Russell L Scott

List of Publications by Year in Descending Order

171 papers	9,580 citations	56 h-index	93 g-index
181 ext. papers	11,301 ext. citations	6.3 avg, IF	6.08 L-index

#	Paper	IF	Citations
171	A Microbial-Explicit Soil Organic Carbon Decomposition Model (MESDM): Development and Testing at a Semiarid Grassland Site. *Journal of Advances in Modeling Earth Systems*, **2022**, 14, e2021MS002485	7.1	1
170	A micrometeorological flux perspective on brush management in a shrub-encroached Sonoran Desert grassland. *Agricultural and Forest Meteorology*, **2022**, 313, 108763	5.8	0
169	Satellite solar-induced chlorophyll fluorescence and near-infrared reflectance capture complementary aspects of dryland vegetation productivity dynamics. *Remote Sensing of Environment*, **2022**, 270, 112858	13.2	3
168	Confronting the water potential information gap.. *Nature Geoscience*, **2022**, 15, 158-164	18.3	3
167	Improved dryland carbon flux predictions with explicit consideration of water-carbon coupling. *Communications Earth & Environment*, **2021**, 2,	6.1	2
166	Optimizing Carbon Cycle Parameters Drastically Improves Terrestrial Biosphere Model Underestimates of Dryland Mean Net CO 2 Flux and its Inter-Annual Variability. *Journal of Geophysical Research G: Biogeosciences*, **2021**, 126,	3.7	1
165	Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. *Agricultural and Forest Meteorology*, **2021**, 301-302, 108350	5.8	43
164	Convergent Hydraulic Redistribution and Groundwater Access Supported Facilitative Dependency Between Trees and Grasses in a Semi-Arid Environment. *Water Resources Research*, **2021**, 57, e2020WR028103	5.4	1
163	Water Availability Impacts on Evapotranspiration Partitioning. *Agricultural and Forest Meteorology*, **2021**, 297, 108251	5.8	10
162	Hydraulic redistribution buffers climate variability and regulates grass-tree interactions in a semiarid riparian savanna. *Ecohydrology*, **2021**, 14, e2271	2.5	0
161	Long-term research catchments to investigate shrub encroachment in the Sonoran and Chihuahuan deserts: Santa Rita and Jornada experimental ranges. *Hydrological Processes*, **2021**, 35, e14031	3.3	5
160	Dynamic global vegetation models underestimate net CO2 flux mean and inter-annual variability in dryland ecosystems. *Environmental Research Letters*, **2021**, 16, 094023	6.2	5
159	Integrating continuous atmospheric boundary layer and tower-based flux measurements to advance understanding of land-atmosphere interactions. *Agricultural and Forest Meteorology*, **2021**, 307, 108509	5.8	10
158	The three major axes of terrestrial ecosystem function. *Nature*, **2021**, 598, 468-472	50.4	8
157	The USDA-Agricultural Research Service's long term agro-ecosystems Walnut Gulch Experimental Watershed, Arizona, USA. *Hydrological Processes*, **2021**, 35, e14349	3.3	0
156	Seasonality in aerodynamic resistance across a range of North American ecosystems. *Agricultural and Forest Meteorology*, **2021**, 310, 108613	5.8	3
155	Monitoring agroecosystem productivity and phenology at a national scale: A metric assessment framework. *Ecological Indicators*, **2021**, 131, 108147	5.8	3

154	The Photochemical Reflectance Index (PRI) Captures the Ecohydrologic Sensitivity of a Semiarid Mixed Conifer Forest. *Journal of Geophysical Research G: Biogeosciences*, **2020**, 125, e2019JG005624	3.7	5
153	Longer term effects of biological control on tamarisk evapotranspiration and carbon dioxide exchange. *Hydrological Processes*, **2020**, 34, 223-236	3.3	2
152	. *IEEE Transactions on Geoscience and Remote Sensing*, **2020**, 58, 6181-6196	8.1	5
151	Testing water fluxes and storage from two hydrology configurations within the ORCHIDEE land surface model across US semi-arid sites. *Hydrology and Earth System Sciences*, **2020**, 24, 5203-5230	5.5	5
150	Ecosystem carbon and water cycling from a sky island montane forest. *Agricultural and Forest Meteorology*, **2020**, 281, 107835	5.8	10
149	Ecosystem transpiration and evaporation: Insights from three water flux partitioning methods across FLUXNET sites. *Global Change Biology*, **2020**, 26, 6916-6930	11.4	31
