

Chris B Zou

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

4,673
citations

147726

31
h-index

106281

65
g-index

94
all docs

94
docs citations

94
times ranked

5936
citing authors

#	ARTICLE	IF	CITATIONS
1	Response of sediment concentration and load to removal of juniper woodland and subsequent establishment of grasslands – A paired experimental watershed study. <i>Catena</i> , 2022, 209, 105816.	2.2	3
2	Response of Surface Runoff and Sediment to the Conversion of a Marginal Grassland to a Switchgrass (<i>Panicum virgatum</i>) Bioenergy Feedstock System. <i>Land</i> , 2022, 11, 540.	1.2	2
3	Interactive effect of climate warming and nitrogen deposition may shift the dynamics of native and invasive species. <i>Journal of Plant Ecology</i> , 2021, 14, 84-95.	1.2	27
4	Improved productivity, water yield, and water use efficiency by incorporating switchgrass cultivation and native ecosystems in an integrated biofuel feedstock system. <i>GCB Bioenergy</i> , 2021, 13, 369-381.	2.5	6
5	Isotopic partitioning of evapotranspiration in a mesic grassland during two wetting–drying episodes. <i>Agricultural and Forest Meteorology</i> , 2021, 301-302, 108321.	1.9	4
6	Management and climate variability effects on understory productivity of forest and savanna ecosystems in Oklahoma, USA. <i>Ecosphere</i> , 2021, 12, e03576.	1.0	4
7	Effects of climate variability and management on shortleaf pine radial growth across a forest-savanna continuum in a 34-year experiment. <i>Forest Ecology and Management</i> , 2021, 491, 119125.	1.4	4
8	Estimating root zone soil moisture across diverse land cover types by integrating in-situ and remotely sensed data. <i>Agricultural and Forest Meteorology</i> , 2021, 307, 108471.	1.9	9
9	Stand-Level Transpiration Increases after Eastern Redcedar (<i>Juniperus virginiana</i> L.) Encroachment into the Midstory of Oak Forests. <i>Forests</i> , 2020, 11, 901.	0.9	10
10	Drought Tolerance and Competition in Eastern Redcedar (<i>Juniperus virginiana</i>) Encroachment of the Oak-Dominated Cross Timbers. <i>Frontiers in Plant Science</i> , 2020, 11, 59.	1.7	10
11	The effect of nitrogen and temperature changes on <i>Solidago canadensis</i> phenotypic plasticity and fitness. <i>Plant Species Biology</i> , 2020, 35, 283-299.	0.6	22
12	Conversion of encroached juniper woodland back to native prairie and to switchgrass increases root zone soil moisture and watershed runoff. <i>Journal of Hydrology</i> , 2020, 584, 124640.	2.3	9
13	Effects of <i>Solidago canadensis</i> Invasion and Climate Warming on Soil Net N Mineralization. <i>Polish Journal of Environmental Studies</i> , 2020, 29, 3285-3294.	0.6	9
14	Managing environmental contamination through phytoremediation by invasive plants: A review. <i>Ecological Engineering</i> , 2019, 138, 28-37.	1.6	99
15	The enhancement of root biomass increases the competitiveness of an invasive plant against a co-occurring native plant under elevated nitrogen deposition. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2019, 261, 151486.	0.6	35
16	Sustaining Cross-Timbers Forest Resources: Current Knowledge and Future Research Needs. <i>Sustainability</i> , 2019, 11, 4703.	1.6	12
17	Evapotranspiration partitioning in dryland ecosystems: A global meta-analysis of in situ studies. <i>Journal of Hydrology</i> , 2019, 576, 123-136.	2.3	52
18	Understanding Market Opportunities Utilizing the Forest Resources of the Cross-timbers Ecoregion. <i>Journal of Forestry</i> , 2019, 117, 234-243.	0.5	5

