

Joseph Craine

List of Publications by Citations

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

132
papers

15,612
citations

55
h-index

124
g-index

156
ext. papers

18,760
ext. citations

8.4
avg, IF

6.49
L-index

#	Paper	IF	Citations
132	New handbook for standardised measurement of plant functional traits worldwide. <i>Australian Journal of Botany</i> , 2013 , 61, 167	1.2	1983
131	TRY β global database of plant traits. <i>Global Change Biology</i> , 2011 , 17, 2905-2935	11.4	1623
130	Consistent effects of nitrogen amendments on soil microbial communities and processes across biomes. <i>Global Change Biology</i> , 2012 , 18, 1918-1927	11.4	715
129	Global patterns of foliar nitrogen isotopes and their relationships with climate, mycorrhizal fungi, foliar nutrient concentrations, and nitrogen availability. <i>New Phytologist</i> , 2009 , 183, 980-992	9.8	606
128	Microbial nitrogen limitation increases decomposition. <i>Ecology</i> , 2007 , 88, 2105-13	4.6	562
127	LITTER QUALITY AND THE TEMPERATURE SENSITIVITY OF DECOMPOSITION. <i>Ecology</i> , 2005 , 86, 320-326	4.6	479
126	Plant diversity enhances ecosystem responses to elevated CO ₂ and nitrogen deposition. <i>Nature</i> , 2001 , 410, 809-12	50.4	469
125	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , 2020 , 26, 119-188	11.4	399
124	Linking leaf and root trait syndromes among 39 grassland and savannah species. <i>New Phytologist</i> , 2005 , 167, 493-508	9.8	356
123	Fifty thousand years of Arctic vegetation and megafaunal diet. <i>Nature</i> , 2014 , 506, 47-51	50.4	351
122	Reconciling plant strategy theories of Grime and Tilman. <i>Journal of Ecology</i> , 2005 , 93, 1041-1052	6	294
121	Ecological interpretations of nitrogen isotope ratios of terrestrial plants and soils. <i>Plant and Soil</i> , 2015 , 396, 1-26	4.2	291
120	Mechanisms of plant competition for nutrients, water and light. <i>Functional Ecology</i> , 2013 , 27, 833-840	5.6	291
119	Functional traits, productivity and effects on nitrogen cycling of 33 grassland species. <i>Functional Ecology</i> , 2002 , 16, 563-574	5.6	285
118	The relationships among root and leaf traits of 76 grassland species and relative abundance along fertility and disturbance gradients. <i>Oikos</i> , 2001 , 93, 274-285	4	279
117	Plant functional trait change across a warming tundra biome. <i>Nature</i> , 2018 , 562, 57-62	50.4	264
116	Widespread coupling between the rate and temperature sensitivity of organic matter decay. <i>Nature Geoscience</i> , 2010 , 3, 854-857	18.3	247