148	COSORE: A community database for continuous soil respiration and other soil-atmosphere greenhouse gas flux data. *Global Change Biology*, **2020**, 26, 7268-7283	11.4	22
147	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. *Scientific Data*, **2020**, 7, 225	8.2	256
146	Synergistic use of SMAP and OCO-2 data in assessing the responses of ecosystem productivity to the 2018 U.S. drought. *Remote Sensing of Environment*, **2020**, 251, 112062	13.2	11
145	Montane forest productivity across a semiarid climatic gradient. *Global Change Biology*, **2020**, 26, 6945-6958	11.4	7
144	High Vapor Pressure Deficit Decreases the Productivity and Water Use Efficiency of Rain-Induced Pulses in Semiarid Ecosystems. *Journal of Geophysical Research G: Biogeosciences*, **2020**, 125, e2020JG005665	3.7	5
143	Environmental and Vegetative Controls on Soil CO2 Efflux in Three Semiarid Ecosystems. *Soil Systems*, **2019**, 3, 6	3.5	12
142	Reviews and syntheses: Turning the challenges of partitioning ecosystem evaporation and transpiration into opportunities. *Biogeosciences*, **2019**, 16, 3747-3775	4.6	75
141	Ecosystem hydrologic and metabolic flashiness are shaped by plant community traits and precipitation. *Agricultural and Forest Meteorology*, **2019**, 279, 107674	5.8	3
140	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. *Geoscientific Model Development*, **2019**, 12, 1703-1724	6.3	1
139	Intensification of the North American Monsoon Rainfall as Observed From a Long-Term High-Density Gauge Network. *Geophysical Research Letters*, **2019**, 46, 6839-6847	4.9	10
138	Remote sensing of dryland ecosystem structure and function: Progress, challenges, and opportunities. *Remote Sensing of Environment*, **2019**, 233, 111401	13.2	94
137	Critical Zone Water Balance Over 13 Years in a Semiarid Savanna. *Water Resources Research*, **2019**, 55, 574-588	5.4	27

136	Evaluating Soil Resistance Formulations in Thermal-Based Two-Source Energy Balance (TSEB) Model: Implications for Heterogeneous Semiarid and Arid Regions. *Water Resources Research*, **2019**, 55, 1059-1078	5.4	13
135	Implementing Dynamic Root Optimization in Noah-MP for Simulating Phreatophytic Root Water Uptake. *Water Resources Research*, **2018**, 54, 1560-1575	5.4	29
134	Hydraulic redistribution affects modeled carbon cycling via soil microbial activity and suppressed fire. *Global Change Biology*, **2018**, 24, 3472-3485	11.4	10
133	Chlorophyll Fluorescence Better Captures Seasonal and Interannual Gross Primary Productivity Dynamics Across Dryland Ecosystems of Southwestern North America. *Geophysical Research Letters* , **2018**, 45, 748-757	4.9	70
132	The AmeriFlux network: A coalition of the willing. *Agricultural and Forest Meteorology*, **2018**, 249, 444-456	5.8	67
131	Impact of Hydraulic Redistribution on Multispecies Vegetation Water Use in a Semiarid Savanna Ecosystem: An Experimental and Modeling Synthesis. *Water Resources Research*, **2018**, 54, 4009-4027	5.4	13
130	Changes in photosynthesis and soil moisture drive the seasonal soil respiration-temperature hysteresis relationship. *Agricultural and Forest Meteorology*, **2018**, 259, 184-195	5.8	38
129	Comparing ecosystem and soil respiration: Review and key challenges of tower-based and soil measurements. *Agricultural and Forest Meteorology*, **2018**, 249, 434-443	5.8	59
128	Shrubland carbon sink depends upon winter water availability in the warm deserts of North America. *Agricultural and Forest Meteorology*, **2018**, 249, 407-419	5.8	28
127	Impacts of droughts and extreme-temperature events on gross primary production and ecosystem respiration: a systematic assessment across ecosystems and climate zones. *Biogeosciences*, **2018**, 15, 1293-1318	4.6	79
126	Groundwater recharge decrease with increased vegetation density in the Brazilian cerrado. *Ecohydrology*, **2017**, 10, e1759	2.5	41
125	Subterranean ventilation of allochthonous CO 2 governs net CO 2 exchange in a semiarid Mediterranean grassland. *Agricultural and Forest Meteorology*, **2017**, 234-235, 115-126	5.8	15
