

Jeffrey Dukes

List of Publications by Year in descending order

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Version: 2024-02-01

129
papers

17,984
citations

28190

55
h-index

17055

122
g-index

164
all docs

164
docs citations

164
times ranked

19212
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms underlying the impacts of exotic plant invasions. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 775-781.	1.2	1,313
2	Does global change increase the success of biological invaders?. <i>Trends in Ecology and Evolution</i> , 1999, 14, 135-139.	4.2	1,254
3	Progressive Nitrogen Limitation of Ecosystem Responses to Rising Atmospheric Carbon Dioxide. <i>BioScience</i> , 2004, 54, 731.	2.2	1,092
4	Five Potential Consequences of Climate Change for Invasive Species. <i>Conservation Biology</i> , 2008, 22, 534-543.	2.4	997
5	Global threats from invasive alien species in the twenty-first century and national response capacities. <i>Nature Communications</i> , 2016, 7, 12485.	5.8	808
6	Plant invasion across space and time: factors affecting nonindigenous species success during four stages of invasion. <i>New Phytologist</i> , 2007, 176, 256-273.	3.5	762
7	ATMOSPHERIC SCIENCE: Nitrogen and Climate Change. <i>Science</i> , 2003, 302, 1512-1513.	6.0	735
8	Will extreme climatic events facilitate biological invasions?. <i>Frontiers in Ecology and the Environment</i> , 2012, 10, 249-257.	1.9	402
9	Plant respiration and photosynthesis in global-scale models: incorporating acclimation to temperature and CO_2 . <i>Global Change Biology</i> , 2013, 19, 45-63.	4.2	401
10	Responses of insect pests, pathogens, and invasive plant species to climate change in the forests of northeastern North America: What can we predict? This article is one of a selection of papers from NE Forests 2100: A Synthesis of Climate Change Impacts on Forests of the Northeastern US and Eastern Canada.. <i>Canadian Journal of Forest Research</i> , 2009, 39, 231-248.	0.8	393
11	Effects of soil moisture on the temperature sensitivity of heterotrophic respiration vary seasonally in an old-field climate change experiment. <i>Global Change Biology</i> , 2012, 18, 336-348.	4.2	367
12	Simple additive effects are rare: a quantitative review of plant biomass and soil process responses to combined manipulations of CO_2 and temperature. <i>Global Change Biology</i> , 2012, 18, 2681-2693.	4.2	365
13	A roadmap for improving the representation of photosynthesis in Earth system models. <i>New Phytologist</i> , 2017, 213, 22-42.	3.5	365
14	Global variability in leaf respiration in relation to climate, plant functional types and leaf traits. <i>New Phytologist</i> , 2015, 206, 614-636.	3.5	350
15	Responses of Grassland Production to Single and Multiple Global Environmental Changes. <i>PLoS Biology</i> , 2005, 3, e319.	2.6	308
16	Temperature response of soil respiration largely unaltered with experimental warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13797-13802.	3.3	308
17	A meta-analysis of 1,119 manipulative experiments on terrestrial carbon-cycling responses to global change. <i>Nature Ecology and Evolution</i> , 2019, 3, 1309-1320.	3.4	304
18	Overyielding among plant functional groups in a long-term experiment. <i>Ecology Letters</i> , 2003, 7, 95-105.	3.0	289

