

Joel A Biederman

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

2,479
citations

257101

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205818

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docs citations

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times ranked

3147
citing authors

#	ARTICLE	IF	CITATIONS
1	Heavy rainfall in peak growing season had larger effects on soil nitrogen flux and pool than in the late season in a semiarid grassland. <i>Agriculture, Ecosystems and Environment</i> , 2022, 326, 107785.	2.5	4
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	Soil moisture response to seasonal drought conditions and post-thinning forest structure. <i>Ecohydrology</i> , 2022, 15, .	1.1	12
5	Drought timing influences the sensitivity of a semiarid grassland to drought. <i>Geoderma</i> , 2022, 412, 115714.	2.3	13
6	Joint control by soil moisture, functional genes and substrates on response of N ₂ O flux to climate extremes in a semiarid grassland. <i>Agricultural and Forest Meteorology</i> , 2022, 316, 108854.	1.9	5
7	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
8	Precipitation temporal repackaging into fewer, larger storms delayed seasonal timing of peak photosynthesis in a semi-arid grassland. <i>Functional Ecology</i> , 2022, 36, 646-658.	1.7	6
9	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
10	Drought and heat wave impacts on grassland carbon cycling across hierarchical levels. <i>Plant, Cell and Environment</i> , 2021, 44, 2402-2413.	2.8	22
11	Water Availability Impacts on Evapotranspiration Partitioning. <i>Agricultural and Forest Meteorology</i> , 2021, 297, 108251.	1.9	39
12	UAV-Based Estimate of Snow Cover Dynamics: Optimizing Semi-Arid Forest Structure for Snow Persistence. <i>Remote Sensing</i> , 2021, 13, 1036.	1.8	10
13	Five Decades of Observed Daily Precipitation Reveal Longer and More Variable Drought Events Across Much of the Western United States. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092293.	1.5	70
14	Nonlinear carbon cycling responses to precipitation variability in a semiarid grassland. <i>Science of the Total Environment</i> , 2021, 781, 147062.	3.9	9
15	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
16	Winter Inputs Buffer Streamflow Sensitivity to Snowpack Losses in the Salt River Watershed in the Lower Colorado River Basin. <i>Water (Switzerland)</i> , 2021, 13, 3.	1.2	18
17	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
18	Improved dryland carbon flux predictions with explicit consideration of water-carbon coupling. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	16

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19	Montane forest productivity across a semiarid climatic gradient. <i>Global Change Biology</i> , 2020, 26, 6945-6958.	4.2	22
20	Winter CO ₂ Efflux From Sagebrush Shrublands Distributed Across the Rain-to-Snow Transition Zone. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005325.	1.3	2
21	Forest cover and topography regulate the thin, ephemeral snowpacks of the semiarid Southwest United States. <i>Ecohydrology</i> , 2020, 13, e2202.	1.1	14
22	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
23	Remote sensing of dryland ecosystem structure and function: Progress, challenges, and opportunities. <i>Remote Sensing of Environment</i> , 2019, 233, 111401.	4.6	193
24	Native shrubland and managed buffelgrass savanna in drylands: Implications for ecosystem carbon and water fluxes. <i>Agricultural and Forest Meteorology</i> , 2019, 268, 269-278.	1.9	16
25	Improving Snow Water Equivalent Maps With Machine Learning of Snow Survey and Lidar Measurements. <i>Water Resources Research</i> , 2019, 55, 3739-3757.	1.7	65
26	Ecological responses to heavy rainfall depend on seasonal timing and multi-year recurrence. <i>New Phytologist</i> , 2019, 223, 647-660.	3.5	41
27	Critical Zone Water Balance Over 13 Years in a Semiarid Savanna. <i>Water Resources Research</i> , 2019, 55, 574-588.	1.7	49
28	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
29	The AmeriFlux network: A coalition of the willing. <i>Agricultural and Forest Meteorology</i> , 2018, 249, 444-456.	1.9	140
30	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
31	Seasonal timing regulates extreme drought impacts on CO ₂ and H ₂ O exchanges over semiarid steppes in Inner Mongolia, China. <i>Agriculture, Ecosystems and Environment</i> , 2018, 266, 153-166.	2.5	20
32	CO ₂ exchange and evapotranspiration across dryland ecosystems of southwestern North America. <i>Global Change Biology</i> , 2017, 23, 4204-4221.	4.2	164
33	Repackaging precipitation into fewer, larger storms reduces ecosystem exchanges of CO ₂ and H ₂ O in a semiarid steppe. <i>Agricultural and Forest Meteorology</i> , 2017, 247, 356-364.	1.9	43
34	Partitioning evapotranspiration using long-term carbon dioxide and water vapor fluxes. <i>Geophysical Research Letters</i> , 2017, 44, 6833-6840.	1.5	104
35	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
36	Riparian zones attenuate nitrogen loss following bark beetle-induced lodgepole pine mortality. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 933-948.	1.3	9

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37	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
38	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
39	Quantifying the effects of vegetation structure on snow accumulation and ablation in mixed-conifer forests. <i>Ecohydrology</i> , 2015, 8, 1073-1094.	1.1	124
40	Multiscale observations of snow accumulation and peak snowpack following widespread, insect-induced lodgepole pine mortality. <i>Ecohydrology</i> , 2014, 7, 150-162.	1.1	88
41	Increased evaporation following widespread tree mortality limits streamflow response. <i>Water Resources Research</i> , 2014, 50, 5395-5409.	1.7	87
42	Changes in snow accumulation and ablation following the Las Conchas Forest Fire, New Mexico, USA. <i>Ecohydrology</i> , 2014, 7, 440-452.	1.1	108
43	Evaluation of Characterization Techniques for Iron Pipe Corrosion Products and Iron Oxide Thin Films. <i>Journal of Environmental Engineering, ASCE</i> , 2008, 134, 835-844.	0.7	19
44	On fitting the $k-C^*$ first order model to batch loaded sub-surface treatment wetlands. <i>Water Science and Technology</i> , 2007, 56, 93-99.	1.2	41
45	Plant species and temperature effects on the $k-C^*$ first-order model for COD removal in batch-loaded SSF wetlands. <i>Ecological Engineering</i> , 2006, 26, 100-112.	1.6	61
46	Temperature and Wetland Plant Species Effects on Wastewater Treatment and Root Zone Oxidation. <i>Journal of Environmental Quality</i> , 2002, 31, 1010-1016.	1.0	123
47	Minimizing biofilm in the presence of iron oxides and humic substances. <i>Water Research</i> , 2002, 36, 3898-3910.	5.3	34
48	Modified enzyme activity assay to determine biofilm biomass. <i>Journal of Microbiological Methods</i> , 2002, 50, 23-31.	0.7	11
49	Performance Data from Model Constructed Wetlands for Wastewater Treatment. , 1998, , 949.		5