124	Improving the accuracy of the gradient method for determining soil carbon dioxide efflux. *Journal of Geophysical Research G: Biogeosciences*, **2017**, 122, 50-64	3.7	19
123	CO exchange and evapotranspiration across dryland ecosystems of southwestern North America. *Global Change Biology*, **2017**, 23, 4204-4221	11.4	103
122	Evaluation of the VIIRS BRDF, Albedo and NBAR products suite and an assessment of continuity with the long term MODIS record. *Remote Sensing of Environment*, **2017**, 201, 256-274	13.2	62
121	Partitioning evapotranspiration using long-term carbon dioxide and water vapor fluxes. *Geophysical Research Letters*, **2017**, 44, 6833-6840	4.9	71
120	Impacts of hydraulic redistribution on grass-tree competition vs facilitation in a semi-arid savanna. *New Phytologist*, **2017**, 215, 1451-1461	9.8	37
119	. *IEEE Transactions on Geoscience and Remote Sensing*, **2017**, 55, 6517-6532	8.1	45

118	Evapotranspiration Estimates Derived Using Multi-Platform Remote Sensing in a Semiarid Region. *Remote Sensing*, **2017**, 9, 184	5	19
117	Downscaling SMAP and SMOS soil moisture with moderate-resolution imaging spectroradiometer visible and infrared products over southern Arizona. *Journal of Applied Remote Sensing*, **2017**, 11, 026021	1.4	17
116	Precipitation legacy effects on dryland ecosystem carbon fluxes: direction, magnitude and biogeochemical carryovers. *Biogeosciences*, **2016**, 13, 425-439	4.6	35
115	Combined measurement and modeling of the hydrological impact of hydraulic redistribution using CLM4.5 at eight AmeriFlux sites. *Hydrology and Earth System Sciences*, **2016**, 20, 2001-2018	5.5	24
114	Vegetation productivity responds to sub-annual climate conditions across semiarid biomes. *Ecosphere*, **2016**, 7, e01339	3.1	30
113	Terrestrial carbon balance in a drier world: the effects of water availability in southwestern North America. *Global Change Biology*, **2016**, 22, 1867-79	11.4	111
112	Productivity of North American grasslands is increased under future climate scenarios despite rising aridity. *Nature Climate Change*, **2016**, 6, 710-714	21.4	99
111	Warm spring reduced carbon cycle impact of the 2012 US summer drought. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 5880-5	11.5	232
110	The increasing importance of atmospheric demand for ecosystem water and carbon fluxes. *Nature Climate Change*, **2016**, 6, 1023-1027	21.4	419
109	Wide-area ratios of evapotranspiration to precipitation in monsoon-dependent semiarid vegetation communities. *Journal of Arid Environments*, **2015**, 117, 84-95	2.5	15
108	Biophysical controls on carbon and water vapor fluxes across a grassland climatic gradient in the United States. *Agricultural and Forest Meteorology*, **2015**, 214-215, 293-305	5.8	44
107	Recent tree die-off has little effect on streamflow in contrast to expected increases from historical studies. *Water Resources Research*, **2015**, 51, 9775-9789	5.4	74
106	Robust estimates of soil moisture and latent heat flux coupling strength obtained from triple collocation. *Geophysical Research Letters*, **2015**, 42, 8415-8423	4.9	25
105	The carbon balance pivot point of southwestern U.S. semiarid ecosystems: Insights from the 21st century drought. *Journal of Geophysical Research G: Biogeosciences*, **2015**, 120, 2612-2624	3.7	109
104	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. *Ecohydrology*, **2015**, 8, 610-625	2.5	23
103	The water balance components of undisturbed tropical woodlands in the Brazilian cerrado. *Hydrology and Earth System Sciences*, **2015**, 19, 2899-2910	5.5	44
102	Insights for empirically modeling evapotranspiration influenced by riparian and upland vegetation in semiarid regions. *Journal of Arid Environments*, **2014**, 111, 42-52	2.5	7
101	Data-driven diagnostics of terrestrial carbon dynamics over North America. *Agricultural and Forest Meteorology*, **2014**, 197, 142-157	5.8	73

100	When vegetation change alters ecosystem water availability. *Global Change Biology*, **2014**, 20, 2198-210	11.4	60
