 22, 15-32.	1.6	49
776	Forage nitrogen yield and soil nitrogen in artificial grasslands with varied Medicago seedling proportion. <i>Archives of Agronomy and Soil Science</i> , 2020, 66, 110-125.	1.3	3
777	Moisture regime influence on soil carbon stock and carbon sequestration rates in semi-arid forests of the National Capital Region, India. <i>Journal of Forestry Research</i> , 2020, 31, 2323-2332.	1.7	7
778	Nitrogen deposition magnifies the sensitivity of desert steppe plant communities to large changes in precipitation. <i>Journal of Ecology</i> , 2020, 108, 598-610.	1.9	41
779	Water acquisition, sharing and redistribution by roots: applications to agroforestry systems. <i>Plant and Soil</i> , 2020, 453, 17-28.	1.8	70
780	Historical Drought Affects Microbial Population Dynamics and Activity During Soil Drying and Re-Wet. <i>Microbial Ecology</i> , 2020, 79, 662-674.	1.4	33
781	Fungal connections between plants and biocrusts facilitate plants but have little effect on biocrusts. <i>Journal of Ecology</i> , 2020, 108, 894-907.	1.9	5
782	Suppression of amino acid and oligopeptide mineralization by organic manure addition in a semiarid environment. <i>Land Degradation and Development</i> , 2020, 31, 1915-1925.	1.8	1
783	Hydrological effects of tree invasion on a dry coastal Hawaiian ecosystem. <i>Forest Ecology and Management</i> , 2020, 458, 117653.	1.4	4
784	Biocrust regulates the effects of water and temperature on soil microbial and nematode communities in a semiarid ecosystem. <i>Land Degradation and Development</i> , 2020, 31, 1335-1343.	1.8	9

#	ARTICLE	IF	CITATIONS
785	Effects of nitrogen addition on above-and belowground litter decomposition and nutrient dynamics in the litter-soil continuum in the temperate steppe of Inner Mongolia, China. <i>Journal of Arid Environments</i> , 2020, 172, 104036.	1.2	24
786	Rainfall intensification increases nitrate leaching from tilled but not no-till cropping systems in the U.S. Midwest. <i>Agriculture, Ecosystems and Environment</i> , 2020, 290, 106747.	2.5	52
787	Soil nutrient dynamics in colonies of the yellow-legged seagull (<i>Larus michahellis</i>) in different biogeographical zones. <i>Geoderma</i> , 2020, 361, 114109.	2.3	5
788	Non-rainfall Moisture: A Key Driver of Microbial Respiration from Standing Litter in Arid, Semiarid, and Mesic Grasslands. <i>Ecosystems</i> , 2020, 23, 1154-1169.	1.6	31
789	Biocrusts are associated with increased plant biomass and nutrition at seedling stage independently of root-associated fungal colonization. <i>Plant and Soil</i> , 2020, 446, 331-342.	1.8	9
790	Responses of soil carbon decomposition to drying-rewetting cycles: A meta-analysis. <i>Geoderma</i> , 2020, 361, 114069.	2.3	55
791	Inter-seasonal Nitrogen Loss with Drought Depends on Fertilizer Management in a Seminatural Australian Grassland. <i>Ecosystems</i> , 2020, 23, 1281-1293.	1.6	10
792	Halving sunlight reveals no carbon limitation of aboveground biomass production in alpine grassland. <i>Global Change Biology</i> , 2020, 26, 1857-1872.	4.2	17
793	Decomposition and Nutrient Cycling. , 2020, , 265-315.		1
794	Precipitation variability drives the reduction of total soil respiration and heterotrophic respiration in response to nitrogen addition in a temperate forest plantation. <i>Biology and Fertility of Soils</i> , 2020, 56, 273-279.	2.3	17
795	Physiological characterisation of coprophilous fungal isolates that behave as plant root associates. <i>Soil Research</i> , 2020, 58, 748.	0.6	5
796	Calibration, measurement, and characterization of soil moisture dynamics in a central Amazonian tropical forest. <i>Vadose Zone Journal</i> , 2020, 19, e20070.	1.3	10
797	Losing Australia's native gardeners. <i>Science</i> , 2020, 370, 925-925.	6.0	0
798	Crust cover and prior soil moisture status affect the response of soil microbial community and function to extreme rain events in an arid area. <i>European Journal of Soil Biology</i> , 2020, 101, 103243.	1.4	12
799	Effects of nitrogen deposition and increased precipitation on soil phosphorus dynamics in a temperate forest. <i>Geoderma</i> , 2020, 380, 114650.	2.3	22
800	Increasing Precipitation Interval Has More Impacts on Litter Mass Loss Than Decreasing Precipitation Amount in Desert Steppe. <i>Frontiers in Environmental Science</i> , 2020, 8, .	1.5	7
801	Comparison of cyanobacterial communities in temperate deserts: A cue for artificial inoculation of biological soil crusts. <i>Science of the Total Environment</i> , 2020, 745, 140970.	3.9	29
802	Rainfall pulse response of carbon exchange to the timing of natural intra-annual rainfall in a temperate grass ecosystem. <i>Ecological Indicators</i> , 2020, 118, 106730.	2.6	8

#	ARTICLE	IF	CITATIONS
803	Exotic grass litter modulates seasonal pulse dynamics of CO ₂ and N ₂ O, but not NO, in Mediterranean-type coastal sage scrub at the wildland-urban interface. <i>Plant and Soil</i> , 2020, 456, 339-353.	1.8	8
804	Environmental factors affect the response of microbial extracellular enzyme activity in soils when determined as a function of water availability and temperature. <i>Ecology and Evolution</i> , 2020, 10, 10105-10115.	0.8	22
805	Links between soil microbial communities, functioning, and plant nutrition under altered rainfall in Australian grassland. <i>Ecological Monographs</i> , 2020, 90, e01424.	2.4	26