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19	Biodiversity and invasibility in grassland microcosms. <i>Oecologia</i> , 2001, 126, 563-568.	0.9	281
20	Modeled interactive effects of precipitation, temperature, and [CO ₂] on ecosystem carbon and water dynamics in different climatic zones. <i>Global Change Biology</i> , 2008, 14, 1986-1999.	4.2	277
21	Poised to prosper? A cross-system comparison of climate change effects on native and non-native species performance. <i>Ecology Letters</i> , 2013, 16, 261-270.	3.0	256
22	Coordinated distributed experiments: an emerging tool for testing global hypotheses in ecology and environmental science. <i>Frontiers in Ecology and the Environment</i> , 2013, 11, 147-155.	1.9	237
23	Modeling the effects of temperature and moisture on soil enzyme activity: Linking laboratory assays to continuous field data. <i>Soil Biology and Biochemistry</i> , 2012, 55, 85-92.	4.2	219
24	Global change, global trade, and the next wave of plant invasions. <i>Frontiers in Ecology and the Environment</i> , 2012, 10, 20-28.	1.9	195
25	Global patterns and substrate-based mechanisms of the terrestrial nitrogen cycle. <i>Ecology Letters</i> , 2016, 19, 697-709.	3.0	192
26	SPECIES COMPOSITION AND DIVERSITY AFFECT GRASSLAND SUSCEPTIBILITY AND RESPONSE TO INVASION. , 2002, 12, 602-617.		180
27	Coordinated approaches to quantify long-term ecosystem dynamics in response to global change. <i>Global Change Biology</i> , 2011, 17, 843-854.	4.2	165
28	Microbial responses to multi-factor climate change: effects on soil enzymes. <i>Frontiers in Microbiology</i> , 2013, 4, 146.	1.5	164
29	Temperature acclimation of photosynthesis and respiration: A key uncertainty in the carbon cycle-climate feedback. <i>Geophysical Research Letters</i> , 2015, 42, 8624-8631.	1.5	160
30	Disruption of ecosystem processes in western North America by invasive species. <i>Revista Chilena De Historia Natural</i> , 2004, 77, .	0.5	159
31	Interactive responses of old-field plant growth and composition to warming and precipitation. <i>Global Change Biology</i> , 2012, 18, 1754-1768.	4.2	157
32	Impacts of Invasive Species on Ecosystem Services. , 2008, , 217-237.		154
33	Impacts of the invasive plant <i>Fallopia japonica</i> (Houtt.) on plant communities and ecosystem processes. <i>Biological Invasions</i> , 2010, 12, 1243-1252.	1.2	140
34	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
35	Functional composition controls invasion success in a California serpentine grassland. <i>Journal of Ecology</i> , 2010, 98, 764-777.	1.9	125
36	Effects of warming and altered precipitation on plant and nutrient dynamics of a New England salt marsh. <i>Ecological Applications</i> , 2009, 19, 1758-1773.	1.8	123

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37	Predicting soil carbon loss with warming. <i>Nature</i> , 2018, 554, E4-E5.	13.7	122
38	Burning Buried Sunshine: Human Consumption of Ancient Solar Energy. <i>Climatic Change</i> , 2003, 61, 31-44.	1.7	116
39	Current Practices and Future Opportunities for Policy on Climate Change and Invasive Species. <i>Conservation Biology</i> , 2008, 22, 585-592.	2.4	116
40	Adjusting the lens of invasion biology to focus on the impacts of climate-driven range shifts. <i>Nature Climate Change</i> , 2020, 10, 398-405.	8.1	116
41	The added complications of climate change: understanding and managing biodiversity and ecosystems. <i>Frontiers in Ecology and the Environment</i> , 2013, 11, 494-501.	1.9	114
42	Foliar temperature acclimation reduces simulated carbon sensitivity to climate. <i>Nature Climate Change</i> , 2016, 6, 407-411.	8.1	114
43	Modelled effects of precipitation on ecosystem carbon and water dynamics in different climatic zones. <i>Global Change Biology</i> , 2008, 14, 2365-2379.	4.2	112
44	Increased sensitivity to climate change in disturbed ecosystems. <i>Nature Communications</i> , 2015, 6, 6682.	5.8	111
45	Urgent need for a common metric to make precipitation manipulation experiments comparable. <i>New Phytologist</i> , 2012, 195, 518-522.	3.5	97
46	Changes in the structural composition and reactivity of <i>Acer rubrum</i> leaf litter tannins exposed to warming and altered precipitation: climatic stress-induced tannins are more reactive. <i>New Phytologist</i> , 2011, 191, 132-145.	3.5	92
47	Short-term acclimation to warmer temperatures accelerates leaf carbon exchange processes across plant types. <i>Global Change Biology</i> , 2017, 23, 4840-4853.	4.2	91
48	Strong response of an invasive plant species (<i>Centaurea solstitialis</i> L.) to global environmental changes. , 2011, 21, 1887-1894.		85
49	The responses of soil and rhizosphere respiration to simulated climatic changes vary by season. <i>Ecology</i> , 2013, 94, 403-413.	1.5	85
50	A unified approach for quantifying invasibility and degree of invasion. <i>Ecology</i> , 2015, 96, 2613-2621.	1.5	82
51	The effect of experimental warming and precipitation change on proteolytic enzyme activity: positive feedbacks to nitrogen availability are not universal. <i>Global Change Biology</i> , 2012, 18, 2617-2625.	4.2	80
52	Experiments to confront the environmental extremes of climate change. <i>Frontiers in Ecology and the Environment</i> , 2015, 13, 219-225.	1.9	79
53	Can current moisture responses predict soil CO ₂ efflux under altered precipitation regimes? A synthesis of manipulation experiments. <i>Biogeosciences</i> , 2014, 11, 2991-3013.	1.3	74
54	Community Response to Extreme Drought (CRED): a framework for drought-induced shifts in plant-plant interactions. <i>New Phytologist</i> , 2019, 222, 52-69.	3.5	74