99	An integrated modelling framework of catchment-scale ecohydrological processes: 2. The role of water subsidy by overland flow on vegetation dynamics in a semi-arid catchment. *Ecohydrology*, **2014**, 7, 815-827	2.5	18
98	An integrated modelling framework of catchment-scale ecohydrological processes: 1. Model description and tests over an energy-limited watershed. *Ecohydrology*, **2014**, 7, 427-439	2.5	59
97	Land-surface controls on afternoon precipitation diagnosed from observational data: uncertainties and confounding factors. *Atmospheric Chemistry and Physics*, **2014**, 14, 8343-8367	6.8	52
96	Using observations and a distributed hydrologic model to explore runoff thresholds linked with mesquite encroachment in the Sonoran Desert. *Water Resources Research*, **2014**, 50, 8191-8215	5.4	34
95	Actual Evapotranspiration (Water Use) Assessment of the Colorado River Basin at the Landsat Resolution Using the Operational Simplified Surface Energy Balance Model. *Remote Sensing*, **2014**, 6, 233-256	5	45
94	Quantifying the timescales over which exogenous and endogenous conditions affect soil respiration. *New Phytologist*, **2014**, 202, 442-454	9.8	35
93	High-resolution characterization of a semiarid watershed: Implications on evapotranspiration estimates. *Journal of Hydrology*, **2014**, 509, 306-319	6	38
92	Evaluating the effect of rainfall variability on vegetation establishment in a semidesert grassland. *Environmental Monitoring and Assessment*, **2014**, 186, 395-406	3.1	15
91	Antecedent Conditions Influence Soil Respiration Differences in Shrub and Grass Patches. *Ecosystems*, **2013**, 16, 1230-1247	3.9	33
90	Water use efficiency of annual-dominated and bunchgrass-dominated savanna intercanopy space. *Ecohydrology*, **2013**, 7, n/a-n/a	2.5	3
89	Consequences of Cool-Season Drought-Induced Plant Mortality to Chihuahuan Desert Grassland Ecosystem and Soil Respiration Dynamics. *Ecosystems*, **2013**, 16, 1178-1191	3.9	18
88	Nocturnal soil CO2 uptake and its relationship to subsurface soil and ecosystem carbon fluxes in a Chihuahuan Desert shrubland. *Journal of Geophysical Research G: Biogeosciences*, **2013**, 118, 1593-1603	3.7	33
87	Modeling evapotranspiration and its partitioning over a semiarid shrub ecosystem from satellite imagery: a multiple validation. *Journal of Applied Remote Sensing*, **2013**, 7, 073495	1.4	20
86	Landscape and environmental controls over leaf and ecosystem carbon dioxide fluxes under woody plant expansion. *Journal of Ecology*, **2013**, 101, 1471-1483	6	19
85	Estimating Riparian and Agricultural Actual Evapotranspiration by Reference Evapotranspiration and MODIS Enhanced Vegetation Index. *Remote Sensing*, **2013**, 5, 3849-3871	5	57
84	Coupling diffusion and maximum entropy models to estimate thermal inertia. *Remote Sensing of Environment*, **2012**, 119, 222-231	13.2	18
83	Global estimation of evapotranspiration using a leaf area index-based surface energy and water balance model. *Remote Sensing of Environment*, **2012**, 124, 581-595	13.2	100

82	Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. *New Phytologist*, **2012**, 194, 775-783	9.8	81
81	Energy exchange and evapotranspiration over two temperate semi-arid grasslands in North America. *Agricultural and Forest Meteorology*, **2012**, 153, 31-44	5.8	93
80	Multiple year effects of a biological control agent (Diorhabda carinulata) on Tamarix (saltcedar) ecosystem exchanges of carbon dioxide and water. *Agricultural and Forest Meteorology*, **2012**, 164, 161-169	5.8	18
79	Commonalities of carbon dioxide exchange in semiarid regions with monsoon and Mediterranean climates. *Journal of Arid Environments*, **2012**, 84, 71-79	2.5	15
78	Temperature and precipitation controls over leaf- and ecosystem-level CO2 flux along a woody plant encroachment gradient. *Global Change Biology*, **2012**, 18, 1389-1400	11.4	52
77	Shrub encroachment alters sensitivity of soil respiration to temperature and moisture. *Journal of Geophysical Research*, **2012**, 117,		24
76	How do variations in the temporal distribution of rainfall events affect ecosystem fluxes in seasonally water-limited Northern Hemisphere shrublands and forests?. *Biogeosciences*, **2012**, 9, 1007-1024	4.6	32