806	Differential Influence of No-Tillage and Precipitation Pulses on Soil Heterotrophic and Autotrophic Respiration of Summer Maize in the North China Plain. <i>Agronomy</i> , 2020, 10, 2004.	1.3	10
807	An Assessment of Climate Induced Increase in Soil Water Availability for Soil Bacterial Communities Exposed to Long-Term Differential Phosphorus Fertilization. <i>Frontiers in Microbiology</i> , 2020, 11, 682.	1.5	3
808	Predominant role of soil moisture in regulating the response of ecosystem carbon fluxes to global change factors in a semi-arid grassland on the Loess Plateau. <i>Science of the Total Environment</i> , 2020, 738, 139746.	3.9	25
809	Depth and topographic controls on microbial activity in a recently burned sub-alpine catchment. <i>Soil Biology and Biochemistry</i> , 2020, 148, 107844.	4.2	24
810	Simulated nitrogen deposition influences soil greenhouse gas fluxes in a Mediterranean dryland. <i>Science of the Total Environment</i> , 2020, 737, 139610.	3.9	13
811	Asymmetric effect of increased and decreased precipitation in different periods on soil and heterotrophic respiration in a semiarid grassland. <i>Agricultural and Forest Meteorology</i> , 2020, 291, 108039.	1.9	18
812	The saprotrophic <i>Pleurotus ostreatus</i> species complex: late Eocene origin in East Asia, multiple dispersal, and complex speciation. <i>IMA Fungus</i> , 2020, 11, 10.	1.7	17
813	Soil reconstruction after mining fails to restore soil function in an Australian arid woodland. <i>Restoration Ecology</i> , 2020, 28, A35.	1.4	11
814	Effects of rainfall amount and frequency on soil nitrogen mineralization in Zoigã alpine wetland. <i>European Journal of Soil Biology</i> , 2020, 97, 103170.	1.4	12
815	Rainfall amount and timing jointly regulate the responses of soil nitrogen transformation processes to rainfall increase in an arid desert ecosystem. <i>Geoderma</i> , 2020, 364, 114197.	2.3	24
816	Multiple scales of spatial heterogeneity control soil respiration responses to precipitation across a dryland rainfall gradient. <i>Plant and Soil</i> , 2020, 453, 423-443.	1.8	15
817	Microbial communities from arid environments on a global scale. A systematic review. <i>Biological Research</i> , 2020, 53, 29.	1.5	30
818	Environmental Controls on Carbon and Water Fluxes in an Old-growth Tropical Dry Forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2020JG005666.	1.3	16
819	Germination strategies under climate change scenarios along an aridity gradient. <i>Journal of Plant Ecology</i> , 2020, 13, 470-477.	1.2	5
820	Precipitation extremes influence patterns and partitioning of evapotranspiration and transpiration in a deciduous boreal larch forest. <i>Agricultural and Forest Meteorology</i> , 2020, 287, 107936.	1.9	21

#	ARTICLE	IF	CITATIONS
821	Nitrogen, Phosphorus, and Potassium Resorption Responses of Alfalfa to Increasing Soil Water and P Availability in a Semi-Arid Environment. <i>Agronomy</i> , 2020, 10, 310.	1.3	8
822	Above- and below-ground biodiversity jointly regulate temperate forest multifunctionality along a local-scale environmental gradient. <i>Journal of Ecology</i> , 2020, 108, 2012-2024.	1.9	74
823	Nitrogen pools in soil covered by biological soil crusts of different successional stages in a temperate desert in Central Asia. <i>Geoderma</i> , 2020, 366, 114166.	2.3	35
824	Response of ecosystem functioning to environmental variations in an artificial sand-binding vegetation desert in northwestern China. <i>Environmental Science and Pollution Research</i> , 2020, 27, 15325-15336.	2.7	9
825	Spring watering interactively improves aboveground net primary productivity and soil microbial biomass in a semi-arid grassland of China. <i>Catena</i> , 2020, 189, 104478.	2.2	10
826	Nitrogen economy of alpine plants on the north Tibetan Plateau: Nitrogen conservation by resorption rather than open sources through biological symbiotic fixation. <i>Ecology and Evolution</i> , 2020, 10, 2051-2061.	0.8	8
827	Improving the modelling and understanding of carbon-nitrogen-water interactions in a semiarid Mediterranean oak forest. <i>Ecological Modelling</i> , 2020, 420, 108976.	1.2	1
828	Flux variance similarity-based partitioning of evapotranspiration over a rainfed alfalfa field using high frequency eddy covariance data. <i>Agricultural and Forest Meteorology</i> , 2020, 285-286, 107907.	1.9	18
829	Responses of Soil Microbial Community Composition and Enzyme Activities to Land-Use Change in the Eastern Tibetan Plateau, China. <i>Forests</i> , 2020, 11, 483.	0.9	10
830	Global CO ₂ emissions from dry inland waters share common drivers across ecosystems. <i>Nature Communications</i> , 2020, 11, 2126.	5.8	73
831	Biocrusts Modulate Responses of Nitrous Oxide and Methane Soil Fluxes to Simulated Climate Change in a Mediterranean Dryland. <i>Ecosystems</i> , 2020, 23, 1690-1701.	1.6	16
832	Water Regulation in Cyanobacterial Biocrusts from Drylands: Negative Impacts of Anthropogenic Disturbance. <i>Water (Switzerland)</i> , 2020, 12, 720.	1.2	42
833	Livestock overgrazing disrupts the positive associations between soil biodiversity and nitrogen availability. <i>Functional Ecology</i> , 2020, 34, 1713-1720.	1.7	33
834	Effect of repeated drying-rewetting cycles on soil extracellular enzyme activities and microbial community composition in arid and semi-arid ecosystems. <i>European Journal of Soil Biology</i> , 2020, 98, 103187.	1.4	28
835	Recent responses of grassland net primary productivity to climatic and anthropogenic factors in Kyrgyzstan. <i>Land Degradation and Development</i> , 2020, 31, 2490-2506.	1.8	32
