## Joel A Biederman

List of Publications by Year in descending order

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#	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. Agriculture, Ecosystems and Environment, 2022, 326, 107785.	5.3	4
2	A micrometeorological flux perspective on brush management in a shrub-encroached Sonoran Desert grassland. Agricultural and Forest Meteorology, 2022, 313, 108763.	4.8	3
3	Satellite solar-induced chlorophyll fluorescence and near-infrared reflectance capture complementary aspects of dryland vegetation productivity dynamics. Remote Sensing of Environment, 2022, 270, 112858.	11.0	26
4	Soil moisture response to seasonal drought conditions and postâ€ŧhinning forest structure. Ecohydrology, 2022, 15, .	2.4	12
5	Drought timing influences the sensitivity of a semiarid grassland to drought. Geoderma, 2022, 412, 115714.	5.1	13
6	Joint control by soil moisture, functional genes and substrates on response of N2O flux to climate extremes in a semiarid grassland. Agricultural and Forest Meteorology, 2022, 316, 108854.	4.8	5
7	Streamflow Response to Wildfire Differs With Season and Elevation in Adjacent Headwaters of the Lower Colorado River Basin. Water Resources Research, 2022, 58, .	4.2	10
8	Precipitation temporal repackaging into fewer, larger storms delayed seasonal timing of peak photosynthesis in a semiâ€arid grassland. Functional Ecology, 2022, 36, 646-658.	3.6	6
9	Exceptional heat and atmospheric dryness amplified losses of primary production during the 2020 U.S. Southwest hot drought. Global Change Biology, 2022, 28, 4794-4806.	9.5	46
10	Drought and heat wave impacts on grassland carbon cycling across hierarchical levels. Plant, Cell and Environment, 2021, 44, 2402-2413.	5.7	22
11	Water Availability Impacts on Evapotranspiration Partitioning. Agricultural and Forest Meteorology, 2021, 297, 108251.	4.8	39
12	UAV-Based Estimate of Snow Cover Dynamics: Optimizing Semi-Arid Forest Structure for Snow Persistence. Remote Sensing, 2021, 13, 1036.	4.0	10
13	Five Decades of Observed Daily Precipitation Reveal Longer and More Variable Drought Events Across Much of the Western United States. Geophysical Research Letters, 2021, 48, e2020GL092293.	4.0	70
14	Nonlinear carbon cycling responses to precipitation variability in a semiarid grassland. Science of the Total Environment, 2021, 781, 147062.	8.0	9
15	Dynamic global vegetation models underestimate net CO <sub>2</sub> flux mean and inter-annual variability in dryland ecosystems. Environmental Research Letters, 2021, 16, 094023.	5.2	23
16	Winter Inputs Buffer Streamflow Sensitivity to Snowpack Losses in the Salt River Watershed in the Lower Colorado River Basin. Water (Switzerland), 2021, 13, 3.	2.7	18
17	Optimizing Carbon Cycle Parameters Drastically Improves Terrestrial Biosphere Model Underestimates of Dryland Mean Net CO <sub>2</sub> Flux and its Interâ€Annual Variability. Journal of Geophysical Research G: Biogeosciences, 2021, 126, .	3.0	8
18	Improved dryland carbon flux predictions with explicit consideration of water-carbon coupling. Communications Earth & Environment, 2021, 2, .	6.8	16