115	Changes through time: integrating microorganisms into the study of succession. <i>Research in Microbiology</i> , 2010 , 161, 635-42	4	232
114	Do species and functional groups differ in acquisition and use of C, N and water under varying atmospheric CO ₂ and N availability regimes? A field test with 16 grassland species. <i>New Phytologist</i> , 2001 , 150, 435-448	9.8	217
113	Timing of climate variability and grassland productivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 3401-5	11.5	207
112	Nitrogen fertilization inhibits soil microbial respiration regardless of the form of nitrogen applied. <i>Soil Biology and Biochemistry</i> , 2010 , 42, 2336-2338	7.5	204
111	Species and functional group diversity independently influence biomass accumulation and its response to CO ₂ and N. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 10101-6	11.5	200
110	Predominance of ecophysiological controls on soil CO ₂ flux in a Minnesota grassland. <i>Plant and Soil</i> , 1998 , 207, 77-86	4.2	195
109	The moisture response of soil heterotrophic respiration: interaction with soil properties. <i>Biogeosciences</i> , 2012 , 9, 1173-1182	4.6	176
108	Global diversity of drought tolerance and grassland climate-change resilience. <i>Nature Climate Change</i> , 2013 , 3, 63-67	21.4	173
107	Corrigendum to: New handbook for standardised measurement of plant functional traits worldwide. <i>Australian Journal of Botany</i> , 2016 , 64, 715	1.2	166
106	ENVIRONMENTAL CONSTRAINTS ON A GLOBAL RELATIONSHIP AMONG LEAF AND ROOT TRAITS OF GRASSES. <i>Ecology</i> , 2005 , 86, 12-19	4.6	165
105	Climate, soil and plant functional types as drivers of global fine-root trait variation. <i>Journal of Ecology</i> , 2017 , 105, 1182-1196	6	155
104	Multiple facets of biodiversity drive the diversity-stability relationship. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1579-1587	12.3	140
103	Resource Strategies of Wild Plants 2009 ,		139
102	Covariation in leaf and root traits for native and non-native grasses along an altitudinal gradient in New Zealand. <i>Oecologia</i> , 2003 , 134, 471-8	2.9	122
101	Nutrient concentration ratios and co-limitation in South African grasslands. <i>New Phytologist</i> , 2008 , 179, 829-836	9.8	115
100	Relationship between the structure of root systems and resource use for 11 North American grassland plants. <i>Plant Ecology</i> , 2003 , 165, 85-100	1.7	110
99	Soil properties control decomposition of soil organic carbon: Results from data-assimilation analysis. <i>Geoderma</i> , 2016 , 262, 235-242	6.7	104
98	Mapping local and global variability in plant trait distributions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E10937-E10946	11.5	103

97	Plant structural defences against browsing birds: a legacy of New Zealand's extinct moas. <i>Oikos</i> , 2004 , 104, 500-508	4	102
96	Global relationship of wood and leaf litter decomposability: the role of functional traits within and across plant organs. <i>Global Ecology and Biogeography</i> , 2014 , 23, 1046-1057	6.1	100
95	Competition for Nutrients and Optimal Root Allocation. <i>Plant and Soil</i> , 2006 , 285, 171-185	4.2	95
94	Soil moisture controls on temperature sensitivity of soil organic carbon decomposition for a mesic grassland. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 455-457	7.5	94
93	A 250 plastome phylogeny of the grass family (Poaceae): topological support under different data partitions. <i>PeerJ</i> , 2018 , 6, e4299	3.1	94
92	Convergence of soil nitrogen isotopes across global climate gradients. <i>Scientific Reports</i> , 2015 , 5, 8280	4.9	90
91	Climate change and cattle nutritional stress. <i>Global Change Biology</i> , 2010 , 16, 2901-2911	11.4	89
90	Changes in nitrogen cycling during the past century in a northern hardwood forest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 7466-70	11.5	87
89	Supply pre-emption, not concentration reduction, is the mechanism of competition for nutrients. <i>New Phytologist</i> , 2005 , 166, 933-40	9.8	85
88	Changes in global nitrogen cycling during the Holocene epoch. <i>Nature</i> , 2013 , 495, 352-5	50.4	84
87	Decline in alkali meadow vegetation cover in California: the effects of groundwater extraction and drought. <i>Journal of Applied Ecology</i> , 2006 , 43, 770-779	5.8	84
86	Isotopic evidence for oligotrophication of terrestrial ecosystems. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1735-1744	12.3	82
85	Root characteristics of C4 grasses limit reliance on deep soil water in tallgrass prairie. <i>Plant and Soil</i> , 2012 , 355, 385-394	4.2	72
84	Leaf-level light compensation points in shade-tolerant woody seedlings. <i>New Phytologist</i> , 2005 , 166, 710-3	9.8	68
83	The response of soil CO ₂ flux to changes in atmospheric CO ₂ , nitrogen supply and plant diversity. <i>Global Change Biology</i> , 2001 , 7, 947-953	11.4	65
82	Seasonal Shifts in Diet and Gut Microbiota of the American Bison (<i>Bison bison</i>). <i>PLoS ONE</i> , 2015 , 10, e0142409	3.7	64
81	A multi-isotope (¹³ C, ¹⁵ N, ² H) feather isoscape to assign Afrotropical migrant birds to origins. <i>Ecosphere</i> , 2012 , 3, art44	3.1	62
80	Flowering phenology as a functional trait in a tallgrass prairie. <i>New Phytologist</i> , 2012 , 193, 673-682	9.8	61