836	Linking Global Land Use/Land Cover to Hydrologic Soil Groups From 850 to 2015. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006356.	1.9	4
837	Macro-detritivores Assist Resolving the Dryland Decomposition Conundrum by Engineering an Underworld Heaven for Decomposers. <i>Ecosystems</i> , 2021, 24, 56-67.	1.6	7
838	Nutrient additions have direct and indirect effects on biocrust biomass in a long-term Chihuahuan Desert grassland experiment. <i>Journal of Arid Environments</i> , 2021, 184, 104317.	1.2	12

#	ARTICLE	IF	CITATIONS
839	Characterizing vegetation response to rainfall at multiple temporal scales in the Sahel-Sudano-Guinean region using transfer function analysis. <i>Remote Sensing of Environment</i> , 2021, 252, 112108.	4.6	18
840	Seabird droppings: Effects on a global and local level. <i>Science of the Total Environment</i> , 2021, 754, 142148.	3.9	25
841	Climatic warming enhances soil respiration resilience in an arid ecosystem. <i>Science of the Total Environment</i> , 2021, 756, 144005.	3.9	10
842	High-resolution spatially explicit land surface model calibration using field-scale satellite-based daily evapotranspiration product. <i>Journal of Hydrology</i> , 2021, 596, 125730.	2.3	14
843	Abiotic factors affect leaf litter mass loss more strongly than initial litter traits under sand burial conditions. <i>Catena</i> , 2021, 196, 104900.	2.2	10
844	Ecosystem service mapping in soybean agroecosystems. <i>Ecological Indicators</i> , 2021, 121, 107061.	2.6	6
845	Effects of irrigation management on arid soils enzyme activities. <i>Journal of Arid Environments</i> , 2021, 185, 104330.	1.2	11
846	Mineral Nutrition of Plants Under Soil Water Deficit Condition: A Review. , 2021, , 287-391.		1
847	Soil Bacterial and Fungal Richness and Network Exhibit Different Responses to Long-Term Throughfall Reduction in a Warm-Temperate Oak Forest. <i>Forests</i> , 2021, 12, 165.	0.9	7
848	The interactive effects of nitrogen addition and increased precipitation on gross ecosystem productivity in an alpine meadow. <i>Journal of Plant Ecology</i> , 2022, 15, 168-179.	1.2	7
849	Effect of Soil Water Deficit on Nitrogen Metabolism in Plants: A Review. , 2021, , 193-285.		0
850	Inorganic Nitrogen Production and Removal along the Sediment Gradient of a Stormwater Infiltration Basin. <i>Water (Switzerland)</i> , 2021, 13, 320.	1.2	4
851	Responses of soil moisture to rainfall pulses and land preparation techniques. , 2021, , 441-458.		0
852	Multiscale Legacy Responses of Soil Gas Concentrations to Soil Moisture and Temperature Fluctuations. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG005865.	1.3	5
853	Nitrous oxide emissions with enhanced efficiency and conventional urea fertilizers in winter wheat. <i>Nutrient Cycling in Agroecosystems</i> , 2021, 119, 307-322.	1.1	8
854	Species and geographic specificity between endophytic fungi and host supported by parasitic <i>Cynomorium songaricum</i> and its host <i>Nitraria tangutorum</i> distributed in desert. <i>Archives of Microbiology</i> , 2021, 203, 2511-2519.	1.0	2
855	Metagenomic Insight Into Patterns and Mechanism of Nitrogen Cycle During Biocrust Succession. <i>Frontiers in Microbiology</i> , 2021, 12, 633428.	1.5	14
856	Effects of precipitation change and nitrogen addition on the composition, diversity, and molecular ecological network of soil bacterial communities in a desert steppe. <i>PLoS ONE</i> , 2021, 16, e0248194.	1.1	26

#	ARTICLE	IF	CITATIONS
857	Timing and duration of precipitation pulses and interpulses influence seedling recruitment in the Great Basin. <i>Rangeland Ecology and Management</i> , 2021, 75, 112-118.	1.1	6
858	Drought effects on soil carbon and nitrogen dynamics in global natural ecosystems. <i>Earth-Science Reviews</i> , 2021, 214, 103501.	4.0	159
860	Fire changes the spatial pattern and dynamics of soil nitrogen (N) and $\delta^{15}N$ at a grassland-shrubland ecotone. <i>Journal of Arid Environments</i> , 2021, 186, 104422.	1.2	2
861	Frequency Versus Quantity: Phenotypic Response of Two Wheat Varieties to Water and Nitrogen Variability. <i>Journal of Soil Science and Plant Nutrition</i> , 2021, 21, 1631-1641.	1.7	1
862	The Responses to Long-Term Water Addition of Soil Bacterial, Archaeal, and Fungal Communities in a Desert Ecosystem. <i>Microorganisms</i> , 2021, 9, 981.	1.6	6
863	Influence of no-tillage and precipitation pulse on continuous soil respiration of summer maize affected by soil water in the North China Plain. <i>Science of the Total Environment</i> , 2021, 766, 144384.	3.9	25
864	Flood Pulse Irrigation of Meadows Shapes Soil Chemical and Microbial Parameters More Than Mineral Fertilization. <i>Soil Systems</i> , 2021, 5, 24.	1.0	6
865	Chironomid-based temperature and environmental reconstructions of the Last Glacial Termination in southern Bohemia, Czech Republic. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2021, 567, 110239.	1.0	4
866	Pulse Effect of Precipitation: Spatial Patterns and Mechanisms of Soil Carbon Emissions. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	1.1	10
867	Incorporating Biogeochemistry into Dryland Restoration. <i>BioScience</i> , 2021, 71, 907-917.	2.2	8
869	Age-related water use characteristics of <i>Robinia pseudoacacia</i> on the Loess Plateau. <i>Agricultural and Forest Meteorology</i> , 2021, 301-302, 108344.	1.9	15