75	Soil moisture and ecosystem function responses of desert grassland varying in vegetative cover to a saturating precipitation pulse. *Ecohydrology*, **2012**, 5, 297-305	2.5	17
74	Understanding ecohydrological connectivity in savannas: a system dynamics modelling approach. *Ecohydrology*, **2012**, 5, 200-220	2.5	29
73	Invasion of shrublands by exotic grasses: ecohydrological consequences in cold versus warm deserts. *Ecohydrology*, **2012**, 5, 160-173	2.5	61
72	Cool-season whole-plant gas exchange of exotic and native semiarid bunchgrasses. *Plant Ecology*, **2012**, 213, 1229-1239	1.7	8
71	Calculating CO2 and H2O eddy covariance fluxes from an enclosed gas analyzer using an instantaneous mixing ratio. *Global Change Biology*, **2012**, 18, 385-399	11.4	77
70	Endogenous circadian regulation of carbon dioxide exchange in terrestrial ecosystems. *Global Change Biology*, **2012**, 18, 1956-1970	11.4	30
69	Reduction in carbon uptake during turn of the century drought in western North America. *Nature Geoscience*, **2012**, 5, 551-556	18.3	216
68	The relative controls of temperature, soil moisture, and plant functional group on soil CO2 efflux at diel, seasonal, and annual scales. *Journal of Geophysical Research*, **2011**, 116,		84
67	The potential of carbonyl sulfide as a proxy for gross primary production at flux tower sites. *Journal of Geophysical Research*, **2011**, 116,		40
66	Comparative rates of wind versus water erosion from a small semiarid watershed in southern Arizona, USA. *Aeolian Research*, **2011**, 3, 197-204	3.9	17
65	Assessing net ecosystem carbon exchange of U.S. terrestrial ecosystems by integrating eddy covariance flux measurements and satellite observations. *Agricultural and Forest Meteorology*, **2011** , 151, 60-69	5.8	145

64	Thermal adaptation of net ecosystem exchange. *Biogeosciences*, **2011**, 8, 1453-1463	4.6	23
63	Quantification of terrestrial ecosystem carbon dynamics in the conterminous United States combining a process-based biogeochemical model and MODIS and AmeriFlux data. *Biogeosciences*, **2011**, 8, 2665-2688	4.6	22
62	Estimating evapotranspiration under warmer climates: Insights from a semi-arid riparian system. *Journal of Hydrology*, **2011**, 399, 1-11	6	40
61	Inter- and under-canopy soil water, leaf-level and whole-plant gas exchange dynamics of a semi-arid perennial C4 grass. *Oecologia*, **2011**, 165, 17-29	2.9	13
60	Evapotranspiration partitioning in semiarid shrubland ecosystems: a two-site evaluation of soil moisture control on transpiration. *Ecohydrology*, **2011**, 4, 671-681	2.5	125
59	Functional differences between summer and winter season rain assessed with MODIS-derived phenology in a semi-arid region. *Journal of Vegetation Science*, **2010**, 21, 16-30	3.1	36
58	Hydrologic response to precipitation pulses under and between shrubs in the Chihuahuan Desert, Arizona. *Water Resources Research*, **2010**, 46,	5.4	10
57	Long-term runoff and sediment yields from small semiarid watersheds in southern Arizona. *Water Resources Research*, **2010**, 46,	5.4	47
56	Carbon dioxide exchange in a semidesert grassland through drought-induced vegetation change. *Journal of Geophysical Research*, **2010**, 115,		128
55	Runoff and erosional responses to a drought-induced shift in a desert grassland community composition. *Journal of Geophysical Research*, **2010**, 115,		16
54	Spatio-temporal variations in surface characteristics over the North American Monsoon region. *Journal of Arid Environments*, **2010**, 74, 540-548	2.5	13
53	Carbon dioxide and water vapour exchange in a tropical dry forest as influenced by the North American Monsoon System (NAMS). *Journal of Arid Environments*, **2010**, 74, 556-563	2.5	28
52	Using watershed water balance to evaluate the accuracy of eddy covariance evaporation measurements for three semiarid ecosystems. *Agricultural and Forest Meteorology*, **2010**, 150, 219-225	5.8	126
