

Michael E Loik

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

5,559
citations

136885

32
h-index

123376

61
g-index

65
all docs

65
docs citations

65
times ranked

6869
citing authors

#	ARTICLE	IF	CITATIONS
1	Convergence across biomes to a common rain-use efficiency. <i>Nature</i> , 2004, 429, 651-654.	13.7	968
2	Assessing the Response of Terrestrial Ecosystems to Potential Changes in Precipitation. <i>BioScience</i> , 2003, 53, 941.	2.2	680
3	A multi-scale perspective of water pulses in dryland ecosystems: climatology and ecohydrology of the western USA. <i>Oecologia</i> , 2004, 141, 269-281.	0.9	459
4	An Evolutionary Approach to Understanding the Biology of Invasions: Local Adaptation and General-Purpose Genotypes in the Weed <i>Verbascum thapsus</i> . <i>Conservation Biology</i> , 2003, 17, 59-72.	2.4	326
5	Quantifying ecological memory in plant and ecosystem processes. <i>Ecology Letters</i> , 2015, 18, 221-235.	3.0	324
6	Thresholds, memory, and seasonality: understanding pulse dynamics in arid/semi-arid ecosystems. <i>Oecologia</i> , 2004, 141, 191-193.	0.9	309
7	Characterizing differences in precipitation regimes of extreme wet and dry years: implications for climate change experiments. <i>Global Change Biology</i> , 2015, 21, 2624-2633.	4.2	233
8	Pushing precipitation to the extremes in distributed experiments: recommendations for simulating wet and dry years. <i>Global Change Biology</i> , 2017, 23, 1774-1782.	4.2	132
9	Title is missing!. <i>Plant Ecology</i> , 2000, 148, 183-193.	0.7	131
10	Tropicalization of temperate ecosystems in North America: The northward range expansion of tropical organisms in response to warming winter temperatures. <i>Global Change Biology</i> , 2021, 27, 3009-3034.	4.2	108
11	The temperature responses of soil respiration in deserts: a seven desert synthesis. <i>Biogeochemistry</i> , 2011, 103, 71-90.	1.7	101
12	Differential daytime and nighttime stomatal behavior in plants from North American deserts. <i>New Phytologist</i> , 2012, 194, 464-476.	3.5	99
13	Genetic variation in circadian regulation of nocturnal stomatal conductance enhances carbon assimilation and growth. <i>Plant, Cell and Environment</i> , 2016, 39, 3-11.	2.8	93
14	Wavelength-Selective Solar Photovoltaic Systems: Powering Greenhouses for Plant Growth at the Food-Energy-Water Nexus. <i>Earth's Future</i> , 2017, 5, 1044-1053.	2.4	90
15	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. <i>Oecologia</i> , 2007, 151, 704-718.	0.9	80
16	Utilizing intraspecific variation in phenotypic plasticity to bolster agricultural and forest productivity under climate change. <i>Plant, Cell and Environment</i> , 2015, 38, 1752-1764.	2.8	74
17	Gas exchange and chlorophyll fluorescence responses of three south-western <i>Yucca</i> species to elevated CO ₂ and high temperature. <i>Plant, Cell and Environment</i> , 1998, 21, 1275-1283.	2.8	69
18	Photosynthetic responses of Mojave Desert shrubs to free air CO ₂ enrichment are greatest during wet years. <i>Global Change Biology</i> , 2003, 9, 276-285.	4.2	69