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55	Warming and drought reduce temperature sensitivity of nitrogen transformations. <i>Global Change Biology</i> , 2013, 19, 662-676.	4.2	70
56	Rising atmospheric CO ₂ is reducing the protein concentration of a floral pollen source essential for North American bees. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160414.	1.2	69
57	Labile compounds in plant litter reduce the sensitivity of decomposition to warming and altered precipitation. <i>New Phytologist</i> , 2013, 200, 122-133.	3.5	68
58	Do maize models capture the impacts of heat and drought stresses on yield? Using algorithm ensembles to identify successful approaches. <i>Global Change Biology</i> , 2016, 22, 3112-3126.	4.2	63
59	Warming and drought differentially influence the production and resorption of elemental and metabolic nitrogen pools in <i>Quercus rubra</i> . <i>Global Change Biology</i> , 2015, 21, 4177-4195.	4.2	59
60	Linking Plant Invasions to Global Environmental Change. , 2007, , 93-102.		57
61	Responses of a California annual grassland to litter manipulation. <i>Journal of Vegetation Science</i> , 2008, 19, 605-612.	1.1	57
62	Productivity and complementarity in grassland microcosms of varying diversity. <i>Oikos</i> , 2001, 94, 468-480.	1.2	56
63	Triose phosphate limitation in photosynthesis models reduces leaf photosynthesis and global terrestrial carbon storage. <i>Environmental Research Letters</i> , 2018, 13, 074025.	2.2	56
64	Soil bacterial community responses to altered precipitation and temperature regimes in an old field grassland are mediated by plants. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	1.3	54
65	Climateâ€“biosphere interactions in a more extreme world. <i>New Phytologist</i> , 2014, 202, 356-359.	3.5	51
66	Globally consistent influences of seasonal precipitation limit grassland biomass response to elevated CO ₂ . <i>Nature Plants</i> , 2019, 5, 167-173.	4.7	51
67	Climate Influences the Content and Chemical Composition of Foliar Tannins in Green and Senesced Tissues of <i>Quercus rubra</i> . <i>Frontiers in Plant Science</i> , 2017, 8, 423.	1.7	50
68	Integrated assessment of biological invasions. <i>Ecological Applications</i> , 2014, 24, 25-37.	1.8	46
69	Title is missing!. <i>Plant Ecology</i> , 2002, 160, 225-234.	0.7	44
70	Warming alters potential enzyme activity but precipitation regulates chemical transformations in grass litter exposed to simulated climatic changes. <i>Soil Biology and Biochemistry</i> , 2014, 75, 102-112.	4.2	44
71	Rainfall variability and nitrogen addition synergistically reduce plant diversity in a restored tallgrass prairie. <i>Journal of Applied Ecology</i> , 2016, 53, 579-586.	1.9	42
72	Microbial dormancy promotes microbial biomass and respiration across pulses of drying-wetting stress. <i>Soil Biology and Biochemistry</i> , 2018, 116, 237-244.	4.2	41

