

Travis E Huxman

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/9583804/travis-e-huxman-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

8,465
citations

42
h-index

83
g-index

83
ext. papers

9,646
ext. citations

7.9
avg, IF

5.57
L-index

#	Paper	IF	Citations
80	Biological invasions and climate change amplify each other's effects on dryland degradation. <i>Global Change Biology</i> , 2022 , 28, 285-295	11.4	4
79	Warming as a Driver of Vegetation Loss in the Sonoran Desert of California. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2020JG005942	3.7	4
78	Sahara mustard as a major threat to desert biodiversity in the southwest United States and the need to integrate contemporary methods to understand its biology. <i>Ecology and Evolution</i> , 2020 , 10, 14453-14455	2.8	
77	Traversing the Wasteland: A Framework for Assessing Ecological Threats to Drylands. <i>BioScience</i> , 2020 , 70, 35-47	5.7	27
76	Empirical evidence for resilience of tropical forest photosynthesis in a warmer world. <i>Nature Plants</i> , 2020 , 6, 1225-1230	11.5	22
75	Functional trait trade-off and species abundance: insights from a multi-decadal study. <i>Ecology Letters</i> , 2019 , 22, 583-592	10	9
74	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	5.8	8
73	Seasonal and drought-related changes in leaf area profiles depend on height and light environment in an Amazon forest. <i>New Phytologist</i> , 2019 , 222, 1284-1297	9.8	44
72	Analyzing High-Frequency Soil Respiration Using a Probabilistic Model in a Semiarid, Mediterranean Climate. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 509-520	3.7	2
71	Restoring a Mediterranean-climate shrub community with perennial species reduces future invasion. <i>Restoration Ecology</i> , 2019 , 27, 298-307	3.1	4
70	Multiple introductions and population structure during the rapid expansion of the invasive Sahara mustard (). <i>Ecology and Evolution</i> , 2019 , 9, 7928-7941	2.8	6
69	Cryptic phenology in plants: Case studies, implications, and recommendations. <i>Global Change Biology</i> , 2019 , 25, 3591-3608	11.4	8
68	Early life history responses and phenotypic shifts in a rare endemic plant responding to climate change 2019 , 7, coz076		2
67	Impacts of competition and herbivory on native plants in a community-engaged, adaptively managed restoration experiment. <i>Conservation Science and Practice</i> , 2019 , 1, e122	2.2	0
66	Age-dependent leaf physiology and consequences for crown-scale carbon uptake during the dry season in an Amazon evergreen forest. <i>New Phytologist</i> , 2018 , 219, 870-884	9.8	43
65	The interaction of drought and habitat explain space-time patterns of establishment in saguaro (<i>Carnegiea gigantea</i>). <i>Ecology</i> , 2018 , 99, 621-631	4.6	14
64	Rapid alignment of functional trait variation with locality across the invaded range of Sahara mustard (<i>Brassica tournefortii</i>). <i>American Journal of Botany</i> , 2018 , 105, 1188-1197	2.7	10

63	Climate controls over ecosystem metabolism: insights from a fifteen-year inductive artificial neural network synthesis for a subalpine forest. <i>Oecologia</i> , 2017 , 184, 25-41	2.9	17
62	Effectiveness of seed sowing techniques for sloped restoration sites. <i>Restoration Ecology</i> , 2017 , 25, 942-952	3.5	9
61	The effect of soil inoculants on seed germination of native and invasive species. <i>Botany</i> , 2017 , 95, 469-480	4.0	9
60	Predicting drought tolerance from slope aspect preference in restored plant communities. <i>Ecology and Evolution</i> , 2017 , 7, 3123-3131	2.8	9
59	Effects of Drought Manipulation on Soil Nitrogen Cycling: A Meta-Analysis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 3260-3272	3.7	61
58	A multi-species synthesis of physiological mechanisms in drought-induced tree mortality. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1285-1291	12.3	469
57	Leaf development and demography explain photosynthetic seasonality in Amazon evergreen forests. <i>Science</i> , 2016 , 351, 972-6	33.3	252
56	Seasonal dry-down rates and high stress tolerance promote bamboo invasion above and below treeline. <i>Plant Ecology</i> , 2016 , 217, 1219-1234	1.7	17
55	Rising temperature may negate the stimulatory effect of rising CO on growth and physiology of Wollemi pine (<i>Wollemia nobilis</i>). <i>Functional Plant Biology</i> , 2015 , 42, 836-850	2.7	14
54	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	6.1	23
53	Cost-effective ecological restoration. <i>Restoration Ecology</i> , 2015 , 23, 800-810	3.1	81
52	Water and climate: Recognize anthropogenic drought. <i>Nature</i> , 2015 , 524, 409-11	50.4	210
51	The Landscape Evolution Observatory: A large-scale controllable infrastructure to study coupled Earth-surface processes. <i>Geomorphology</i> , 2015 , 244, 190-203	4.3	38
50	Transitions from grassland to savanna under drought through passive facilitation by grasses. <i>Journal of Vegetation Science</i> , 2014 , 25, 937-946	3.1	23
49	An integrated modelling framework of catchment-scale ecohydrological processes: 1. Model description and tests over an energy-limited watershed. <i>Ecohydrology</i> , 2014 , 7, 427-439	2.5	59
48	Quantifying the timescales over which exogenous and endogenous conditions affect soil respiration. <i>New Phytologist</i> , 2014 , 202, 442-454	9.8	35
47	Phenotypic selection favors missing trait combinations in coexisting annual plants. <i>American Naturalist</i> , 2013 , 182, 191-207	3.7	32
46	Antecedent Conditions Influence Soil Respiration Differences in Shrub and Grass Patches. <i>Ecosystems</i> , 2013 , 16, 1230-1247	3.9	33

