

Russell L Scott

List of Publications by Year in descending order

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168
papers

13,115
citations

18436

62
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26548

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181
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181
docs citations

181
times ranked

11027
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	A micrometeorological flux perspective on brush management in a shrub-encroached Sonoran Desert grassland. <i>Agricultural and Forest Meteorology</i> , 2022, 313, 108763.	1.9	3
3	Satellite solar-induced chlorophyll fluorescence and near-infrared reflectance capture complementary aspects of dryland vegetation productivity dynamics. <i>Remote Sensing of Environment</i> , 2022, 270, 112858.	4.6	26
4	Canopy Temperature Is Regulated by Ecosystem Structural Traits and Captures the Ecohydrologic Dynamics of a Semiarid Mixed Conifer Forest Site. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	10
5	Confronting the water potential information gap. <i>Nature Geoscience</i> , 2022, 15, 158-164.	5.4	47
6	Streamflow Response to Wildfire Differs With Season and Elevation in Adjacent Headwaters of the Lower Colorado River Basin. <i>Water Resources Research</i> , 2022, 58, .	1.7	10
7	Exceptional heat and atmospheric dryness amplified losses of primary production during the 2020 U.S. Southwest hot drought. <i>Global Change Biology</i> , 2022, 28, 4794-4806.	4.2	46
8	Disentangling the Relative Drivers of Seasonal Evapotranspiration Across a Continentalâ€Scale Aridity Gradient. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	4
9	Water Availability Impacts on Evapotranspiration Partitioning. <i>Agricultural and Forest Meteorology</i> , 2021, 297, 108251.	1.9	39
10	Hydraulic redistribution buffers climate variability and regulates grassâ€tree interactions in a semiarid riparian savanna. <i>Ecohydrology</i> , 2021, 14, e2271.	1.1	7
11	Longâ€term research catchments to investigate shrub encroachment in the Sonoran and Chihuahuan deserts: Santa Rita and Jornada experimental ranges. <i>Hydrological Processes</i> , 2021, 35, e14031.	1.1	10
12	Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. <i>Agricultural and Forest Meteorology</i> , 2021, 301-302, 108350.	1.9	125
13	Convergent Hydraulic Redistribution and Groundwater Access Supported Facilitative Dependency Between Trees and Grasses in a Semiâ€Arid Environment. <i>Water Resources Research</i> , 2021, 57, e2020WR028103.	1.7	9
14	Dynamic global vegetation models underestimate net CO ₂ flux mean and inter-annual variability in dryland ecosystems. <i>Environmental Research Letters</i> , 2021, 16, 094023.	2.2	23
15	Integrating continuous atmospheric boundary layer and tower-based flux measurements to advance understanding of land-atmosphere interactions. <i>Agricultural and Forest Meteorology</i> , 2021, 307, 108509.	1.9	31
16	The three major axes of terrestrial ecosystem function. <i>Nature</i> , 2021, 598, 468-472.	18.7	99
17	The USDAâ€Agricultural Research Service's long term agroâ€ecosystems Walnut Gulch Experimental Watershed, Arizona, USA. <i>Hydrological Processes</i> , 2021, 35, e14349.	1.1	1
18	Seasonality in aerodynamic resistance across a range of North American ecosystems. <i>Agricultural and Forest Meteorology</i> , 2021, 310, 108613.	1.9	14