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19	Photosynthetic responses to a climate-warming manipulation for contrasting meadow species in the Rocky Mountains, Colorado, USA. <i>Functional Ecology</i> , 2000, 14, 166-175.	1.7	66
20	Sensitivity of water relations and photosynthesis to summer precipitation pulses for <i>Artemisia tridentata</i> and <i>Purshia tridentata</i> . <i>Plant Ecology</i> , 2007, 191, 95-108.	0.7	63
21	Effects of Changing Climate on the Hydrological Cycle in Cold Desert Ecosystems of the Great Basin and Columbia Plateau. <i>Rangeland Ecology and Management</i> , 2019, 72, 1-12.	1.1	59
22	In situ photosynthetic freezing tolerance for plants exposed to a global warming manipulation in the Rocky Mountains, Colorado, USA. <i>New Phytologist</i> , 2004, 162, 331-341.	3.5	56
23	Global change effects on <i>Bromus tectorum</i> (<i>Poaceae</i>) at its high elevation range margin. <i>Global Change Biology</i> , 2013, 19, 161-172.	4.2	52
24	Reproductive and physiological responses to simulated climate warming for four subalpine species. <i>New Phytologist</i> , 2007, 173, 121-134.	3.5	46
25	Differential responses of soil bacteria and fungi to altered precipitation in a meadow steppe. <i>Geoderma</i> , 2021, 384, 114812.	2.3	45
26	Photosynthetic Responses to Light for Rainforest Seedlings Planted in Abandoned Pasture, Costa Rica. <i>Restoration Ecology</i> , 1999, 7, 382-391.	1.4	44
27	Effects of climate and snow depth on <i>Bromus tectorum</i> population dynamics at high elevation. <i>Oecologia</i> , 2010, 164, 821-832.	0.9	42
28	Freezing Tolerance and Water Relations of <i>Opuntia Fragilis</i> from Canada and the United States. <i>Ecology</i> , 1993, 74, 1722-1732.	1.5	41
29	High-temperature tolerance of <i>Artemisia tridentata</i> and <i>Potentilla gracilis</i> under a climate change manipulation. <i>Oecologia</i> , 1996, 108, 224-231.	0.9	41
30	Photosynthetic responses of tree seedlings in grass and under shrubs in early-successional tropical old fields, Costa Rica. <i>Oecologia</i> , 2001, 127, 40-50.	0.9	41
31	Influence of summer marine fog and low cloud stratus on water relations of evergreen woody shrubs (<i>Arctostaphylos: Ericaceae</i>) in the chaparral of central California. <i>Oecologia</i> , 2012, 170, 325-337.	0.9	40
32	Changes in water relations for leaves exposed to a climate-warming manipulation in the Rocky Mountains of Colorado. <i>Environmental and Experimental Botany</i> , 1997, 37, 115-123.	2.0	37
33	Nitrogen Addition Increases the Sensitivity of Photosynthesis to Drought and Re-watering Differentially in C3 Versus C4 Grass Species. <i>Frontiers in Plant Science</i> , 2019, 10, 815.	1.7	34
34	Title is missing!. <i>Plant Ecology</i> , 2000, 146, 195-204.	0.7	32
35	Microclimate, freezing tolerance, and cold acclimation along an elevation gradient for seedlings of the Great Basin Desert shrub, <i>Artemisia tridentata</i> . <i>Journal of Arid Environments</i> , 2003, 54, 769-782.	1.2	32
36	Light-limited photosynthesis under energy-saving film decreases eggplant yield. <i>Food and Energy Security</i> , 2020, 9, e245.	2.0	31