51	Productivity, Respiration, and Light-Response Parameters of World Grassland and Agroecosystems Derived From Flux-Tower Measurements. *Rangeland Ecology and Management*, **2010**, 63, 16-39	2.2	117
50	Growing season ecosystem and leaf-level gas exchange of an exotic and native semiarid bunchgrass. *Oecologia*, **2010**, 163, 561-70	2.9	22
49	A continuous measure of gross primary production for the conterminous United States derived from MODIS and AmeriFlux data. *Remote Sensing of Environment*, **2010**, 114, 576-591	13.2	183
48	Woody plants modulate the temporal dynamics of soil moisture in a semi-arid mesquite savanna. *Ecohydrology*, **2009**, 3, n/a-n/a	2.5	16
47	On the theory relating changes in area-average and pan evaporation. *Quarterly Journal of the Royal Meteorological Society*, **2009**, 135, 1230-1247	6.4	37

46	Latitudinal patterns of magnitude and interannual variability in net ecosystem exchange regulated by biological and environmental variables. *Global Change Biology*, **2009**, 15, 2905-2920	11.4	84
45	Partitioning evapotranspiration in semiarid grassland and shrubland ecosystems using time series of soil surface temperature. *Agricultural and Forest Meteorology*, **2009**, 149, 59-72	5.8	92
44	Soil evaporation response to Lehmann lovegrass (Eragrostis lehmanniana) invasion in a semiarid watershed. *Agricultural and Forest Meteorology*, **2009**, 149, 2133-2142	5.8	21
43	Gross primary production variability associated with meteorology, physiology, leaf area, and water supply in contrasting woodland and grassland semiarid riparian ecosystems. *Journal of Geophysical Research*, **2009**, 114,		22
42	Effects of seasonal drought on net carbon dioxide exchange from a woody-plant-encroached semiarid grassland. *Journal of Geophysical Research*, **2009**, 114,		162
41	Whole ecosystem metabolic pulses following precipitation events. *Functional Ecology*, **2008**, 22, 924-930	5.6	104
40	A remote sensing approach for estimating distributed daily net carbon dioxide flux in semiarid grasslands. *Water Resources Research*, **2008**, 44,	5.4	9
39	Preface to special section on Fifty Years of Research and Data Collection: U.S. Department of Agriculture Walnut Gulch Experimental Watershed. *Water Resources Research*, **2008**, 44,	5.4	33
38	The ecohydrologic significance of hydraulic redistribution in a semiarid savanna. *Water Resources Research*, **2008**, 44,	5.4	116
37	Event to multidecadal persistence in rainfall and runoff in southeast Arizona. *Water Resources Research*, **2008**, 44,	5.4	35
36	Multiyear riparian evapotranspiration and groundwater use for a semiarid watershed. *Journal of Arid Environments*, **2008**, 72, 1232-1246	2.5	88
35	Estimation of net ecosystem carbon exchange for the conterminous United States by combining MODIS and AmeriFlux data. *Agricultural and Forest Meteorology*, **2008**, 148, 1827-1847	5.8	191
34	Measuring soil moisture content non-invasively at intermediate spatial scale using cosmic-ray neutrons. *Geophysical Research Letters*, **2008**, 35,	4.9	293
33	Observed relation between evapotranspiration and soil moisture in the North American monsoon region. *Geophysical Research Letters*, **2008**, 35,	4.9	116
32	Sensitivity of mesquite shrubland CO2 exchange to precipitation in contrasting landscape settings. *Ecology*, **2008**, 89, 2900-10	4.6	37
31	Effect of remote sensing spatial resolution on interpreting tower-based flux observations. *Remote Sensing of Environment*, **2008**, 112, 337-349	13.2	121
30	Intraseasonal Variation in Water and Carbon Dioxide Flux Components in a Semiarid Riparian Woodland. *Ecosystems*, **2007**, 10, 1100-1115	3.9	51
29	Changes in Vegetation Condition and Surface Fluxes during NAME 2004. *Journal of Climate*, **2007**, 20, 1810-1820	4.4	51

28	Relationship between evapotranspiration and precipitation pulses in a semiarid rangeland estimated by moisture flux towers and MODIS vegetation indices. *Journal of Arid Environments*, **2007**, 70, 443-462	2.5	106
27	Sensitivity of riparian ecosystems in arid and semiarid environments to moisture pulses. *Hydrological Processes*, **2006**, 20, 3191-3205	3.3	43