870	Rewetting Intensity Influences Soil Respiration and Nitrogen Availability. <i>Journal of Soil Science and Plant Nutrition</i> , 2021, 21, 2137-2144.	1.7	4
871	Climate change risks pushing one-third of global food production outside the safe climatic space. <i>One Earth</i> , 2021, 4, 720-729.	3.6	45
872	Biogeography of global drylands. <i>New Phytologist</i> , 2021, 231, 540-558.	3.5	145
873	Differences in Precipitation Regime Shape Microbial Community Composition and Functional Potential in Namib Desert Soils. <i>Microbial Ecology</i> , 2022, 83, 689-701.	1.4	18
874	Plant community composition alters moisture and temperature sensitivity of soil respiration in semi-arid shrubland. <i>Oecologia</i> , 2021, 197, 1003-1015.	0.9	7
875	Interactions of Microtopography, Slope and Infiltration Cause Complex Rainfallâ€œRunoff Behavior at the Hillslope Scale for Single Rainfall Events. <i>Water Resources Research</i> , 2021, 57, e2020WR028127.	1.7	14
876	Anthropogenic erosion-induced small-scale soil heterogeneity in South African rangelands. <i>Anthropocene</i> , 2021, 34, 100290.	1.6	2

#	ARTICLE	IF	CITATIONS
877	Precipitation and nitrogen application stimulate soil nitrous oxide emission. <i>Nutrient Cycling in Agroecosystems</i> , 2021, 120, 363-378.	1.1	10
878	Assessing Lignin Decomposition and Soil Organic Carbon Contents Across a Tropical Savannah-Rainforest Boundary in Guyana. <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	1.0	4
879	Effects of pulse precipitation on soil organic matter mineralization in forests: spatial variation and controlling factors. <i>Journal of Plant Ecology</i> , 2021, 14, 970-980.	1.2	5
880	Diverse soil respiration responses to extreme precipitation patterns in arid and semiarid ecosystems. <i>Applied Soil Ecology</i> , 2021, 163, 103928.	2.1	11
881	Impacts of land use conversion on the response of soil respiration to precipitation in drylands: A case study with four-yearlong observations. <i>Agricultural and Forest Meteorology</i> , 2021, 304-305, 108426.	1.9	5
882	Rainfall-associated chronic N deposition induces higher soil N ₂ O emissions than acute N inputs in a semi-arid grassland. <i>Agricultural and Forest Meteorology</i> , 2021, 304-305, 108434.	1.9	3
883	Citizen science reveals unexpected solute patterns in semiarid river networks. <i>PLoS ONE</i> , 2021, 16, e0255411.	1.1	3
884	Influence of agricultural managed aquifer recharge on nitrate transport: The role of soil texture and flooding frequency. <i>Vadose Zone Journal</i> , 2021, 20, e20150.	1.3	15
885	Plant carbon investment in fine roots and arbuscular mycorrhizal fungi: A cross-biome study on nutrient acquisition strategies. <i>Science of the Total Environment</i> , 2021, 781, 146748.	3.9	19
886	Plant Species and Defoliation Effects on Soil Nitrogen Mineralization in a Semiarid Rangeland of Argentina. <i>Journal of Soil Science and Plant Nutrition</i> , 2021, 21, 2511-2517.	1.7	1
887	Effects of buffelgrass removal and nitrogen addition on soil microbial communities during an extreme drought in the Sonoran Desert. <i>Restoration Ecology</i> , 2022, 30, e13570.	1.4	5
888	Divergent effects of biological soil crusts on soil respiration between bare patches and shrub patches under simulated rainfall in a desert ecosystem in Northwest China. <i>Soil and Tillage Research</i> , 2021, 214, 105185.	2.6	5
889	Effect of increasing nitrogen fertilization on soil nitrous oxide emissions and nitrate leaching in a young date palm (<i>Phoenix dactylifera</i> L., cv. Medjool) orchard. <i>Agriculture, Ecosystems and Environment</i> , 2021, 319, 107569.	2.5	12
890	Bivariate empirical mode decomposition of the spatial variation in the soil organic matter content: A case study from NW China. <i>Catena</i> , 2021, 206, 105572.	2.2	21
891	Small precipitation events enhance the Eurasian grassland carbon sink. <i>Ecological Indicators</i> , 2021, 131, 108242.	2.6	6
892	Din ³ citizen science: Phytoremediation of uranium and arsenic in the Navajo Nation. <i>Science of the Total Environment</i> , 2021, 794, 148665.	3.9	7
893	Free-living diazotrophs differ among soil microhabitats, soil depth, and seasonality in a tropical dryland of central Mexico. <i>Journal of Arid Environments</i> , 2021, 195, 104628.	1.2	1
894	Dynamics of organic matter molecular composition under aerobic decomposition and their response to the nitrogen addition in grassland soils. <i>Science of the Total Environment</i> , 2022, 806, 150514.	3.9	9

#	ARTICLE	IF	CITATIONS
895	Microbial communities are associated with indicators of soil surface condition across a continental gradient. <i>Geoderma</i> , 2022, 405, 115439.	2.3	9
896	Seasonal effects of altered precipitation regimes on ecosystem-level CO ₂ fluxes and their drivers in a grassland from Eastern Australia. <i>Plant and Soil</i> , 2021, 460, 435-451.	1.8	9
897	Ecohydrology of Arid and Semiarid Ecosystems: An Introduction. , 2019, , 1-27.		3
898	Ecohydrological and Stoichiometric Controls on Soil Carbon and Nitrogen Dynamics in Drylands. , 2019, , 279-307.		1
899	Ecohydrology: Processes and Implications for Rangelands. Springer Series on Environmental Management, 2017, , 85-129.	0.3	17
900	Soil and Belowground Processes. Springer Series on Environmental Management, 2017, , 131-168.	0.3	6
902	Modelling Soil Carbon and Nitrogen Cycles During Land Use Change. , 2011, , 499-527.		5
903	Water Deficit and Nitrogen Nutrition of Crops. , 2011, , 557-575.		7
