

# 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.	2.0	772
2	Precipitation pulses and carbon fluxes in semiarid and arid ecosystems. <i>Oecologia</i> , 2004, 141, 254-268.	2.0	942
3	Thresholds, memory, and seasonality: understanding pulse dynamics in arid/semi-arid ecosystems. <i>Oecologia</i> , 2004, 141, 191-193.	2.0	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.	4.0	623
5	Increased rainfall variability and reduced rainfall amount decreases soil CO <sub>2</sub> flux in a grassland ecosystem. <i>Global Change Biology</i> , 2005, 11, 322-334.	9.5	342
6	Diurnal, seasonal and annual variation in the net ecosystem CO <sub>2</sub> exchange of a desert shrub community ( <i>Sarcocaulis</i> ) in Baja California, Mexico. <i>Global Change Biology</i> , 2005, 11, 927-939.	9.5	148
7	Plant N capture from pulses: effects of pulse size, growth rate, and other soil resources. <i>Oecologia</i> , 2005, 145, 113-122.	2.0	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.	2.0	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.	3.5	72
10	Fate of Environmental Pollutants. <i>Water Environment Research</i> , 2005, 77, 2576-2658.	2.7	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.	4.8	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, .	4.2	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.	2.4	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.	2.4	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.	2.4	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.	7.3	159

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22	Plant nitrogen capture in pulse-driven systems: interactions between root responses and soil processes. <i>Journal of Ecology</i> , 2006, 94, 765-777.	4.0	48
23	Glomeraceae and Gigasporaceae differ in their ability to form hyphal networks. <i>New Phytologist</i> , 2006, 172, 185-188.	7.3	79
24	Ecosystem structure and soil-surface conditions drive the variability in the foliar $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ of <i>Stipa tenacissima</i> in semiarid Mediterranean steppes. <i>Ecological Research</i> , 2006, 21, 44-53.	1.5	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.	3.5	63
26	Differential Controls of Water Input on Litter Decomposition and Nitrogen Dynamics in the Patagonian Steppe. <i>Ecosystems</i> , 2006, 9, 128-141.	3.4	137
27	Rainfall and labile carbon availability control litter nitrogen dynamics in a tropical dry forest. <i>Oecologia</i> , 2006, 150, 602-610.	2.0	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.	2.6	184
30	Response of Water Vapor and CO <sub>2</sub> Fluxes in Semiarid Lands to Seasonal and Intermittent Precipitation Pulses. <i>Journal of Hydrometeorology</i> , 2006, 7, 995-1010.	1.9	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.	2.9	48
32	Stochastic Dynamics of Plant-Water Interactions. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2007, 38, 767-791.	8.3	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.	3.1	415
34	AMOUNT OR PATTERN? GRASSLAND RESPONSES TO THE HETEROGENEITY AND AVAILABILITY OF TWO KEY RESOURCES. <i>Ecology</i> , 2007, 88, 501-511.	3.2	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.	1.1	16
36	POSTFIRE RESPONSE OF FLOOD-REGENERATING RIPARIAN VEGETATION IN A SEMI-ARID LANDSCAPE. <i>Ecology</i> , 2007, 88, 2094-2104.	3.2	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.	2.4	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.	2.4	54
39	Biogeochemistry of Kalahari sands. <i>Journal of Arid Environments</i> , 2007, 71, 259-279.	2.4	89