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19	Monitoring agroecosystem productivity and phenology at a national scale: A metric assessment framework. <i>Ecological Indicators</i> , 2021, 131, 108147.	2.6	16
20	Optimizing Carbon Cycle Parameters Drastically Improves Terrestrial Biosphere Model Underestimates of Dryland Mean Net CO ₂ Flux and its Inter-Annual Variability. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, .	1.3	8
21	Improved dryland carbon flux predictions with explicit consideration of water-carbon coupling. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	16
22	Site Characteristics Mediate the Relationship Between Forest Productivity and Satellite Measured Solar Induced Fluorescence. <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	1.0	4
23	Ecosystem carbon and water cycling from a sky island montane forest. <i>Agricultural and Forest Meteorology</i> , 2020, 281, 107835.	1.9	17
24	Ecosystem transpiration and evaporation: Insights from three water flux partitioning methods across FLUXNET sites. <i>Global Change Biology</i> , 2020, 26, 6916-6930.	4.2	97
25	COSORE: A community database for continuous soil respiration and other soil-atmosphere greenhouse gas flux data. <i>Global Change Biology</i> , 2020, 26, 7268-7283.	4.2	50
26	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020, 7, 225.	2.4	646
27	Synergistic use of SMAP and OCO-2 data in assessing the responses of ecosystem productivity to the 2018 U.S. drought. <i>Remote Sensing of Environment</i> , 2020, 251, 112062.	4.6	34
28	Montane forest productivity across a semiarid climatic gradient. <i>Global Change Biology</i> , 2020, 26, 6945-6958.	4.2	22
29	High Vapor Pressure Deficit Decreases the Productivity and Water Use Efficiency of Rain-Induced Pulses in Semiarid Ecosystems. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2020JG005665.	1.3	28
30	The Photochemical Reflectance Index (PRI) Captures the Ecohydrologic Sensitivity of a Semiarid Mixed Conifer Forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005624.	1.3	11
31	Longer term effects of biological control on tamarisk evapotranspiration and carbon dioxide exchange. <i>Hydrological Processes</i> , 2020, 34, 223-236.	1.1	4
32	Assessment and Validation of AirMOSS P-Band Root-Zone Soil Moisture Products. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 6181-6196.	2.7	11
33	Testing water fluxes and storage from two hydrology configurations within the ORCHIDEE land surface model across US semi-arid sites. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 5203-5230.	1.9	16
34	Remote sensing of dryland ecosystem structure and function: Progress, challenges, and opportunities. <i>Remote Sensing of Environment</i> , 2019, 233, 111401.	4.6	193
35	Environmental and Vegetative Controls on Soil CO ₂ Efflux in Three Semiarid Ecosystems. <i>Soil Systems</i> , 2019, 3, 6.	1.0	21
36	Reviews and syntheses: Turning the challenges of partitioning ecosystem evaporation and transpiration into opportunities. <i>Biogeosciences</i> , 2019, 16, 3747-3775.	1.3	150

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37	Ecosystem hydrologic and metabolic flashiness are shaped by plant community traits and precipitation. <i>Agricultural and Forest Meteorology</i> , 2019, 279, 107674.	1.9	3
38	Evaluating the Met Office Unified Model land surface temperature in Global Atmosphere/Land 3.1 (GA/L3.1), Global Atmosphere/Land 6.1 (GA/L6.1) and limited area 2.2°km configurations. <i>Geoscientific Model Development</i> , 2019, 12, 1703-1724.	1.3	2
39	Intensification of the North American Monsoon Rainfall as Observed From a Long-Term High-Density Gauge Network. <i>Geophysical Research Letters</i> , 2019, 46, 6839-6847.	1.5	26
40	Critical Zone Water Balance Over 13 Years in a Semiarid Savanna. <i>Water Resources Research</i> , 2019, 55, 574-588.	1.7	49
41	Evaluating Soil Resistance Formulations in Thermal-Based Two-Source Energy Balance (TSEB) Model: Implications for Heterogeneous Semiarid and Arid Regions. <i>Water Resources Research</i> , 2019, 55, 1059-1078.	1.7	29
42	Implementing Dynamic Root Optimization in Noah-MP for Simulating Phreatophytic Root Water Uptake. <i>Water Resources Research</i> , 2018, 54, 1560-1575.	1.7	44
43	Hydraulic redistribution affects modeled carbon cycling via soil microbial activity and suppressed fire. <i>Global Change Biology</i> , 2018, 24, 3472-3485.	4.2	17
44	Chlorophyll Fluorescence Better Captures Seasonal and Interannual Gross Primary Productivity Dynamics Across Dryland Ecosystems of Southwestern North America. <i>Geophysical Research Letters</i> , 2018, 45, 748-757.	1.5	109
45	The AmeriFlux network: A coalition of the willing. <i>Agricultural and Forest Meteorology</i> , 2018, 249, 444-456.	1.9	140
46	Comparing ecosystem and soil respiration: Review and key challenges of tower-based and soil measurements. <i>Agricultural and Forest Meteorology</i> , 2018, 249, 434-443.	1.9	89
47	Shrubland carbon sink depends upon winter water availability in the warm deserts of North America. <i>Agricultural and Forest Meteorology</i> , 2018, 249, 407-419.	1.9	49
48	Impacts of droughts and extreme-temperature events on gross primary production and ecosystem respiration: a systematic assessment across ecosystems and climate zones. <i>Biogeosciences</i> , 2018, 15, 1293-1318.	1.3	137
49	Impact of Hydraulic Redistribution on Multispecies Vegetation Water Use in a Semiarid Savanna Ecosystem: An Experimental and Modeling Synthesis. <i>Water Resources Research</i> , 2018, 54, 4009-4027.	1.7	24
50	Changes in photosynthesis and soil moisture drive the seasonal soil respiration-temperature hysteresis relationship. <i>Agricultural and Forest Meteorology</i> , 2018, 259, 184-195.	1.9	65
51	Groundwater recharge decrease with increased vegetation density in the Brazilian cerrado. <i>Ecohydrology</i> , 2017, 10, e1759.	1.1	56
52	Subterranean ventilation of allochthonous CO ₂ governs net CO ₂ exchange in a semiarid Mediterranean grassland. <i>Agricultural and Forest Meteorology</i> , 2017, 234-235, 115-126.	1.9	22
53	Improving the accuracy of the gradient method for determining soil carbon dioxide efflux. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 50-64.	1.3	25
54	CO ₂ exchange and evapotranspiration across dryland ecosystems of southwestern North America. <i>Global Change Biology</i> , 2017, 23, 4204-4221.	4.2	164

