Susanne Schwinning

List of Publications by Citations

49 papers	6,227 citations	27 h-index	52 g-index
52 ext. papers	6,857 ext. citations	4.6 avg, IF	5.62 L-index

#	Paper	IF	Citations
49	Precipitation pulses and carbon fluxes in semiarid and arid ecosystems. *Oecologia*, **2004**, 141, 254-68	2.9	815
48	Convergence across biomes to a common rain-use efficiency. *Nature*, **2004**, 429, 651-4	50.4	786
47	Mechanisms determining the degree of size asymmetry in competition among plants. *Oecologia*, **1998**, 113, 447-455	2.9	713
46	Hierarchy of responses to resource pulses in arid and semi-arid ecosystems. *Oecologia*, **2004**, 141, 211-20	2.9	660
45	Assessing the Response of Terrestrial Ecosystems to Potential Changes in Precipitation. *BioScience*, **2003**, 53, 941	5.7	591
44	Resource pulses, species interactions, and diversity maintenance in arid and semi-arid environments. *Oecologia*, **2004**, 141, 236-53	2.9	505
43	Water use trade-offs and optimal adaptations to pulse-driven arid ecosystems. *Journal of Ecology*, **2001**, 89, 464-480	6	291
42	Deuterium enriched irrigation indicates different forms of rain use in shrub/grass species of the Colorado Plateau. *Oecologia*, **2002**, 130, 345-355	2.9	138
41	ECOHYDROLOGICAL CONTROL OF DEEP DRAINAGE IN ARID AND SEMIARID REGIONS. *Ecology*, **2005**, 86, 277-287	4.6	136
40	Analysis of the Coexistence Mechanisms for Grasses and Legumes in Grazing Systems. *Journal of Ecology*, **1996**, 84, 799	6	129
39	Summer and winter drought in a cold desert ecosystem (Colorado Plateau) part I: effects on soil water and plant water uptake. *Journal of Arid Environments*, **2005**, 60, 547-566	2.5	107
38	Dominant cold desert plants do not partition warm season precipitation by event size. *Oecologia*, **2003**, 136, 252-60	2.9	90
37	The water relations of two evergreen tree species in a karst savanna. *Oecologia*, **2008**, 158, 373-83	2.9	75
36	INTERSPECIFIC COMPETITION AND RESOURCE PULSE UTILIZATION IN A COLD DESERT COMMUNITY. *Ecology*, **2002**, 83, 2602-2616	4.6	73
35	The ecohydrology of roots in rocks. *Ecohydrology*, **2010**, 3, n/a-n/a	2.5	66
34	Summer and winter drought in a cold desert ecosystem (Colorado Plateau) part II: effects on plant carbon assimilation and growth. *Journal of Arid Environments*, **2005**, 61, 61-78	2.5	62
33	A Spatially Explicit Population Model of Stoloniferous N-Fixing Legumes in Mixed Pasture with Grass. *Journal of Ecology*, **1996**, 84, 815	6	60