79	Thirteen decades of foliar isotopes indicate declining nitrogen availability in central North American grasslands. <i>New Phytologist</i> , 2010 , 187, 1135-1145	9.8	58
78	A methodology to derive global maps of leaf traits using remote sensing and climate data. <i>Remote Sensing of Environment</i> , 2018 , 218, 69-88	13.2	58
77	Plant nitrogen and phosphorus limitation in 98 North American grassland soils. <i>Plant and Soil</i> , 2010 , 334, 73-84	4.2	54
76	Which traits determine shifts in the abundance of tree species in a fire-prone savanna?. <i>Journal of Ecology</i> , 2012 , 100, 1400-1410	6	50
75	Landscape-level variation in temperature sensitivity of soil organic carbon decomposition. <i>Soil Biology and Biochemistry</i> , 2010 , 42, 373-375	7.5	50
74	Climatic warming and the future of bison as grazers. <i>Scientific Reports</i> , 2015 , 5, 16738	4.9	49
73	Evolutionary relationships in Panicoid grasses based on plastome phylogenomics (Panicoideae; Poaceae). <i>BMC Plant Biology</i> , 2016 , 16, 140	5.3	49
72	The role of plant species in biomass production and response to elevated CO ₂ and N. <i>Ecology Letters</i> , 2003 , 6, 623-625	10	48
71	Improved characterization of soil organic matter by thermal analysis using CO ₂ /H ₂ O evolved gas analysis. <i>Environmental Science & Technology</i> , 2012 , 46, 8921-7	10.3	45
70	Relationships between Biological and Thermal Indices of Soil Organic Matter Stability Differ with Soil Organic Carbon Level. <i>Soil Science Society of America Journal</i> , 2013 , 77, 2020-2028	2.5	45
69	Physiological drought tolerance and the structuring of tallgrass prairie assemblages. <i>Ecosphere</i> , 2011 , 2, art48	3.1	45
68	Consequences of climate variability for the performance of bison in tallgrass prairie. <i>Global Change Biology</i> , 2009 , 15, 772-779	11.4	43
67	Climate controls on grass culm production over a quarter century in a tallgrass prairie. <i>Ecology</i> , 2010 , 91, 2132-40	4.6	39
66	Measurement of leaf longevity of 14 species of grasses and forbs using a novel approach. <i>New Phytologist</i> , 1999 , 142, 475-481	9.8	39
65	Centennial-scale reductions in nitrogen availability in temperate forests of the United States. <i>Scientific Reports</i> , 2017 , 7, 7856	4.9	38
64	Resource limitation, tolerance, and the future of ecological plant classification. <i>Frontiers in Plant Science</i> , 2012 , 3, 246	6.2	37
63	Grazing and landscape controls on nitrogen availability across 330 South African savanna sites. <i>Austral Ecology</i> , 2009 , 34, 731-740	1.5	36
62	Earlier springs are causing reduced nitrogen availability in North American eastern deciduous forests. <i>Nature Plants</i> , 2016 , 2, 16133	11.5	33