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37	Photosynthetic responses of <i>Larrea tridentata</i> to seasonal temperature extremes under elevated CO ₂ . <i>New Phytologist</i> , 2004, 162, 323-330.	3.5	29
38	Water relations and mucopolysaccharide increases for a winter hardy cactus during acclimation to subzero temperatures. <i>Oecologia</i> , 1991, 88, 340-346.	0.9	27
39	Low temperature tolerance and cold acclimation for seedlings of three Mojave Desert <i>Yucca</i> species exposed to elevated CO ₂ . <i>Journal of Arid Environments</i> , 2000, 46, 43-56.	1.2	27
40	Impacts of long-term snow climate change on a high-elevation cold desert shrubland, California, USA. <i>Plant Ecology</i> , 2013, 214, 255-266.	0.7	23
41	Variation in phenotypic plasticity for native and invasive populations of <i>Bromus tectorum</i> . <i>Biological Invasions</i> , 2014, 16, 2627-2638.	1.2	23
42	Exogenous Abscisic Acid Mimics Cold Acclimation for Cacti Differing in Freezing Tolerance. <i>Plant Physiology</i> , 1993, 103, 871-876.	2.3	22
43	The relative importance of climate change and the physiological effects of CO ₂ on freezing tolerance for the future distribution of <i>Yucca brevifolia</i> . <i>Global and Planetary Change</i> , 2003, 36, 137-146.	1.6	22
44	The effect of cactus spines on light interception and Photosystem II for three sympatric species of <i>Opuntia</i> from the Mojave Desert. <i>Physiologia Plantarum</i> , 2008, 134, 87-98.	2.6	22
45	Coastal low cloudiness and fog enhance crop water use efficiency in a California agricultural system. <i>Agricultural and Forest Meteorology</i> , 2018, 252, 109-120.	1.9	22
46	Combined drought and episodic freezing effects on seedlings of low- and high-elevation subspecies of sagebrush (<i>Artemisia tridentata</i>). <i>Physiologia Plantarum</i> , 2007, 130, 207-217.	2.6	21
47	Photosynthesis and carbon allocation are both important predictors of genotype productivity responses to elevated CO ₂ in <i>Eucalyptus camaldulensis</i> . <i>Tree Physiology</i> , 2018, 38, 1286-1301.	1.4	21
48	Water relations and photosynthesis along an elevation gradient for <i>Artemisia tridentata</i> during an historic drought. <i>Oecologia</i> , 2016, 181, 65-76.	0.9	19
49	Drought-Net rainfall shelters did not cause nondrought effects on photosynthesis for California central coast plants. <i>Ecohydrology</i> , 2019, 12, e2138.	1.1	19
50	Microhabitat and Diel Tissue Acidity Changes for Two Sympatric Cactus Species Differing in Growth Habit. <i>Journal of Ecology</i> , 1991, 79, 167.	1.9	18
51	Elevated nitrogen effects on <i>Bromus tectorum</i> dominance and native plant diversity in an arid montane ecosystem. <i>Applied Vegetation Science</i> , 2013, 16, 598-609.	0.9	16
52	Leaf traits and phylogeny explain plant survival and community dynamics in response to extreme drought in a restored coastal grassland. <i>Journal of Applied Ecology</i> , 2021, 58, 1670-1680.	1.9	14
53	Maritime climate influence on chaparral composition and diversity in the coast range of central California. <i>Ecology and Evolution</i> , 2014, 4, 3662-3674.	0.8	12
54	Plant Uptake of Atmospheric Carbonyl Sulfide in Coast Redwood Forests. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 3391-3404.	1.3	11

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55	Water and Light Use Efficiency Are Enhanced Under Summer Coastal Fog in a California Agricultural System. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006193.	1.3	11
56	Impact of intra- versus inter-annual snow depth variation on water relations and photosynthesis for two Great Basin Desert shrubs. <i>Oecologia</i> , 2015, 178, 403-414.	0.9	8
57	Simulating International Drought Experiment field observations using the Community Land Model. <i>Agricultural and Forest Meteorology</i> , 2019, 266-267, 173-183.	1.9	8
58	Adjustments in physiological and morphological traits suggest drought-induced competitive release of some California plants. <i>Ecology and Evolution</i> , 2022, 12, e8773.	0.8	7
59	Relationships between climate of origin and photosynthetic responses to an episodic heatwave depend on growth CO ₂ concentration for <i>Eucalyptus camaldulensis</i> var. <i>camaldulensis</i> . <i>Functional Plant Biology</i> , 2017, 44, 1053.	1.1	4
60	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
61	Photosynthesis of seedlings of <i>Otoba novogranatensis</i> (Myristicaceae) and <i>Ruagea glabra</i> (Meliaceae) in abandoned pasture, secondary forest and plantation habitats in Costa Rica. <i>Revista De Biologia Tropical</i> , 2013, 61, 1493-507.	0.1	1
62	There's no place like home. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 318-318.	1.9	0
63	Photosynthetic sensitivity to historic meteorological variability for conifers in the eastern Sierra Nevada. <i>International Journal of Biometeorology</i> , 2021, 65, 851-863.	1.3	0