32	Hydraulic responses to extreme drought conditions in three co-dominant tree species in shallow soil over bedrock. *Oecologia*, **2013**, 171, 819-30	2.9	58
31	Population Dynamic Consequences of Competitive Symmetry in Annual Plants. *Oikos*, **1995**, 72, 422	4	55
30	Energy balance and water use in a subtropical karst woodland on the Edwards Plateau, Texas. *Journal of Hydrology*, **2009**, 373, 426-435	6	53
29	Decomposition Analysis of Competitive Symmetry and Size Structure Dynamics. *Annals of Botany*, **1996**, 77, 47-58	4.1	53
28	The stability of grazing systems revisited: spatial models and the role of heterogeneity. *Functional Ecology*, **1999**, 13, 737-747	5.6	52
27	Water-storage capacity controls energy partitioning and water use in karst ecosystems on the Edwards Plateau, Texas. *Ecohydrology*, **2014**, 7, 127-138	2.5	43
26	Periodic Oscillations in an Ideal-Free Predator-Prey Distribution. *Oikos*, **1990**, 59, 85	4	37
25	Plant competition, temporal niches and implications for productivity and adaptability to climate change in water-limited environments. *Functional Ecology*, **2013**, 27, 886-897	5.6	30
24	Plant growth functions and possible spatial and temporal scaling errors in models of herbivory. *Grass and Forage Science*, **2001**, 56, 21-34	2.3	30
23	Effects of Nitrogen Deposition on an Arid Grassland in the Colorado Plateau Cold Desert. *Rangeland Ecology and Management*, **2005**, 58, 565-574	2.2	25
22	Small-scale variability in water storage and plant available water in shallow, rocky soils. *Plant and Soil*, **2014**, 385, 193-204	4.2	21
21	Do we need new rhizosphere models for rock-dominated landscapes?. *Plant and Soil*, **2013**, 362, 25-31	4.2	18
20	The influence of stream channels on distributions of Larrea tridentata and Ambrosia dumosa in the Mojave Desert, CA, USA: patterns, mechanisms and effects of stream redistribution. *Ecohydrology*, **2011**, 4, 12-25	2.5	18
19	Biogeography of woody encroachment: why is mesquite excluded from shallow soils?. *Ecohydrology* , **2009**, 2, 81-87	2.5	18
18	Effects of juniper removal and rainfall variation on tree transpiration in a semi-arid karst: evidence of complex water storage dynamics. *Hydrological Processes*, **2016**, 30, 4568-4581	3.3	18
17	Traits of an invasive grass conferring an early growth advantage over native grasses. *Journal of Plant Ecology*, **2016**, 9, 672-681	1.7	17
16	Tree Mortality After a Hot Drought: Distinguishing Density-Dependent and -Independent Drivers and Why It Matters. *Frontiers in Forests and Global Change*, **2019**, 2,	3.7	17
15	A novel approach for estimating groundwater use by plants in rock-dominated habitats. *Journal of Hydrology*, **2018**, 565, 760-769	6	14

14	Effects of Phenology at Burn Time on Post-Fire Recovery in an Invasive C4 Grass. *Restoration Ecology*, **2012**, 20, 756-763	3.1	14
13	Dynamics of heterogeneity in a grazed sward. **2000**, 289-315		12
12	Fire effects on invasive and native warm-season grass species in a North American grassland at a time of extreme drought. *Applied Vegetation Science*, **2015**, 18, 637-649	3.3	11
11	Accelerated development in Johnsongrass seedlings (Sorghum halepense) suppresses the growth of native grasses through size-asymmetric competition. *PLoS ONE*, **2017**, 12, e0176042	3.7	11
10	Using hydrogeochemical and ecohydrologic responses to understand epikarst process in semi-arid systems, Edwards plateau, Texas, USA. *Acta Carsologica*, **2013**, 42,	1.7	8
9	A 3-dimensional model of Pinus edulis and Juniperus monosperma root distributions in New Mexico: implications for soil water dynamics. *Plant and Soil*, **2020**, 450, 337-355	4.2	5
8	Seedling responses to water pulses in shrubs with contrasting histories of grassland encroachment. *PLoS ONE*, **2014**, 9, e87278	3.7	5
7	Seedling Ecology and Restoration of Blackbrush (Coleogyne ramosissima) in the Mojave Desert, United States. *Restoration Ecology*, **2014**, 22, 692-700	3.1	5
6	Comparative Seed Heat Tolerances Among Native and Non-indigenous Invasive Grassland Species. *Ecological Restoration*, **2012**, 30, 136-142		4
5	A critical question for the critical zone: how do plants use rock water?. *Plant and Soil*, **2020**, 454, 49-56	4.2	4
4	Modeling forage mediated aggregation in a gregarious ruminant. *Oikos*, **2013**, 122, 929-937	4	3
3	Local climate adaptations in two ubiquitous Mojave Desert shrub species, Ambrosia dumosa and Larrea tridentata. *Journal of Ecology*,	6	2
2	Temporal niches, ecosystem function and climate change165-188		1
1	What temporal processes in trees tell us about competition, community structure and speciation41-81		