904	Influence of Changing Patterns of Precipitation and Temperature on Tropical Soil Ecosystem. , 2019, , 11-26.		3
905	Precipitation and Conifer Response in Semiarid Mountains. <i>Developments in Earth Surface Processes</i> , 2016, 21, 193-238.	2.8	6
906	A review of soil carbon dynamics resulting from agricultural practices. <i>Journal of Environmental Management</i> , 2020, 268, 110319.	3.8	87
907	Water and nitrogen availability co-control ecosystem CO ₂ exchange in a semiarid temperate steppe. <i>Scientific Reports</i> , 2015, 5, 15549.	1.6	18
908	Dispersal limitation and thermodynamic constraints govern spatial structure of permafrost microbial communities. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	1.3	62
910	Contrasting relationships between precipitation and species richness in space and time. , 2007, 116, 221.		7
911	Seasonality and moisture regime control soil respiration, enzyme activities, and soil microbial biomass carbon in a semi-arid forest of Delhi, India. <i>Ecological Processes</i> , 2020, 9, .	1.6	18
912	High Bacterial Diversity of Biological Soil Crusts in Water Tracks over Permafrost in the High Arctic Polar Desert. <i>PLoS ONE</i> , 2013, 8, e71489.	1.1	52
913	Prairie Dog Decline Reduces the Supply of Ecosystem Services and Leads to Desertification of Semiarid Grasslands. <i>PLoS ONE</i> , 2013, 8, e75229.	1.1	51
914	Effects of Increased Summer Precipitation and Nitrogen Addition on Root Decomposition in a Temperate Desert. <i>PLoS ONE</i> , 2015, 10, e0142380.	1.1	10

#	ARTICLE	IF	CITATIONS
915	Short-Term Effects of Changing Precipitation Patterns on Shrub-Steppe Grasslands: Seasonal Watering Is More Important than Frequency of Watering Events. <i>PLoS ONE</i> , 2016, 11, e0168663.	1.1	14
916	Diversity of endophytic fungal community associated to the roots of <i>Argania spinosa</i> (L.) Skeels growing in the arid and semi-arid regions of Algeria. <i>Acta Agriculturae Slovenica</i> , 2019, 114, 103.	0.2	3
917	CHANGES IN C : N : Ð RATIOS IN PLANT BIOMASS, SOIL AND SOIL MICROBIAL BIOMASS DUE TO THE WARMING AND DESSICATION EFFECT OF FLARING. <i>Dokuchaev Soil Bulletin</i> , 2018, , 71-89.	0.1	2
918	Rainfall variability in ecosystem CO2 flux studies. <i>Climate Research</i> , 2011, 46, 77-83.	0.4	6
919	Estimating Surface Water Presence and Infiltration in Ephemeral to Intermittent Streams in the Southwestern US. <i>Frontiers in Water</i> , 2020, 2, .	1.0	7
920	Spatial Distribution of Roots across Three Dryland Ecosystems and Plant Functional Types. <i>Western North American Naturalist</i> , 2019, 79, 159.	0.2	1
921	Isopod distribution and climate change. <i>ZooKeys</i> , 2018, 801, 25-61.	0.5	20
922	PRAIRIE-BASED GREEN ROOFS: LITERATURE, TEMPLATES, AND ANALOGS. <i>Journal of Green Building</i> , 2012, 7, 143-172.	0.4	58
923	Is the nitrification a redundant process in arid regions?: activity, abundance and diversity of nitrifier microorganisms. <i>Revista Chilena De Historia Natural</i> , 2013, 86, 325-336.	0.5	3
924	The Effects of Forest Thinning Practices and Altered Nutrient Supply on Soil Trace Gas Fluxes in Colorado. <i>Open Journal of Forestry</i> , 2014, 04, 278-289.	0.1	3
935	The response of soil microbial communities to variation in annual precipitation depends on soil nutritional status in an oligotrophic desert. <i>PeerJ</i> , 2017, 5, e4007.	0.9	10
936	Direct and legacy effects of plant-traits control litter decomposition in a deciduous oak forest in Mexico. <i>PeerJ</i> , 2018, 6, e5095.	0.9	13
937	Grazing enclosures solely are not the best methods for sustaining alpine grasslands. <i>PeerJ</i> , 2019, 7, e6462.	0.9	10
938	Interannual climate variability mediates changes in carbon and nitrogen pools caused by annual grass invasion in a semiarid shrubland. <i>Global Change Biology</i> , 2022, 28, 267-284.	4.2	10
939	Nitrogen addition, rather than altered precipitation, stimulates nitrous oxide emissions in an alpine steppe. <i>Ecology and Evolution</i> , 2021, 11, 15153-15163.	0.8	10
940	Effect of tree species and seasons on soil nitrogen transformation rates in the semi-arid forest of Delhi, India. <i>Vegetos</i> , 0, , 1.	0.8	0
941	Laboratory incubations reveal potential responses of soil nitrogen cycling to changes in soil C and N availability in Mojave Desert soils exposed to elevated atmospheric CO2. <i>Global Change Biology</i> , 2007, .	4.2	0
942	The response of ecosystem CO2 exchange to small precipitation pulses over a temperate steppe. , 2010, , 155-167.		0

#	ARTICLE	IF	CITATIONS
945	The influence of abiotic factors on litter deposition in a semiarid area, northeastern Brazil. <i>Revista Do Instituto Florestal</i> , 2014, 26, 203-213.	0.1	1
947	<i>Terrestrial Microbial Diversity.</i> , 2016, , 37-56.		0
948	<i>Chihuahuan Desert.</i> , 2017, , 449-465.		0
949	<i>Mojave Desert.</i> , 2017, , 425-448.		0
952	Comparative Study of the Nutritional Content of White Button Mushroom [<i>Agaricus bisporus</i> (Lange) Imbach] after Application of <i>Pseudomonas putida</i> . <i>International Journal of Current Microbiology and Applied Sciences</i> , 2018, 7, 2210-2215.	0.0	1
954	<i>Carbon Footprint in Eroded Soils and Its Impact on Soil Health.</i> , 2020, , 1-30.		2
955	Chronic and intense droughts differentially influence grassland carbon-nutrient dynamics along a natural aridity gradient. <i>Plant and Soil</i> , 2022, 473, 137-148.	1.8	10