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73	The ecology of peace: preparing Colombia for new political and planetary climates. <i>Frontiers in Ecology and the Environment</i> , 2018, 16, 525-531.	1.9	41
74	Diverse mechanisms for CO2 effects on grassland litter decomposition. <i>Global Change Biology</i> , 2000, 6, 145-154.	4.2	40
75	Integrated Monitoring and Information Systems for Managing Aquatic Invasive Species in a Changing Climate. <i>Conservation Biology</i> , 2008, 22, 575-584.	2.4	40
76	How do climate change experiments alter plot-scale climate?. <i>Ecology Letters</i> , 2019, 22, 748-763.	3.0	39
77	Shifting Impacts of Climate Change. <i>Advances in Ecological Research</i> , 2016, 55, 437-473.	1.4	36
78	Effects of Climate Change on Invasive Species. , 2021, , 57-83.		36
79	What have we learned from global change manipulative experiments in China? A meta-analysis. <i>Scientific Reports</i> , 2015, 5, 12344.	1.6	35
80	Combined impacts of prolonged drought and warming on plant size and foliar chemistry. <i>Annals of Botany</i> , 2019, 124, 41-52.	1.4	34
81	Relationships between urban tree communities and the biomes in which they reside. <i>Applied Vegetation Science</i> , 2013, 16, 8-20.	0.9	31
82	Agricultural Weed Research: A Critique and Two Proposals. <i>Weed Science</i> , 2014, 62, 672-678.	0.8	30
83	Field experiments underestimate aboveground biomass response to drought. <i>Nature Ecology and Evolution</i> , 2022, 6, 540-545.	3.4	30
84	Changes in the Size of the Active Microbial Pool Explain Short-Term Soil Respiratory Responses to Temperature and Moisture. <i>Frontiers in Microbiology</i> , 2016, 7, 524.	1.5	29
85	Drivers of leaf carbon exchange capacity across biomes at the continental scale. <i>Ecology</i> , 2018, 99, 1610-1620.	1.5	29
86	Railways redistribute plant species in mountain landscapes. <i>Journal of Applied Ecology</i> , 2021, 58, 1967-1980.	1.9	27
87	Increasing the spatial and temporal impact of ecological research: A roadmap for integrating a novel terrestrial process into an Earth system model. <i>Global Change Biology</i> , 2022, 28, 665-684.	4.2	27
88	Elevated Carbon Dioxide and Litter Decomposition in California Annual Grasslands: Which Mechanisms Matter?. <i>Ecosystems</i> , 2002, 5, 171-183.	1.6	25
89	Global environmental changes more frequently offset than intensify detrimental effects of biological invasions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	25
90	Biophysical consequences of photosynthetic temperature acclimation for climate. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 536-547.	1.3	24

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91	Reviews and syntheses: Soil responses to manipulated precipitation changes – an assessment of meta-analyses. <i>Biogeosciences</i> , 2020, 17, 3859-3873.	1.3	24
92	Terrestrial Precipitation Analysis (<sc>TPA</sc>): A resource for characterizing long-term precipitation regimes and extremes. <i>Methods in Ecology and Evolution</i> , 2016, 7, 1396-1401.	2.2	23
93	Relationships among land use, soil texture, species richness, and soil carbon in Midwestern tallgrass prairie, CRP and crop lands. <i>Agriculture, Ecosystems and Environment</i> , 2016, 216, 237-246.	2.5	23
94	Shrubland primary production and soil respiration diverge along European climate gradient. <i>Scientific Reports</i> , 2017, 7, 43952.	1.6	23
95	Non-additive effects of invasive tree litter shift seasonal N release: a potential invasion feedback. <i>Oikos</i> , 2014, 123, 1101-1111.	1.2	22
96	Understanding the combined impacts of weeds and climate change on crops. <i>Environmental Research Letters</i> , 2021, 16, 034043.	2.2	22
97	Warming increases the sensitivity of seedling growth capacity to rainfall in six temperate deciduous tree species. <i>AoB PLANTS</i> , 2018, 10, ply003.	1.2	21
98	Agricultural impacts of climate change in Indiana and potential adaptations. <i>Climatic Change</i> , 2020, 163, 2005-2027.	1.7	21
99	Nitrification kinetics and ammonia-oxidizing community respond to warming and altered precipitation. <i>Ecosphere</i> , 2015, 6, 1-17.	1.0	19
100	Tree leaf out response to temperature: comparing field observations, remote sensing, and a warming experiment. <i>International Journal of Biometeorology</i> , 2014, 58, 1251-1257.	1.3	17
101	Microbial dormancy improves predictability of soil respiration at the seasonal time scale. <i>Biogeochemistry</i> , 2019, 144, 103-116.	1.7	16
102	Nighttime warming enhances ecosystem carbon-use efficiency in a temperate steppe. <i>Functional Ecology</i> , 2020, 34, 1721-1730.	1.7	16
103	Ecosystem Responses to Warming and Interacting Global Change Factors. <i>Global Change - the IGBP Series</i> , 2007, , 23-36.	2.1	16
104	Increasing Forest Carbon Sequestration through Cooperation and Shared Strategies between China and the United States. <i>Environmental Science & Technology</i> , 2011, 45, 2033-2034.	4.6	15
105	Rainfall variability counteracts N addition by promoting invasive <i>Lonicera maackii</i> and extending phenology in prairie. <i>Ecological Applications</i> , 2017, 27, 1555-1563.	1.8	15
106	LCE: leaf carbon exchange data set for tropical, temperate, and boreal species of North and Central America. <i>Ecology</i> , 2017, 98, 2978-2978.	1.5	15
107	Short-term thermal acclimation of dark respiration is greater in non-photosynthetic than in photosynthetic tissues. <i>AoB PLANTS</i> , 2019, 11, plz064.	1.2	15
108	Leaf-Level Gas Exchange and Foliar Chemistry of Common Old-Field Species Responding to Warming and Precipitation Treatments. <i>International Journal of Plant Sciences</i> , 2012, 173, 957-970.	0.6	14