26	Partitioning of evapotranspiration and its relation to carbon dioxide exchange in a Chihuahuan Desert shrubland. *Hydrological Processes*, **2006**, 20, 3227-3243	3.3	161
25	Controls on transpiration in a semiarid riparian cottonwood forest. *Agricultural and Forest Meteorology*, **2006**, 137, 56-67	5.8	91
24	Ecohydrological impacts of woody-plant encroachment: seasonal patterns of water and carbon dioxide exchange within a semiarid riparian environment. *Global Change Biology*, **2006**, 12, 311-324	11.4	179
23	The sensitivity of ecosystem carbon exchange to seasonal precipitation and woody plant encroachment. *Oecologia*, **2006**, 150, 453-63	2.9	37
22	ECOHYDROLOGICAL IMPLICATIONS OF WOODY PLANT ENCROACHMENT. *Ecology*, **2005**, 86, 308-319	4.6	500
21	Evapotranspiration on western U.S. rivers estimated using the Enhanced Vegetation Index from MODIS and data from eddy covariance and Bowen ratio flux towers. *Remote Sensing of Environment* , **2005**, 97, 337-351	13.2	223
20	Comparison of methods to estimate ephemeral channel recharge, Walnut Gulch, San Pedro River Basin, Arizona. *Water Science and Application*, **2004**, 77-99		56
19	Hydraulic redistribution by a dominant, warm-desert phreatophyte: seasonal patterns and response to precipitation pulses. *Functional Ecology*, **2004**, 18, 530-538	5.6	111
18	Interannual and seasonal variation in fluxes of water and carbon dioxide from a riparian woodland ecosystem. *Agricultural and Forest Meteorology*, **2004**, 122, 65-84	5.8	141
17	The understory and overstory partitioning of energy and water fluxes in an open canopy, semiarid woodland. *Agricultural and Forest Meteorology*, **2003**, 114, 127-139	5.8	76
16	Partitioning overstory and understory evapotranspiration in a semiarid savanna woodland from the isotopic composition of water vapor. *Agricultural and Forest Meteorology*, **2003**, 119, 53-68	5.8	193
15	Preface paper to the Semi-Arid Land-Surface-Atmosphere (SALSA) Program special issue. *Agricultural and Forest Meteorology*, **2000**, 105, 3-20	5.8	44
14	The water use of two dominant vegetation communities in a semiarid riparian ecosystem. *Agricultural and Forest Meteorology*, **2000**, 105, 241-256	5.8	108
13	Seasonal estimates of riparian evapotranspiration using remote and in situ measurements. *Agricultural and Forest Meteorology*, **2000**, 105, 281-309	5.8	87
12	Modeling multiyear observations of soil moisture recharge in the semiarid American Southwest. *Water Resources Research*, **2000**, 36, 2233-2247	5.4	105
11	Estimation of area-average sensible heat flux using a large-aperture scintillometer during the Semi-Arid Land-Surface-Atmosphere (SALSA) Experiment. *Water Resources Research*, **1999**, 35, 2505-2511	5.4	31

10	Timescales of Land Surface Evapotranspiration Response. *Journal of Climate*, **1997**, 10, 559-566	4.4	35
9	Effect of a Canopy Interception Reservoir on Hydrological Persistence in a General Circulation Model. *Journal of Climate*, **1995**, 8, 1917-1922	4.4	24
8	Land surface controls on afternoon precipitation diagnosed from observational data: uncertainties, confounding factors and the possible role of vegetation interception		2
7	Impacts of droughts and extreme temperature events on gross primary production and ecosystem respiration: a systematic assessment across ecosystems and climate zones		3
6	Reviews and syntheses: Turning the challenges of partitioning ecosystem evaporation and transpiration into opportunities		2
5	Precipitation legacy effects on dryland ecosystem carbon fluxes: direction, magnitude and biogeochemical carryovers		2
4	Quantification of terrestrial ecosystem carbon dynamics in the conterminous United States combining a process-based biogeochemical model and MODIS and AmeriFlux data		7
3	How do more extreme rainfall regimes affect ecosystem fluxes in seasonally water-limited Northern Hemisphere temperate shrublands and forests?		2
2	The water balance components of undisturbed tropical woodlands in the Brazilian Cerrado		2
1	Evaluation of an extreme-condition-inverse calibration remote sensing model for mapping energy balance fluxes in arid riparian areas		3