957	Precipitation Controls on Soil Biogeochemical and Microbial Community Composition in Rainfed Agricultural Systems in Tropical Drylands. <i>Sustainability</i> , 2021, 13, 11848.	1.6	0
959	Monsoon-phase regulates the decoupling of auto- and heterotrophic respiration by mediating soil nutrient availability and root biomass in tropical grassland. <i>Catena</i> , 2022, 209, 105808.	2.2	2
960	Seasonal variation and potential roles of dark septate fungi in an arid grassland. <i>Mycologia</i> , 2021, 113, 1-18.	0.8	6
961	Effect of Long-Term Experimental Warming on the Nutritional Quality of Alpine Meadows in the Northern Tibet. <i>Journal of Resources and Ecology</i> , 2020, 11, 516.	0.2	1
962	Study on the Plant Diversity Under the Economic Fruit Forest in the Red Soil Erosion Area. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 571, 012070.	0.2	0
963	Endemic <i>Mimosa</i> species, forming resource islands or not, and rainfall seasonality jointly influence arbuscular mycorrhizal fungi communities in a semiarid ecosystem of Mexico. <i>Trees - Structure and Function</i> , 0, , 1.	0.9	2
964	Precipitation Changes in Semi-arid Regions in East Asia Under Global Warming. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	3
965	Quinoa (<i>Chenopodium quinoa</i> Wild.) Seed Yield and Efficiency in Soils Deficient of Nitrogen in the Bolivian Altiplano: An Analytical Review. <i>Plants</i> , 2021, 10, 2479.	1.6	6
966	Dinámica del agua en el suelo bajo un ensayo manipulativo de lluvias. <i>Informes Científicos Y Técnicos (Universidad Nacional De La Patagonia Austral)</i> , 2021, 13, 77-91.	0.1	0
967	Optimizing Irrigation Requirement of Soil Test-Based Fertilizer Recommendation Models for Targeted Yields of Cabbage and Broccoli in a Typic Fluvaquept Soil. <i>Lecture Notes in Civil Engineering</i> , 2022, , 729-747.	0.3	0
968	Improved dryland carbon flux predictions with explicit consideration of water-carbon coupling. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	16

#	ARTICLE	IF	CITATIONS
969	A Microbialâ€Explicit Soil Organic Carbon Decomposition Model (MESDM): Development and Testing at a Semiarid Grassland Site. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, e2021MS002485.	1.3	7
970	Functional responses of biological soil crusts to simulated small precipitation pulses in the Monte desert, Argentina. <i>Geoderma</i> , 2022, 410, 115660.	2.3	9
971	Plant Production in Semiarid Shrubland Communities Amended with Biosolids in Central Mexico. <i>Rangeland Ecology and Management</i> , 2022, 81, 34-43.	1.1	0
972	Inorganic Nitrogen diffusion in undisturbed volcanic soils during continuous dryingâ€rewetting cycles. <i>Journal of Plant Nutrition and Soil Science</i> , 2020, 183, 648-658.	1.1	1
973	Fourteen years of continuous soil moisture records from plant and biocrust-dominated microsites. <i>Scientific Data</i> , 2022, 9, 14.	2.4	1
974	Insensitivity of Ecosystem Productivity to Predicted Changes in Fineâ€Scale Rainfall Variability. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	6
975	Structure and function of soil microbial communities in fertile islands in austral drylands. <i>Austral Ecology</i> , 2022, 47, 663-673.	0.7	3
976	Delayed wet season increases soil net N mineralization in a seasonally dry tropical forest. <i>Science of the Total Environment</i> , 2022, 823, 153314.	3.9	7
978	Decreasing rainfall frequency contributes to earlier leaf onset in northern ecosystems. <i>Nature Climate Change</i> , 2022, 12, 386-392.	8.1	24
979	Nitrogen Gain and Loss Along an Ecosystem Sequence: From Semi-desert to Rainforest. <i>Frontiers in Soil Science</i> , 2022, 2, .	0.8	1
980	Direct and legacyâ€mediated drought effects on plant performance are speciesâ€specific and depend on soil community composition. <i>Oikos</i> , 2022, 2022, .	1.2	8
981	Sensitivity of soil hydrogen uptake to natural and managed moisture dynamics in a semiarid urban ecosystem. <i>PeerJ</i> , 2022, 10, e12966.	0.9	1
982	Partners to survive: <i>Hoffmannseggia doellii</i> rootâ€associated microbiome at the Atacama Desert. <i>New Phytologist</i> , 2022, 234, 2126-2139.	3.5	10
983	Multiple resource limitation of dryland soil microbial carbon cycling on the Colorado Plateau. <i>Ecology</i> , 2022, 103, e3671.	1.5	10
984	Interactive effects of nitrogen and water addition on soil microbial resource limitation in a temperate desert shrubland. <i>Plant and Soil</i> , 2022, 475, 361-378.	1.8	10
985	Non-Toxic Increases in Nitrogen Availability Can Improve the Ability of the Soil Lichen <i>Cladonia rangiferina</i> to Cope with Environmental Changes. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 333.	1.5	2
986	Mulch more so than compost improves soil health to reestablish vegetation in a semiarid rangeland. <i>Restoration Ecology</i> , 0, , .	1.4	4
987	Differences in the short-term responses of soil nitrogen and microbial dynamics to soil moisture variation in two adjacent dryland forests. <i>European Journal of Soil Biology</i> , 2022, 110, 103394.	1.4	2

#	ARTICLE	IF	CITATIONS
988	Effects of temporal heterogeneity in nutrient supply on intra- and inter-genet competition of a clonal herb. <i>Global Ecology and Conservation</i> , 2022, 35, e02076.	1.0	5
989	The potential of groundwater-dependent ecosystems to enhance soil biological activity and soil fertility in drylands. <i>Science of the Total Environment</i> , 2022, 826, 154111.	3.9	5