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19	Establishment of <i>Quercus marilandica</i> Muenchh. and <i>Juniperus virginiana</i> L. in the Tallgrass Prairie of Oklahoma, USA Increases Litter Inputs and Soil Organic Carbon. <i>Forests</i> , 2019, 10, 329.	0.9	11
20	Elevated nitrogen deposition may advance invasive weed, <i>Solidago canadensis</i> , in calcareous soils. <i>Journal of Plant Ecology</i> , 2019, 12, 846-856.	1.2	18
21	Interactive Effect of Meteorological Drought and Vegetation Types on Root Zone Soil Moisture and Runoff in Rangeland Watersheds. <i>Water (Switzerland)</i> , 2019, 11, 2357.	1.2	6
22	Effect of Vegetation on the Energy Balance and Evapotranspiration in Tallgrass Prairie: A Paired Study Using the Eddy-Covariance Method. <i>Boundary-Layer Meteorology</i> , 2019, 170, 127-160.	1.2	21
23	Perceptions regarding active management of the Cross-timbers forest resources of Oklahoma, Texas, and Kansas: A SWOT-ANP analysis. <i>Land Use Policy</i> , 2019, 81, 523-530.	2.5	33
24	Bioclimatic Envelopes for Individual Demographic Events Driven by Extremes: Plant Mortality from Drought and Warming. <i>International Journal of Plant Sciences</i> , 2019, 180, 53-62.	0.6	25
25	Physiological regulation of poplar species to experimental warming differs between species with contrasting elevation ranges. <i>New Forests</i> , 2018, 49, 329-340.	0.7	5
26	Legacy effects of historical grazing affect the response of vegetation dynamics to water and nitrogen addition in semi-arid steppe. <i>Applied Vegetation Science</i> , 2018, 21, 229-239.	0.9	14
27	Phosphorus addition reduces the competitive ability of the invasive weed <i>Solidago canadensis</i> under high nitrogen conditions. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2018, 240, 68-75.	0.6	24
28	Estimating increased fuel loading within the Cross Timbers forest matrix of Oklahoma, USA due to an encroaching conifer, <i>Juniperus virginiana</i> , using leaf-off satellite imagery. <i>Forest Ecology and Management</i> , 2018, 409, 215-224.	1.4	23
29	Growth responses of Canada goldenrod (<i>Solidago canadensis</i> L.) to increased nitrogen supply correlate with bioavailability of insoluble phosphorus source. <i>Ecological Research</i> , 2018, 33, 261-269.	0.7	18
30	Long-term effects of nitrogen fertilization on aggregation and localization of carbon, nitrogen and microbial activities in soil. <i>Science of the Total Environment</i> , 2018, 624, 1131-1139.	3.9	60
31	Impact of Climate Variability and Landscape Patterns on Water Budget and Nutrient Loads in a Peri-urban Watershed: A Coupled Analysis Using Process-based Hydrological Model and Landscape Indices. <i>Environmental Management</i> , 2018, 61, 954-967.	1.2	19
32	Impact of Eastern Redcedar Proliferation on Water Resources in the Great Plains USA—Current State of Knowledge. <i>Water (Switzerland)</i> , 2018, 10, 1768.	1.2	33
33	Encroachment Dynamics of <i>Juniperus virginiana</i> L. and Mesic Hardwood Species into Cross Timbers Forests of North-Central Oklahoma, USA. <i>Forests</i> , 2018, 9, 75.	0.9	26
34	Perceptions of Government and Research Expert Groups and Their Implications for Watershed Management in Oklahoma, USA. <i>Environmental Management</i> , 2018, 62, 1048-1059.	1.2	3
35	Woody Plant Encroachment Impacts on Groundwater Recharge: A Review. <i>Water (Switzerland)</i> , 2018, 10, 1466.	1.2	45
36	Viewing Woody-Plant Encroachment through a Social Ecological Lens. <i>BioScience</i> , 2018, 68, 691-705.	2.2	37