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55	Evaluation of the VIIRS BRDF, Albedo and NBAR products suite and an assessment of continuity with the long term MODIS record. <i>Remote Sensing of Environment</i> , 2017, 201, 256-274.	4.6	89
56	Partitioning evapotranspiration using long-term carbon dioxide and water vapor fluxes. <i>Geophysical Research Letters</i> , 2017, 44, 6833-6840.	1.5	104
57	Impacts of hydraulic redistribution on grass-tree competition vs facilitation in a semi-arid savanna. <i>New Phytologist</i> , 2017, 215, 1451-1461.	3.5	51
58	The SMAP Level 4 Carbon Product for Monitoring Ecosystem Land-Atmosphere CO ₂ Exchange. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 6517-6532.	2.7	69
59	Evapotranspiration Estimates Derived Using Multi-Platform Remote Sensing in a Semiarid Region. <i>Remote Sensing</i> , 2017, 9, 184.	1.8	20
60	Downscaling SMAP and SMOS soil moisture with moderate-resolution imaging spectroradiometer visible and infrared products over southern Arizona. <i>Journal of Applied Remote Sensing</i> , 2017, 11, 026021.	0.6	24
61	Precipitation legacy effects on dryland ecosystem carbon fluxes: direction, magnitude and biogeochemical carryovers. <i>Biogeosciences</i> , 2016, 13, 425-439.	1.3	50
62	Combined measurement and modeling of the hydrological impact of hydraulic redistribution using CLM4.5 at eight AmeriFlux sites. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 2001-2018.	1.9	29
63	Vegetation productivity responds to sub-annual climate conditions across semiarid biomes. <i>Ecosphere</i> , 2016, 7, e01339.	1.0	42
64	Terrestrial carbon balance in a drier world: the effects of water availability in southwestern North America. <i>Global Change Biology</i> , 2016, 22, 1867-1879.	4.2	142
65	Productivity of North American grasslands is increased under future climate scenarios despite rising aridity. <i>Nature Climate Change</i> , 2016, 6, 710-714.	8.1	153
66	Warm spring reduced carbon cycle impact of the 2012 US summer drought. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5880-5885.	3.3	340
67	The increasing importance of atmospheric demand for ecosystem water and carbon fluxes. <i>Nature Climate Change</i> , 2016, 6, 1023-1027.	8.1	734
68	Recent tree die-off has little effect on streamflow in contrast to expected increases from historical studies. <i>Water Resources Research</i> , 2015, 51, 9775-9789.	1.7	97
69	Robust estimates of soil moisture and latent heat flux coupling strength obtained from triple collocation. <i>Geophysical Research Letters</i> , 2015, 42, 8415-8423.	1.5	36
70	The carbon balance pivot point of southwestern U.S. semiarid ecosystems: Insights from the 21st century drought. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 2612-2624.	1.3	142
71	Long-term decrease in satellite vegetation indices in response to environmental variables in an iconic desert riparian ecosystem: the Upper San Pedro, Arizona, United States. <i>Ecohydrology</i> , 2015, 8, 610-625.	1.1	33
72	The water balance components of undisturbed tropical woodlands in the Brazilian cerrado. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 2899-2910.	1.9	57