990	Precipitation temporal repackaging into fewer, larger storms delayed seasonal timing of peak photosynthesis in a semi-arid grassland. <i>Functional Ecology</i> , 2022, 36, 646-658.	1.7	6
991	Variability of ecosystem carbon source from microbial respiration is controlled by rainfall dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	13
993	Plant community effects on soil moisture and nitrogen cycling in a semi-arid ecosystem. <i>Biogeochemistry</i> , 2022, 159, 215-232.	1.7	5
994	Using ion-exchange resins to monitor nitrate fluxes in remote semiarid stream beds. <i>Environmental Monitoring and Assessment</i> , 2022, 194, 376.	1.3	1
995	Impact of Growing Season Precipitation Regime on the Performance of Masson Pine Saplings. <i>Forests</i> , 2022, 13, 627.	0.9	2
1005	Expanding the Pulse-Reserve Paradigm to Microorganisms on the Basis of Differential Reserve Management Strategies. <i>BioScience</i> , 2022, 72, 638-650.	2.2	3
1007	Soil nitrogen supply and N fertilizer losses from Australian dryland grain cropping systems. <i>Advances in Agronomy</i> , 2022, , 1-52.	2.4	4
1008	Biogeochemical and ecosystem properties in three adjacent semi-arid grasslands are resistant to nitrogen deposition but sensitive to edaphic variability. <i>Journal of Ecology</i> , 2022, 110, 1615-1631.	1.9	13
1009	Seasonal dynamics of ammonia-oxidizing bacteria but not archaea influence soil nitrogen cycling in a semi-arid agricultural soil. <i>Scientific Reports</i> , 2022, 12, 7299.	1.6	1
1010	Responses of Biocrust and Associated Soil Bacteria to Novel Climates Are Not Tightly Coupled. <i>Frontiers in Microbiology</i> , 2022, 13, 821860.	1.5	3
1011	Belowground responses to altered precipitation regimes in two semi-arid grasslands. <i>Soil Biology and Biochemistry</i> , 2022, 171, 108725.	4.2	18
1012	Increased precipitation attenuates shrub encroachment by facilitating herbaceous growth in a Mongolian grassland. <i>Functional Ecology</i> , 0, , .	1.7	2
1013	Soil respiration and N-mineralization processes in the Patagonian steppe are more responsive to fertilization than to experimental precipitation increase. <i>Plant and Soil</i> , 2022, 479, 405-422.	1.8	5
1014	Carbon cycle in the microbial ecosystems of biological soil crusts. <i>Soil Biology and Biochemistry</i> , 2022, 171, 108729.	4.2	20
1015	Environmental Factors Rather than Productivity Drive Autumn Leaf Senescence: Evidence from a Grassland in Situ Simulation Experiment. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1016	Dormant Season Vegetation Phenology and Eddy Fluxes in Native Tallgrass Prairies of the U.S. Southern Plains. <i>Remote Sensing</i> , 2022, 14, 2620.	1.8	3

#	ARTICLE	IF	CITATIONS
1017	The consequences of climate change for dryland biogeochemistry. <i>New Phytologist</i> , 2022, 236, 15-20.	3.5	12
1018	Soil Moisture Affects the Rapid Response of Microbes to Labile Organic C Addition. <i>Frontiers in Ecology and Evolution</i> , 0, 10, .	1.1	8
1019	Plant Diversity and Fungal Richness Regulate the Changes in Soil Multifunctionality in a Semi-Arid Grassland. <i>Biology</i> , 2022, 11, 870.	1.3	9
1020	Temporal Effects of Monsoon Rainfall Pulses on Plant Available Nitrogen in a Chihuahuan Desert Grassland. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	10
1021	Predicting nitrate leaching loss in temperate rainfed cereal crops: relative importance of management and environmental drivers. <i>Environmental Research Letters</i> , 2022, 17, 064043.	2.2	7
1022	Soil nitrogen dynamics in fallow periods in a rainfed semiarid Mediterranean system. <i>Pedosphere</i> , 2022, , .	2.1	4
1023	A Drying-Rewetting Cycle Imposes More Important Shifts on Soil Microbial Communities than Does Reduced Precipitation. <i>MSystems</i> , 2022, 7, .	1.7	12
1024	Antecedent water condition determines carbon exchange response to extreme precipitation events across global drylands. <i>Theoretical and Applied Climatology</i> , 0, , .	1.3	0
1025	Summer sunlight impacts carbon turnover in a spatially heterogeneous Patagonian woodland. <i>Plant and Soil</i> , 0, , .	1.8	0
1026	Impacts of plant and soil stoichiometry on species diversity in a desert ecosystem. <i>AoB PLANTS</i> , 2022, 14, .	1.2	1
1027	A new alternative to chemical fertilizers for arid soils, the cuticle of locust insects. <i>Vegetos</i> , 0, , .	0.8	0
1028	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
1029	The Response of Soil Microbial Communities to Hydration and Desiccation Cycles in Hot Desert Ecosystems. <i>Ecological Studies</i> , 2022, , 319-339.	0.4	2
1030	C, N, and P Nutrient Cycling in Drylands. <i>Ecological Studies</i> , 2022, , 161-203.	0.4	0
1031	Interactive effects of ^{UV} radiation and water deficit on production characteristics in upland grassland and their estimation by proximity sensing. <i>Ecology and Evolution</i> , 2022, 12, .	0.8	1
1032	Global Climate Change Effects on Soil Microbial Biomass Stoichiometry in Alpine Ecosystems. <i>Land</i> , 2022, 11, 1661.	1.2	2
1033	Seasonal precipitation and soil microbial community influence plant growth response to warming and N addition in a desert steppe. <i>Plant and Soil</i> , 2023, 482, 245-259.	1.8	10
1034	Soil Respiration Is Influenced by Seasonality, Forest Succession and Contrasting Biophysical Controls in a Tropical Dry Forest in Northwestern Mexico. <i>Soil Systems</i> , 2022, 6, 75.	1.0	5

#	ARTICLE	IF	CITATIONS
1035	Response of soil carbon dioxide efflux to temporal repackaging of rainfall into fewer, larger events in a semiarid grassland. <i>Frontiers in Environmental Science</i> , 0, 10, .	1.5	5