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19	Montane forest productivity across a semiarid climatic gradient. Global Change Biology, 2020, 26, 6945-6958.	9.5	22
20	Winter CO 2 Efflux From Sagebrush Shrublands Distributed Across the Rainâ€to‣now Transition Zone. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005325.	3.0	2
21	Forest cover and topography regulate the thin, ephemeral snowpacks of the semiarid Southwest United States. Ecohydrology, 2020, 13, e2202.	2.4	14
22	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.	4.9	16
23	Remote sensing of dryland ecosystem structure and function: Progress, challenges, and opportunities. Remote Sensing of Environment, 2019, 233, 111401.	11.0	193
24	Native shrubland and managed buffelgrass savanna in drylands: Implications for ecosystem carbon and water fluxes. Agricultural and Forest Meteorology, 2019, 268, 269-278.	4.8	16
25	Improving Snow Water Equivalent Maps With Machine Learning of Snow Survey and Lidar Measurements. Water Resources Research, 2019, 55, 3739-3757.	4.2	65
26	Ecological responses to heavy rainfall depend on seasonal timing and multiâ€year recurrence. New Phytologist, 2019, 223, 647-660.	7.3	41
27	Critical Zone Water Balance Over 13ÂYears in a Semiarid Savanna. Water Resources Research, 2019, 55, 574-588.	4.2	49
28	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.	4.0	109
29	The AmeriFlux network: A coalition of the willing. Agricultural and Forest Meteorology, 2018, 249, 444-456.	4.8	140
30	Shrubland carbon sink depends upon winter water availability in the warm deserts of North America. Agricultural and Forest Meteorology, 2018, 249, 407-419.	4.8	49
31	Seasonal timing regulates extreme drought impacts on CO2 and H2O exchanges over semiarid steppes in Inner Mongolia, China. Agriculture, Ecosystems and Environment, 2018, 266, 153-166.	5.3	20
32	<scp>CO</scp> <sub>2</sub> exchange and evapotranspiration across dryland ecosystems of southwestern North America. Global Change Biology, 2017, 23, 4204-4221.	9.5	164
33	Repackaging precipitation into fewer, larger storms reduces ecosystem exchanges of CO 2 and H 2 O in a semiarid steppe. Agricultural and Forest Meteorology, 2017, 247, 356-364.	4.8	43
34	Partitioning evapotranspiration using longâ€ŧerm carbon dioxide and water vapor fluxes. Geophysical Research Letters, 2017, 44, 6833-6840.	4.0	104
35	Terrestrial carbon balance in a drier world: the effects of water availability in southwestern North America. Global Change Biology, 2016, 22, 1867-1879.	9.5	142
36	Riparian zones attenuate nitrogen loss following bark beetleâ€induced lodgepole pine mortality. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 933-948.	3.0	9

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37	Recent tree dieâ€off has little effect on streamflow in contrast to expected increases from historical studies. Water Resources Research, 2015, 51, 9775-9789.	4.2	97
38	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.	3.0	142
39	Quantifying the effects of vegetation structure on snow accumulation and ablation in mixedâ€conifer forests. Ecohydrology, 2015, 8, 1073-1094.	2.4	124
40	Multiscale observations of snow accumulation and peak snowpack following widespread, insectâ€induced lodgepole pine mortality. Ecohydrology, 2014, 7, 150-162.	2.4	88
41	Increased evaporation following widespread tree mortality limits streamflow response. Water Resources Research, 2014, 50, 5395-5409.	4.2	87
42	Changes in snow accumulation and ablation following the Las Conchas Forest Fire, New Mexico, USA. Ecohydrology, 2014, 7, 440-452.	2.4	108
43	Evaluation of Characterization Techniques for Iron Pipe Corrosion Products and Iron Oxide Thin Films. Journal of Environmental Engineering, ASCE, 2008, 134, 835-844.	1.4	19
44	On fitting the k-C* first order model to batch loaded sub-surface treatment wetlands. Water Science and Technology, 2007, 56, 93-99.	2.5	41
45	Plant species and temperature effects on the k–C* first-order model for COD removal in batch-loaded SSF wetlands. Ecological Engineering, 2006, 26, 100-112.	3.6	61
46	Temperature and Wetland Plant Species Effects on Wastewater Treatment and Root Zone Oxidation. Journal of Environmental Quality, 2002, 31, 1010-1016.	2.0	123
47	Minimizing biofilm in the presence of iron oxides and humic substances. Water Research, 2002, 36, 3898-3910.	11.3	34
48	Modified enzyme activity assay to determine biofilm biomass. Journal of Microbiological Methods, 2002, 50, 23-31.	1.6	11
49	Performance Data from Model Constructed Wetlands for Wastewater Treatment. , 1998, , 949.		5