45	Understanding past, contemporary, and future dynamics of plants, populations, and communities using Sonoran Desert winter annuals. <i>American Journal of Botany</i> , 2013 , 100, 1369-80	2.7	35
44	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	9.8	161
43	Water-use efficiency and relative growth rate mediate competitive interactions in Sonoran Desert winter annual plants. <i>American Journal of Botany</i> , 2013 , 100, 2009-15	2.7	31
42	Landscape and environmental controls over leaf and ecosystem carbon dioxide fluxes under woody plant expansion. <i>Journal of Ecology</i> , 2013 , 101, 1471-1483	6	19
41	Coevolution of nonlinear trends in vegetation, soils, and topography with elevation and slope aspect: A case study in the sky islands of southern Arizona. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013 , 118, 741-758	3.8	63
40	Differential daytime and night-time stomatal behavior in plants from North American deserts. <i>New Phytologist</i> , 2012 , 194, 464-476	9.8	78
39	Temperature and precipitation controls over leaf- and ecosystem-level CO ₂ flux along a woody plant encroachment gradient. <i>Global Change Biology</i> , 2012 , 18, 1389-1400	11.4	52
38	Shrub encroachment alters sensitivity of soil respiration to temperature and moisture. <i>Journal of Geophysical Research</i> , 2012 , 117,		24
37	Quantifying soil surface change in degraded drylands: Shrub encroachment and effects of fire and vegetation removal in a desert grassland. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		32
36	Ecohydrological consequences of drought- and infestation- triggered tree die-off: insights and hypotheses. <i>Ecohydrology</i> , 2012 , 5, 145-159	2.5	171
35	Nocturnal stomatal conductance responses to rising [CO ₂], temperature and drought. <i>New Phytologist</i> , 2012 , 193, 929-938	9.8	80
34	Within-plant isoprene oxidation confirmed by direct emissions of oxidation products methyl vinyl ketone and methacrolein. <i>Global Change Biology</i> , 2012 , 18, 973-984	11.4	87
33	The relative controls of temperature, soil moisture, and plant functional group on soil CO ₂ efflux at diel, seasonal, and annual scales. <i>Journal of Geophysical Research</i> , 2011 , 116,		84
32	The temperature responses of soil respiration in deserts: a seven desert synthesis. <i>Biogeochemistry</i> , 2011 , 103, 71-90	3.8	84
31	An open system framework for integrating critical zone structure and function. <i>Biogeochemistry</i> , 2011 , 102, 15-29	3.8	81
30	How Water, Carbon, and Energy Drive Critical Zone Evolution: The Jemez-Santa Catalina Critical Zone Observatory. <i>Vadose Zone Journal</i> , 2011 , 10, 884-899	2.7	96
29	Contemporary climate change in the Sonoran Desert favors cold-adapted species. <i>Global Change Biology</i> , 2010 , 16, 1555-1565	11.4	109
28	Phenotypic plasticity and precipitation response in Sonoran Desert winter annuals. <i>American Journal of Botany</i> , 2010 , 97, 405-11	2.7	33