1036	From permafrost soil to thermokarst lake sediment: A view from C:N:P stoichiometry. <i>Frontiers in Environmental Science</i> , 0, 10, .	1.5	4
1037	The responses to long-term nitrogen addition of soil bacterial, fungal, and archaeal communities in a desert ecosystem. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	3
1038	Environmental micro-niche filtering shapes bacterial pioneer communities during primary colonization of a Himalayas' glacier forefield. <i>Environmental Microbiology</i> , 2022, 24, 5998-6016.	1.8	5
1039	Environmental factors rather than productivity drive autumn leaf senescence: evidence from a grassland in situ simulation experiment. <i>Agricultural and Forest Meteorology</i> , 2022, 327, 109221.	1.9	4
1040	Seasonal controlling factors of CO ₂ exchange in a semiarid shrubland in the Chihuahuan Desert, Mexico. <i>Science of the Total Environment</i> , 2023, 858, 159918.	3.9	3
1041	Coupling of soil carbon and nitrogen dynamics in drylands under climate change. <i>Catena</i> , 2023, 221, 106735.	2.2	7
1042	Dryland productivity under a changing climate. <i>Nature Climate Change</i> , 2022, 12, 981-994.	8.1	49
1043	Learning from arid and urban aquatic ecosystems to inform more sustainable and resilient futures. <i>Journal of Hydrology</i> , 2023, 616, 128841.	2.3	1
1044	Positive feedbacks between savanna tree size and the nutritional characteristics of islands of fertility are amplified by sociable weaver colonies. <i>Journal of Arid Environments</i> , 2023, 209, 104903.	1.2	3
1045	Effects of altered precipitation patterns on soil nitrogen transformation in different landscape types during the growing season in northern China. <i>Catena</i> , 2023, 222, 106813.	2.2	1
1046	The size of topographic depressions in a Sahelian savanna is a driver of woody vegetation diversity. <i>Journal of Arid Environments</i> , 2023, 210, 104923.	1.2	2
1047	Factors controlling deep-profile soil organic carbon and water storage following Robinia pseudoacacia afforestation of the Loess Plateau in China. <i>Forest Ecosystems</i> , 2022, 9, 100079.	1.3	4
1048	An increase in livestock density increases forage nutritional value but decreases net primary production and annual forage nutritional yield in the alpine grassland of the Qinghai-Tibetan Plateau. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	0
1049	Precipitation legacies amplify ecosystem nitrogen losses from nitric oxide emissions in a Pinyon-Juniper dryland. <i>Ecology</i> , 2023, 104, .	1.5	3
1050	Habitats modulate influencing factors shaping the spatial distribution of bacterial communities along a Tibetan Plateau riverine wetland. <i>Science of the Total Environment</i> , 2023, 860, 160418.	3.9	1
1052	The Responses of Four Typical Annual Desert Species to Drought and Mixed Growth. <i>Forests</i> , 2022, 13, 2140.	0.9	0
1053	Water Availability and Land Management Control Catchment-Scale Agricultural Nitrogen and Phosphorous Use Efficiencies. <i>Global Biogeochemical Cycles</i> , 2023, 37, .	1.9	0

#	ARTICLE	IF	CITATIONS
1055	Soil nutrient dynamics under selected tree species explains the soil fertility and restoration potential in a semi-arid forest of the Aravalli Mountain range. , 2023, , 115-129.		0
1056	Memory or acclimation of water stress in pea rely on root system's plasticity and plant's ionome modulation. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	1
1057	Global Selfâ€Similar Scaling of Terrestrial Carbon With Aridity. <i>Geophysical Research Letters</i> , 2023, 50, .	1.5	2
1058	Functional significance of microbial diversity in arid soils: biological soil crusts and nitrogen fixation as a model system. <i>FEMS Microbiology Ecology</i> , 0, , .	1.3	0
1059	Photodegradation and Its Effect on Plant Litter Decomposition in Terrestrial Ecosystems: A Systematic Review. <i>Soil Systems</i> , 2023, 7, 6.	1.0	2
1060	Canopy greenness, atmospheric aridity, and large rain events jointly regulate evapotranspiration partitioning in a temperate semiarid shrubland. <i>Agricultural and Forest Meteorology</i> , 2023, 333, 109425.	1.9	7
1061	Ecosystem carbon and nitrogen gains following 27 years of grazing management in a semiarid alluvial valley. <i>Journal of Environmental Management</i> , 2023, 337, 117724.	3.8	6
1062	The vertical distribution and control factor of microbial biomass and bacterial community at macroecological scales. <i>Science of the Total Environment</i> , 2023, 869, 161754.	3.9	12
1063	The quality and quantity of SOM determines the mineralization of recently added labile C and priming of native SOM in grazed grasslands. <i>Geoderma</i> , 2023, 432, 116385.	2.3	3
1064	Water use patterns of dominant species of riparian wetlands in arid areas. <i>Hydrological Processes</i> , 2023, 37, .	1.1	1
1065	Different Responses of Growing Season Ecosystem CO2 Fluxes to Rain Addition in a Desert Ecosystem. <i>Plants</i> , 2023, 12, 1158.	1.6	1
1066	Effects of Regional Climate and BMP Type on Stormwater Nutrient Concentrations in BMPs: A Meta-Analysis. <i>Environmental Science & Technology</i> , 2023, 57, 5079-5088.	4.6	1
1067	Field inoculation by arbuscular mycorrhizal fungi with contrasting life-history strategies differently affects tomato nutrient uptake and residue decomposition dynamics. <i>Plant and Soil</i> , 0, , .	1.8	5
1091	Manipulation of Rangeland Wildlife Habitats. , 2023, , 107-146.		0