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73	Wide-area ratios of evapotranspiration to precipitation in monsoon-dependent semiarid vegetation communities. <i>Journal of Arid Environments</i> , 2015, 117, 84-95.	1.2	19
74	Biophysical controls on carbon and water vapor fluxes across a grassland climatic gradient in the United States. <i>Agricultural and Forest Meteorology</i> , 2015, 214-215, 293-305.	1.9	51
75	Water use efficiency of annualâ€dominated and bunchgrassâ€dominated savanna intercanopy space. <i>Ecohydrology</i> , 2014, 7, 1208-1215.	1.1	6
76	Actual Evapotranspiration (Water Use) Assessment of the Colorado River Basin at the Landsat Resolution Using the Operational Simplified Surface Energy Balance Model. <i>Remote Sensing</i> , 2014, 6, 233-256.	1.8	61
77	Quantifying the timescales over which exogenous and endogenous conditions affect soil respiration. <i>New Phytologist</i> , 2014, 202, 442-454.	3.5	40
78	High-resolution characterization of a semiarid watershed: Implications on evapotranspiration estimates. <i>Journal of Hydrology</i> , 2014, 509, 306-319.	2.3	44
79	Evaluating the effect of rainfall variability on vegetation establishment in a semidesert grassland. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 395-406.	1.3	17
80	Insights for empirically modeling evapotranspiration influenced by riparian and upland vegetation in semiarid regions. <i>Journal of Arid Environments</i> , 2014, 111, 42-52.	1.2	8
81	Data-driven diagnostics of terrestrial carbon dynamics over North America. <i>Agricultural and Forest Meteorology</i> , 2014, 197, 142-157.	1.9	88
82	When vegetation change alters ecosystem water availability. <i>Global Change Biology</i> , 2014, 20, 2198-2210.	4.2	78
83	An integrated modelling framework of catchmentâ€scale ecohydrological processes: 2. The role of water subsidy by overland flow on vegetation dynamics in a semiâ€arid catchment. <i>Ecohydrology</i> , 2014, 7, 815-827.	1.1	20
84	An integrated modelling framework of catchmentâ€scale ecohydrological processes: 1. Model description and tests over an energyâ€limited watershed. <i>Ecohydrology</i> , 2014, 7, 427-439.	1.1	68
85	Land-surface controls on afternoon precipitation diagnosed from observational data: uncertainties and confounding factors. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 8343-8367.	1.9	63
86	Using observations and a distributed hydrologic model to explore runoff thresholds linked with mesquite encroachment in the Sonoran Desert. <i>Water Resources Research</i> , 2014, 50, 8191-8215.	1.7	50
87	Antecedent Conditions Influence Soil Respiration Differences in Shrub and Grass Patches. <i>Ecosystems</i> , 2013, 16, 1230-1247.	1.6	37
88	Consequences of Cool-Season Drought-Induced Plant Mortality to Chihuahuan Desert Grassland Ecosystem and Soil Respiration Dynamics. <i>Ecosystems</i> , 2013, 16, 1178-1191.	1.6	19
89	Nocturnal soil CO ₂ uptake and its relationship to subsurface soil and ecosystem carbon fluxes in a Chihuahuan Desert shrubland. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 1593-1603.	1.3	44
90	Modeling evapotranspiration and its partitioning over a semiarid shrub ecosystem from satellite imagery: a multiple validation. <i>Journal of Applied Remote Sensing</i> , 2013, 7, 073495.	0.6	20