27	Hysteresis of soil moisture spatial heterogeneity and the homogenizing effect of vegetation. <i>Water Resources Research</i> , 2010 , 46,	5.4	115
26	Partitioning evapotranspiration across gradients of woody plant cover: Assessment of a stable isotope technique. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	139
25	Land surface modeling inside the Biosphere 2 tropical rain forest biome. <i>Journal of Geophysical Research</i> , 2010 , 115,		13
24	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, 7063-6	11.5	719
23	Climate and vegetation water use efficiency at catchment scales. <i>Hydrological Processes</i> , 2009 , 23, 2409-2414	3.4	154
22	Woody plant encroachment impacts on soil carbon and microbial processes: results from a hierarchical Bayesian analysis of soil incubation data. <i>Plant and Soil</i> , 2009 , 320, 153-167	4.2	36
21	Can biological invasions induce desertification?. <i>New Phytologist</i> , 2009 , 181, 512-5	9.8	33
20	Interactions Between Biogeochemistry and Hydrologic Systems. <i>Annual Review of Environment and Resources</i> , 2009 , 34, 65-96	17.2	117
19	Effects of seasonal drought on net carbon dioxide exchange from a woody-plant-encroached semiarid grassland. <i>Journal of Geophysical Research</i> , 2009 , 114,		162
18	Functional tradeoffs determine species coexistence via the storage effect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 11641-5	11.5	298
17	Land degradation in the Thar Desert. <i>Frontiers in Ecology and the Environment</i> , 2009 , 7, 517-518	5.5	10
16	Photosynthetic resource-use efficiency and demographic variability in desert winter annual plants. <i>Ecology</i> , 2008 , 89, 1554-63	4.6	62
15	Soil Texture Drives Responses of Soil Respiration to Precipitation Pulses in the Sonoran Desert: Implications for Climate Change. <i>Ecosystems</i> , 2008 , 11, 961-979	3.9	162
14	Adaptive differences in plant physiology and ecosystem paradoxes: insights from metabolic scaling theory. <i>Global Change Biology</i> , 2007 , 13, 591-609	11.4	62
13	Partitioning of evapotranspiration and its relation to carbon dioxide exchange in a Chihuahuan Desert shrubland. <i>Hydrological Processes</i> , 2006 , 20, 3227-3243	3.3	161
12	Resilience and resistance of ecosystem functional response to a precipitation pulse in a semi-arid grassland. <i>Journal of Ecology</i> , 2006 , 94, 23-30	6	92
11	Ecohydrological impacts of woody-plant encroachment: seasonal patterns of water and carbon dioxide exchange within a semiarid riparian environment. <i>Global Change Biology</i> , 2006 , 12, 311-324	11.4	179
10	Increases in Desert Shrub Productivity under Elevated Carbon Dioxide Vary with Water Availability. <i>Ecosystems</i> , 2006 , 9, 374-385	3.9	57

9	ECOHYDROLOGICAL IMPLICATIONS OF WOODY PLANT ENCROACHMENT. <i>Ecology</i> , 2005 , 86, 308-319	4.6	500
8	CO2 ENRICHMENT REDUCES THE ENERGETIC COST OF BIOMASS CONSTRUCTION IN AN INVASIVE DESERT GRASS. <i>Ecology</i> , 2004 , 85, 100-106	4.6	46
7	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	9.8	53
6	Convergence across biomes to a common rain-use efficiency. <i>Nature</i> , 2004 , 429, 651-4	50.4	786
5	Response of net ecosystem gas exchange to a simulated precipitation pulse in a semi-arid grassland: the role of native versus non-native grasses and soil texture. <i>Oecologia</i> , 2004 , 141, 295-305	2.9	201
4	Precipitation pulses and carbon fluxes in semiarid and arid ecosystems. <i>Oecologia</i> , 2004 , 141, 254-68	2.9	815
3	Photosynthetic responses of Mojave Desert shrubs to free air CO2 enrichment are greatest during wet years. <i>Global Change Biology</i> , 2003 , 9, 276-285	11.4	64
2	Functional ecology of shrub seedlings after a natural recruitment event at the Nevada Desert FACE Facility. <i>Global Change Biology</i> , 2003 , 9, 718-728	11.4	16
1	Elevated CO2 increases productivity and invasive species success in an arid ecosystem. <i>Nature</i> , 2000 , 408, 79-82	50.4	465