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109	Tomorrow's plant communities: different, but how?. <i>New Phytologist</i> , 2007, 176, 235-237.	3.5	12
110	Corrigendum to "Can current moisture responses predict soil CO ₂ efflux under altered precipitation regimes? A synthesis of manipulation experiments". <i>Biogeosciences</i> , 2014, 11, 3307-3308.	1.3	10
111	Responses of aboveground C and N pools to rainfall variability and nitrogen deposition are mediated by seasonal precipitation and plant community dynamics. <i>Biogeochemistry</i> , 2016, 129, 389-400.	1.7	10
112	Temporal variability in the thermal requirements for vegetation phenology on the Tibetan plateau and its implications for carbon dynamics. <i>Climatic Change</i> , 2016, 138, 617-632.	1.7	10
113	Long-term propagule pressure overwhelms initial community determination of invader success. <i>Ecosphere</i> , 2019, 10, e02826.	1.0	10
114	No Accession-Specific Effect of Rhizosphere Soil Communities on the Growth and Competition of <i>Arabidopsis thaliana</i> Accessions. <i>PLoS ONE</i> , 2011, 6, e27585.	1.1	7
115	Characterizing the drivers of seedling leaf gas exchange responses to warming and altered precipitation: indirect and direct effects. <i>AoB PLANTS</i> , 2016, 8, .	1.2	7
116	No acclimation: instantaneous responses to temperature maintain homeostatic photosynthetic rates under experimental warming across a precipitation gradient in <i>Ulmus americana</i> . <i>AoB PLANTS</i> , 2020, 12, .	1.2	6
117	Seasonality of Tropical Photosynthesis: A Pantropical Map of Correlations With Precipitation and Radiation and Comparison to Model Outputs. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006123.	1.3	6
118	Engagement 2.0: increasing our collective impact. <i>Frontiers in Ecology and the Environment</i> , 2016, 14, 403-403.	1.9	5
119	Understory plant composition and nitrogen transformations resistant to changes in seasonal precipitation. <i>Ecosphere</i> , 2019, 10, e02747.	1.0	5
120	Peace and the environment at the crossroads: Elections in a conflict-troubled biodiversity hotspot. <i>Environmental Science and Policy</i> , 2022, 135, 77-85.	2.4	5
121	Demographic analysis of invivable habitat fraction identifies context-dependent roles of resource availability and biotic resistance in determining invasion success. <i>Journal of Ecology</i> , 2021, 109, 714-726.	1.9	4
122	Undermining Colombia's peace and environment. <i>Science</i> , 2021, 373, 289-290.	6.0	4
123	Introduction to the Indiana Climate Change Impacts Assessment: overview of the process and context. <i>Climatic Change</i> , 2020, 163, 1869-1879.	1.7	3
124	Impacts of Invasive Species on Forest and Grassland Ecosystem Processes in the United States. , 2021, , 41-55.		3
125	Responses to Changing Atmosphere and Climate. , 2007, , 218-229.		3
126	Distribution of Terrestrial Ecosystems and Changes in Plant Community Composition. , 2014, , 341-347.		1

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127	Fresh perspectives on timeless questions. <i>Frontiers in Ecology and the Environment</i> , 2007, 5, 334-335.	1.9	0
128	Call for new AAAS harassment policy. <i>Science</i> , 2018, 361, 984-984.	6.0	0
129	Increased rainfall variability and nitrogen deposition accelerate succession along a common sere. <i>Ecosphere</i> , 2021, 12, e03313.	1.0	0