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37	The mutual restraint effect between the expansion of <i>Alternanthera philoxeroides</i> (Mart.) Griseb and cadmium mobility in aquatic environment. <i>Ecotoxicology and Environmental Safety</i> , 2018, 148, 237-243.	2.9	11
38	Hydrological properties of litter layers in mixed forests in Mt. Qinling, China. <i>IForest</i> , 2018, 11, 243-250.	0.5	10
39	Analysis of Precipitation Projections over the Climate Gradient of the Arkansas Red River Basin. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 1325-1336.	0.6	13
40	Vegetation Controls on the Spatio-Temporal Heterogeneity of Deep Moisture in the Unsaturated Zone: A Hydrogeophysical Evaluation. <i>Scientific Reports</i> , 2017, 7, 1499.	1.6	19
41	Woody plant encroachment alters soil hydrological properties and reduces downward flux of water in tallgrass prairie. <i>Plant and Soil</i> , 2017, 414, 379-391.	1.8	28
42	Monitoring litter interception of rainfall using leaf wetness sensor under controlled and field conditions. <i>Hydrological Processes</i> , 2017, 31, 240-249.	1.1	36
43	Impact of Plant Functional Types on Coherence Between Precipitation and Soil Moisture: A Wavelet Analysis. <i>Geophysical Research Letters</i> , 2017, 44, 12,197.	1.5	31
44	On the teleconnection patterns to precipitation in the eastern Tianshan Mountains, China. <i>Climate Dynamics</i> , 2017, 49, 3123-3139.	1.7	23
45	Local-scale correlates of native and non-native earthworm distributions in juniper-encroached tallgrass prairie. <i>Biological Invasions</i> , 2017, 19, 1621-1635.	1.2	4
46	Aboveground Biomass Invariance Masks Significant Belowground Productivity Changes in Response to Salinization and Nitrogen Loading in Reed Marshes. <i>Wetlands</i> , 2017, 37, 985-995.	0.7	11
47	The influence of large-scale climate phenomena on precipitation in the Ordos Basin, China. <i>Theoretical and Applied Climatology</i> , 2017, 130, 791-805.	1.3	5
48	Woody plant encroachment reduces annual runoff and shifts runoff mechanisms in the tallgrass prairie, <sc>U</sc>SA. <i>Water Resources Research</i> , 2017, 53, 4838-4849.	1.7	41
49	Effects of grazing exclusion on carbon sequestration and plant diversity in grasslands of Chinaâ€”A meta-analysis. <i>Ecological Engineering</i> , 2016, 94, 647-655.	1.6	148
50	Woodland expansion in central Oklahoma will significantly reduce streamflows â€” a modelling analysis. <i>Ecohydrology</i> , 2016, 9, 807-816.	1.1	21
51	Pyric-herbivory and Hydrological Responses in Tallgrass Prairie. <i>Rangeland Ecology and Management</i> , 2016, 69, 20-27.	1.1	7
52	Sensitivity of regional evapotranspiration partitioning to variation in woody plant cover: insights from experimental dryland tree mosaics. <i>Global Ecology and Biogeography</i> , 2015, 24, 1040-1048.	2.7	28
53	Deep drainage sensitivity to climate, edaphic factors, and woody encroachment, Oklahoma, USA. <i>Hydrological Processes</i> , 2015, 29, 3779-3789.	1.1	22
54	Calibration of SWAT model for woody plant encroachment using paired experimental watershed data. <i>Journal of Hydrology</i> , 2015, 523, 231-239.	2.3	38

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55	Climate, water use, and land surface transformation in an irrigation intensive watershed—Streamflow responses from 1950 through 2010. <i>Agricultural Water Management</i> , 2015, 160, 144-152.	2.4	18
56	Canopy Interception for a Tallgrass Prairie under Juniper Encroachment. <i>PLoS ONE</i> , 2015, 10, e0141422.	1.1	48
57	Water use of <i>Juniperus virginiana</i> trees encroached into mesic prairies in Oklahoma, USA. <i>Ecohydrology</i> , 2014, 7, 1124-1134.	1.1	26
58	Calibration and Validation of the COSMOS Rover for Surface Soil Moisture Measurement. <i>Vadose Zone Journal</i> , 2014, 13, 1-8.	1.3	66
59	Drought-induced woody plant mortality in an encroached semi-arid savanna depends on topographic factors and land management. <i>Applied Vegetation Science</i> , 2014, 17, 42-52.	0.9	33
60	Performance assessment of the successive Version 6 and Version 7 TMPA products over the climate-transitional zone in the southern Great Plains, USA. <i>Journal of Hydrology</i> , 2014, 513, 446-456.	2.3	51
61	Alteration of hydrological processes and streamflow with juniper (<i>Juniperus virginiana</i>) encroachment in a mesic grassland catchment. <i>Hydrological Processes</i> , 2014, 28, 6173-6182.	1.1	68
62	Application of Gash analytical model and parameterized Fan model to estimate canopy interception of a Chinese red pine forest. <i>Journal of Forest Research</i> , 2013, 18, 335-344.	0.7	16
63	Nonstructural leaf carbohydrate dynamics of <i>Pinus edulis</i> during drought-induced tree mortality reveal role for carbon metabolism in mortality mechanism. <i>New Phytologist</i> , 2013, 197, 1142-1151.	3.5	221
64	Increased vapor pressure deficit due to higher temperature leads to greater transpiration and faster mortality during drought for tree seedlings common to the forest-grassland ecotone. <i>New Phytologist</i> , 2013, 200, 366-374.	3.5	243
65	The critical amplifying role of increasing atmospheric moisture demand on tree mortality and associated regional die-off. <i>Frontiers in Plant Science</i> , 2013, 4, 266.	1.7	163
66	Impacts of woody plant encroachment on regional climate in the southern Great Plains of the United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 9093-9104.	1.2	26
67	Density-Dependent Ecohydrological Effects of Juniper Woody Canopy Cover on Soil Microclimate and Potential Soil Evaporation. <i>Rangeland Ecology and Management</i> , 2012, 65, 11-20.	1.1	30
68	Effects of inundation on growth and nutrient allocation of six major macrophytes in the Florida Everglades. <i>Ecological Engineering</i> , 2012, 42, 10-18.	1.6	25
69	Long-term streamflow relations with riparian gallery forest expansion into tallgrass prairie in the Southern Great Plains, USA. <i>Forest Ecology and Management</i> , 2012, 266, 170-179.	1.4	32
70	Sediment capture by vegetation patches: Implications for desertification and increased resource redistribution. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	52
71	Characterizing ecohydrological and biogeochemical connectivity across multiple scales: a new conceptual framework. <i>Ecohydrology</i> , 2012, 5, 221-233.	1.1	17
72	Understanding ecohydrological connectivity in savannas: a system dynamics modelling approach. <i>Ecohydrology</i> , 2012, 5, 200-220.	1.1	31