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40	WHAT MAKES GREAT BASIN SAGEBRUSH ECOSYSTEMS INVASIBLE BY <i>BROMUS TECTORUM</i> ?. Ecological Monographs, 2007, 77, 117-145.	5.4	495
41	Rainfall limit of the N cycle on Earth. Global Biogeochemical Cycles, 2007, 21, .	4.9	64
42	Controls on the Spatial Dimensions of Wetted Hydrologic Margins of Two Antarctic Lakes. Vadose Zone Journal, 2007, 6, 841-848.	2.2	21
43	Climate Variability Controls on Unsaturated Water and Chemical Movement, High Plains Aquifer, USA. Vadose Zone Journal, 2007, 6, 533-547.	2.2	136
44	Nutrient resorption and patterns of litter production and decomposition in a Neotropical Savanna. Functional Ecology, 2007, 21, 1034-1043.	3.6	142
45	Contrasting relationships between precipitation and species richness in space and time. Oikos, 2007, 116, 221-232.	2.7	183
46	Precipitation pulses and soil CO <sub>2</sub> flux in a Sonoran Desert ecosystem. Global Change Biology, 2007, 13, 426-436.	9.5	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 <sub>2</sub> . Global Change Biology, 2007, 13, 854-865.	9.5	26
48	Soil NO emissions modelling using artificial neural network. Tellus, Series B: Chemical and Physical Meteorology, 2007, 59, 502-513.	1.6	44
49	Three distinct clades of cultured heterocystous cyanobacteria constitute the dominant N <sub>2</sub> -fixing members of biological soil crusts of the Colorado Plateau, USA. FEMS Microbiology Ecology, 2007, 60, 85-97.	2.7	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.	8.8	56
51	Soil phosphorus release from a restoration wetland, Upper Klamath Lake, Oregon. Wetlands, 2007, 27, 1025-1035.	1.5	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.	3.5	16
53	Effects of an increase in summer precipitation on leaf, soil, and ecosystem fluxes of CO <sub>2</sub> and H <sub>2</sub> O in a sotol grassland in Big Bend National Park, Texas. Oecologia, 2007, 151, 704-718.	2.0	80
54	Influence of temporal heterogeneity in nitrogen supply on competitive interactions in a desert shrub community. Oecologia, 2007, 152, 721-727.	2.0	22
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56	Fire in the Riparian Zone: Characteristics and Ecological Consequences. Ecosystems, 2007, 10, 673-687.	3.4	197
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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.	3.6	1
61	A stochastic model for daily subsurface CO <sub>2</sub> concentration and related soil respiration. <i>Advances in Water Resources</i> , 2008, 31, 987-994.	3.8	56
62	Fungal control of nitrous oxide production in semiarid grassland. <i>Biogeochemistry</i> , 2008, 87, 17-27.	3.5	130
63	Responses of soil microorganisms to resource availability in urban, desert soils. <i>Biogeochemistry</i> , 2008, 87, 143-155.	3.5	44
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65	Forest-scale sap flux responses to rainfall in a dryland eucalyptus plantation. <i>Plant and Soil</i> , 2008, 305, 131-144.	3.7	15
66	Responses of Benthic Bacteria to Experimental Drying in Sediments from Mediterranean Temporary Rivers. <i>Microbial Ecology</i> , 2008, 55, 270-279.	2.8	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.	2.8	159
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69	Effects of Urbanization-Induced Environmental Changes on Ecosystem Functioning in the Phoenix Metropolitan Region, USA. <i>Ecosystems</i> , 2008, 11, 138-155.	3.4	77
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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
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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.	9.5	21
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77	Persistent effects of a discrete warming event on a polar desert ecosystem. <i>Global Change Biology</i> , 2008, 14, 2249-2261.	9.5	119
78	Pulse dynamics and microbial processes in aridland ecosystems. <i>Journal of Ecology</i> , 2008, 96, 413-420.	4.0	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.	4.0	134
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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
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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
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86	Probabilistic dynamics of soil nitrate: Coupling of ecohydrological and biogeochemical processes. <i>Water Resources Research</i> , 2008, 44, .	4.2	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.	2.4	25
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97	THE INFLUENCE OF DRAINAGE NETWORKS ON PATTERNS OF SOIL RESPIRATION IN A DESERT CATCHMENT. <i>Ecology</i> , 2008, 89, 1089-1100.	3.2	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.	0.6	24
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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.	3.4	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.	2.0	89
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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.	1.6	80
114	Spatial and temporal litterfall heterogeneity generated by woody species in the Central Monte desert. <i>Plant Ecology</i> , 2009, 205, 295-303.	1.6	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.	4.3	11
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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.	9.5	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.	9.5	190
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122	Global trends in senesced leaf nitrogen and phosphorus. <i>Global Ecology and Biogeography</i> , 2009, 18, 532-542.	5.8	220
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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.	7.3	28
125	Interactions Between Biogeochemistry and Hydrologic Systems. <i>Annual Review of Environment and Resources</i> , 2009, 34, 65-96.	13.4	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.	3.2	33
128	Dynamics of dissolved iron under pedohydrological regime caused by pulsed rainfall events in wetland soils. <i>Geoderma</i> , 2009, 150, 46-53.	5.1	23
129	Nitrogen mineralization across an atmospheric nitrogen deposition gradient in Southern California deserts. <i>Journal of Arid Environments</i> , 2009, 73, 920-930.	2.4	36



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145	Forestry insularity effect of four <i>Mimosa</i> L. species (Leguminosae-Mimosoideae) on soil nutrients of a Mexican semiarid ecosystem. <i>Agroforestry Systems</i> , 2010, 80, 385-397.	2.0	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.	2.0	61
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