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91	Landscape and environmental controls over leaf and ecosystem carbon dioxide fluxes under woody plant expansion. <i>Journal of Ecology</i> , 2013, 101, 1471-1483.	1.9	21
92	Estimating Riparian and Agricultural Actual Evapotranspiration by Reference Evapotranspiration and MODIS Enhanced Vegetation Index. <i>Remote Sensing</i> , 2013, 5, 3849-3871.	1.8	76
93	Reduction in carbon uptake during turn of the century drought in western North America. <i>Nature Geoscience</i> , 2012, 5, 551-556.	5.4	263
94	Coupling diffusion and maximum entropy models to estimate thermal inertia. <i>Remote Sensing of Environment</i> , 2012, 119, 222-231.	4.6	26
95	Global estimation of evapotranspiration using a leaf area index-based surface energy and water balance model. <i>Remote Sensing of Environment</i> , 2012, 124, 581-595.	4.6	136
96	Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. <i>New Phytologist</i> , 2012, 194, 775-783.	3.5	111
97	Energy exchange and evapotranspiration over two temperate semi-arid grasslands in North America. <i>Agricultural and Forest Meteorology</i> , 2012, 153, 31-44.	1.9	115
98	Multiple year effects of a biological control agent (<i>Diorhabda carinulata</i>) on Tamarix (saltcedar) ecosystem exchanges of carbon dioxide and water. <i>Agricultural and Forest Meteorology</i> , 2012, 164, 161-169.	1.9	20
99	Commonalities of carbon dioxide exchange in semiarid regions with monsoon and Mediterranean climates. <i>Journal of Arid Environments</i> , 2012, 84, 71-79.	1.2	18
100	Temperature and precipitation controls over leaf and ecosystem level CO_2 flux along a woody plant encroachment gradient. <i>Global Change Biology</i> , 2012, 18, 1389-1400.	4.2	65
101	Shrub encroachment alters sensitivity of soil respiration to temperature and moisture. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	28
102	How do variations in the temporal distribution of rainfall events affect ecosystem fluxes in seasonally water-limited Northern Hemisphere shrublands and forests?. <i>Biogeosciences</i> , 2012, 9, 1007-1024.	1.3	38
103	Soil moisture and ecosystem function responses of desert grassland varying in vegetative cover to a saturating precipitation pulse. <i>Ecohydrology</i> , 2012, 5, 297-305.	1.1	20
104	Understanding ecohydrological connectivity in savannas: a system dynamics modelling approach. <i>Ecohydrology</i> , 2012, 5, 200-220.	1.1	31
105	Invasion of shrublands by exotic grasses: ecohydrological consequences in cold versus warm deserts. <i>Ecohydrology</i> , 2012, 5, 160-173.	1.1	72
106	Cool-season whole-plant gas exchange of exotic and native semiarid bunchgrasses. <i>Plant Ecology</i> , 2012, 213, 1229-1239.	0.7	10
107	Calculating CO_2 and H_2O eddy covariance fluxes from an enclosed gas analyzer using an instantaneous mixing ratio. <i>Global Change Biology</i> , 2012, 18, 385-399.	4.2	95
108	Endogenous circadian regulation of carbon dioxide exchange in terrestrial ecosystems. <i>Global Change Biology</i> , 2012, 18, 1956-1970.	4.2	35

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109	The relative controls of temperature, soil moisture, and plant functional group on soil CO ₂ efflux at diel, seasonal, and annual scales. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	94
110	The potential of carbonyl sulfide as a proxy for gross primary production at flux tower sites. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	46
111	Comparative rates of wind versus water erosion from a small semiarid watershed in southern Arizona, USA. <i>Aeolian Research</i> , 2011, 3, 197-204.	1.1	20
112	Assessing net ecosystem carbon exchange of U.S. terrestrial ecosystems by integrating eddy covariance flux measurements and satellite observations. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 60-69.	1.9	157
113	Thermal adaptation of net ecosystem exchange. <i>Biogeosciences</i> , 2011, 8, 1453-1463.	1.3	30
114	Quantification of terrestrial ecosystem carbon dynamics in the conterminous United States combining a process-based biogeochemical model and MODIS and AmeriFlux data. <i>Biogeosciences</i> , 2011, 8, 2665-2688.	1.3	26
115	Estimating evapotranspiration under warmer climates: Insights from a semi-arid riparian system. <i>Journal of Hydrology</i> , 2011, 399, 1-11.	2.3	45
116	Inter- and under-canopy soil water, leaf-level and whole-plant gas exchange dynamics of a semi-arid perennial C4 grass. <i>Oecologia</i> , 2011, 165, 17-29.	0.9	15
117	Evapotranspiration partitioning in semiarid shrubland ecosystems: a two-site evaluation of soil moisture control on transpiration. <i>Ecohydrology</i> , 2011, 4, 671-681.	1.1	145
118	Woody plants modulate the temporal dynamics of soil moisture in a semi-arid mesquite savanna. <i>Ecohydrology</i> , 2010, 3, 20-27.	1.1	30
119	Growing season ecosystem and leaf-level gas exchange of an exotic and native semiarid bunchgrass. <i>Oecologia</i> , 2010, 163, 561-570.	0.9	26
120	A continuous measure of gross primary production for the conterminous United States derived from MODIS and AmeriFlux data. <i>Remote Sensing of Environment</i> , 2010, 114, 576-591.	4.6	210
121	Functional differences between summer and winter season rain assessed with MODIS-derived phenology in a semi-arid region. <i>Journal of Vegetation Science</i> , 2010, 21, 16-30.	1.1	43
122	Hydrologic response to precipitation pulses under and between shrubs in the Chihuahuan Desert, Arizona. <i>Water Resources Research</i> , 2010, 46, .	1.7	10
123	Long-term runoff and sediment yields from small semiarid watersheds in southern Arizona. <i>Water Resources Research</i> , 2010, 46, .	1.7	61
124	Carbon dioxide exchange in a semidesert grassland through drought-induced vegetation change. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	156
125	Runoff and erosional responses to a drought-induced shift in a desert grassland community composition. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	20
126	Spatio-temporal variations in surface characteristics over the North American Monsoon region. <i>Journal of Arid Environments</i> , 2010, 74, 540-548.	1.2	14