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73	Runoff and sediment responses to grazing native and introduced species on highly erodible Southern Great Plains soil. <i>Journal of Hydrology</i> , 2012, 450-451, 336-341.	2.3	26
74	Interactive effects of grazing and burning on wind- and water-driven sediment fluxes: rangeland management implications. , 2011, 21, 22-32.		33
75	On the ratio of wind- to water-driven sediment transport: Conserving soil under global-change-type extreme events. <i>Journal of Soils and Water Conservation</i> , 2011, 66, 51A-56A.	0.8	13
76	Seasonally Pulsed Heterogeneity in Microclimate: Phenology and Cover Effects along Deciduous Grasslandâ€“Forest Continuum. <i>Vadose Zone Journal</i> , 2010, 9, 537-547.	1.3	53
77	Density-dependent shading patterns by Sonoran saguaros. <i>Journal of Arid Environments</i> , 2010, 74, 156-158.	1.2	13
78	Ecohydrological controls of soil evaporation in deciduous drylands: How the hierarchical effects of litter, patch and vegetation mosaic cover interact with phenology and season. <i>Journal of Arid Environments</i> , 2010, 74, 595-602.	1.2	87
79	Streamflow responses to vegetation manipulations along a gradient of precipitation in the Colorado River Basin. <i>Forest Ecology and Management</i> , 2010, 259, 1268-1276.	1.4	29
80	Ecohydrological energy inputs in semiarid coniferous gradients: Responses to management- and drought-induced tree reductions. <i>Forest Ecology and Management</i> , 2010, 260, 1646-1655.	1.4	30
81	Temperature sensitivity of drought-induced tree mortality portends increased regional die-off under global-change-type drought. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7063-7066.	3.3	857
82	Reply to Leuzinger et al.: Drought-induced tree mortality temperature sensitivity requires pressing forward with best available science. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, E107-E107.	3.3	10
83	Reply to Sala: Temperature sensitivity in drought-induced tree mortality hastens the need to further resolve a physiological model of death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, .	3.3	9
84	A conceptual framework for dryland aeolian sediment transport along the grasslandâ€“forest continuum: Effects of woody plant canopy cover and disturbance. <i>Geomorphology</i> , 2009, 105, 28-38.	1.1	91
85	Seasonal variation in seed bank composition and its interaction with nutrient enrichment in the Everglades wetlands. <i>Aquatic Botany</i> , 2009, 90, 157-164.	0.8	18
86	Vegetation Responses to Extreme Hydrological Events: Sequence Matters. <i>American Naturalist</i> , 2009, 173, 113-118.	1.0	73
87	Tree dieâ€“off in response to global changeâ€“type drought: mortality insights from a decade of plant water potential measurements. <i>Frontiers in Ecology and the Environment</i> , 2009, 7, 185-189.	1.9	436
88	Soil water dynamics under lowâ€“versus highâ€“ponderosa pine tree density: ecohydrological functioning and restoration implications. <i>Ecohydrology</i> , 2008, 1, 309-315.	1.1	39
89	Vegetation synchronously leans upslope as climate warms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11591-11592.	3.3	120
90	Effects of topography and woody plant canopy cover on nearâ€“ground solar radiation: Relevant energy inputs for ecohydrology and hydrogeology. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	61

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91	Soil moisture redistribution as a mechanism of facilitation in savanna tree-shrub clusters. <i>Oecologia</i> , 2005, 145, 32-40.	0.9	114
92	Title is missing!. <i>Plant and Soil</i> , 2001, 236, 105-115.	1.8	66
93	Least limiting water range: a potential indicator of physical quality of forest soils. <i>Soil Research</i> , 2000, 38, 947.	0.6	72
94	Physiological responses of radiata pine roots to soil strength and soil water deficit. <i>Tree Physiology</i> , 2000, 20, 1205-1207.	1.4	18