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127	Carbon dioxide and water vapour exchange in a tropical dry forest as influenced by the North American Monsoon System (NAMS). <i>Journal of Arid Environments</i> , 2010, 74, 556-563.	1.2	32
128	Using watershed water balance to evaluate the accuracy of eddy covariance evaporation measurements for three semiarid ecosystems. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 219-225.	1.9	144
129	Productivity, Respiration, and Light-Response Parameters of World Grassland and Agroecosystems Derived From Flux-Tower Measurements. <i>Rangeland Ecology and Management</i> , 2010, 63, 16-39.	1.1	133
130	On the theory relating changes in area coverage and pan evaporation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 1230-1247.	1.0	42
131	Latitudinal patterns of magnitude and interannual variability in net ecosystem exchange regulated by biological and environmental variables. <i>Global Change Biology</i> , 2009, 15, 2905-2920.	4.2	94
132	Partitioning evapotranspiration in semiarid grassland and shrubland ecosystems using time series of soil surface temperature. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 59-72.	1.9	107
133	Soil evaporation response to Lehmann lovegrass (<i>Eragrostis lehmanniana</i>) invasion in a semiarid watershed. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 2133-2142.	1.9	24
134	Gross primary production variability associated with meteorology, physiology, leaf area, and water supply in contrasting woodland and grassland semiarid riparian ecosystems. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	24
135	Effects of seasonal drought on net carbon dioxide exchange from a woody plant encroached semiarid grassland. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	187
136	Effect of remote sensing spatial resolution on interpreting tower-based flux observations. <i>Remote Sensing of Environment</i> , 2008, 112, 337-349.	4.6	140
137	Whole ecosystem metabolic pulses following precipitation events. <i>Functional Ecology</i> , 2008, 22, 924-930.	1.7	114
138	A remote sensing approach for estimating distributed daily net carbon dioxide flux in semiarid grasslands. <i>Water Resources Research</i> , 2008, 44, .	1.7	13
139	Preface to special section on Fifty Years of Research and Data Collection: U.S. Department of Agriculture Walnut Gulch Experimental Watershed. <i>Water Resources Research</i> , 2008, 44, .	1.7	38
140	The ecohydrologic significance of hydraulic redistribution in a semiarid savanna. <i>Water Resources Research</i> , 2008, 44, .	1.7	132
141	Event to multidecadal persistence in rainfall and runoff in southeast Arizona. <i>Water Resources Research</i> , 2008, 44, .	1.7	44
142	Multiyear riparian evapotranspiration and groundwater use for a semiarid watershed. <i>Journal of Arid Environments</i> , 2008, 72, 1232-1246.	1.2	100
143	Estimation of net ecosystem carbon exchange for the conterminous United States by combining MODIS and AmeriFlux data. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 1827-1847.	1.9	221
144	Measuring soil moisture content noninvasively at intermediate spatial scale using cosmic ray neutrons. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	372

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145	Observed relation between evapotranspiration and soil moisture in the North American monsoon region. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	134
146	SENSITIVITY OF MESQUITE SHRUBLAND CO ₂ EXCHANGE TO PRECIPITATION IN CONTRASTING LANDSCAPE SETTINGS. <i>Ecology</i> , 2008, 89, 2900-2910.	1.5	41
147	Changes in Vegetation Condition and Surface Fluxes during NAME 2004. <i>Journal of Climate</i> , 2007, 20, 1810-1820.	1.2	55
148	Relationship between evapotranspiration and precipitation pulses in a semiarid rangeland estimated by moisture flux towers and MODIS vegetation indices. <i>Journal of Arid Environments</i> , 2007, 70, 443-462.	1.2	119
149	Intraseasonal Variation in Water and Carbon Dioxide Flux Components in a Semiarid Riparian Woodland. <i>Ecosystems</i> , 2007, 10, 1100-1115.	1.6	63
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