61	Do grazers alter nitrogen dynamics on grazing lawns in a South African savannah?. <i>African Journal of Ecology</i> , 2011 , 49, 62-69	0.8	32
60	Determinants of growing season soil CO ₂ flux in a Minnesota grassland. <i>Biogeochemistry</i> , 2002 , 59, 303-318	3.1	31
59	Cohort variation in individual body mass dissipates with age in large herbivores. <i>Ecological Monographs</i> , 2016 , 86, 517-543	9	30
58	Elevated CO ₂ and nitrogen supply alter leaf longevity of grassland species. <i>New Phytologist</i> , 2001 , 150, 397-403	9.8	30
57	Community traitscape of foliar nitrogen isotopes reveals N availability patterns in a tallgrass prairie. <i>Plant and Soil</i> , 2012 , 356, 395-403	4.2	29
56	Functional consequences of climate change-induced plant species loss in a tallgrass prairie. <i>Oecologia</i> , 2011 , 165, 1109-17	2.9	29
55	Maternal allocation in bison: co-occurrence of senescence, cost of reproduction, and individual quality 2012 , 22, 1628-39		28
54	Global root traits (GRooT) database. <i>Global Ecology and Biogeography</i> , 2021 , 30, 25-37	6.1	28
53	Leaf shape and size track habitat transitions across forest-grassland boundaries in the grass family (Poaceae). <i>Evolution; International Journal of Organic Evolution</i> , 2019 , 73, 927-946	3.8	27
52	Identifying the diet of a declining prairie grouse using DNA metabarcoding. <i>Auk</i> , 2018 , 135, 583-608	2.1	27
51	Precipitation timing and grazer performance in a tallgrass prairie. <i>Oikos</i> , 2013 , 122, 191-198	4	27
50	Reduction of the temperature sensitivity of soil organic matter decomposition with sustained temperature increase. <i>Biogeochemistry</i> , 2013 , 113, 359-368	3.8	26
49	Foraging plasticity allows a large herbivore to persist in a sheltering forest habitat: DNA metabarcoding diet analysis of the European bison. <i>Forest Ecology and Management</i> , 2019 , 449, 117474	3.9	25
48	Biodiversity-ecosystem function relationships change through primary succession. <i>Oikos</i> , 2017 , 126, 1637-1649	4	23
47	Ecological consequences of shifting the timing of burning tallgrass prairie. <i>PLoS ONE</i> , 2014 , 9, e103423	3.7	23
46	The dependence of root system properties on root system biomass of 10 North American grassland species. <i>Plant and Soil</i> , 2003 , 250, 39-47	4.2	23
45	The resource economics of chemical and structural defenses across nitrogen supply gradients. <i>Oecologia</i> , 2003 , 137, 547-56	2.9	22
44	Isolation-driven functional assembly of plant communities on islands. <i>Ecography</i> , 2016 , 39, 1066-1077	6.5	21

43	Grassland species effects on soil CO ₂ flux track the effects of elevated CO ₂ and nitrogen. <i>New Phytologist</i> , 2001 , 150, 425-434	9.8	21
42	Global plant trait relationships extend to the climatic extremes of the tundra biome. <i>Nature Communications</i> , 2020 , 11, 1351	17.4	19
41	Robustness of trait connections across environmental gradients and growth forms. <i>Global Ecology and Biogeography</i> , 2019 , 28, 1806-1826	6.1	19
40	Long-term declines in dietary nutritional quality for North American cattle. <i>Environmental Research Letters</i> , 2017 , 12, 044019	6.2	19
39	Molecular analysis of environmental plant DNA in house dust across the United States. <i>Aerobiologia</i> , 2017 , 33, 71-86	2.4	19
38	Building EDENs: The Rise of Environmentally Distributed Ecological Networks. <i>BioScience</i> , 2007 , 57, 45-54	4.7	19
37	Species-specific trajectories of nitrogen isotopes in Indiana hardwood forests, USA. <i>Biogeosciences</i> , 2012 , 9, 867-874	4.6	17
36	The influence of biotic drivers on North American palaeorecords: alternatives to climate. <i>Holocene</i> , 2004 , 14, 787-791	2.6	17
35	NUTRIENTS IN SENESCED LEAVES:COMMENT. <i>Ecology</i> , 1998 , 79, 1818-1820	4.6	17
34	The roles of shifting and filtering in generating community-level flowering phenology. <i>Ecography</i> , 2012 , 35, 1033-1038	6.5	16
33	Inter- and intraspecific variation in leaf economic traits in wheat and maize. <i>AoB PLANTS</i> , 2018 , 10, ply006	6.9	15
32	Natural and anthropogenic drivers of calcium depletion in a northern forest during the last millennium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 6934-8	11.5	15
31	Plant strategy theories: replies to Grime and Tilman. <i>Journal of Ecology</i> , 2007 , 95, 235-240	6	15
30	Long-term climate sensitivity of grazer performance: a cross-site study. <i>PLoS ONE</i> , 2013 , 8, e67065	3.7	15
29	Continental-Scale Patterns Reveal Potential for Warming-Induced Shifts in Cattle Diet. <i>PLoS ONE</i> , 2016 , 11, e0161511	3.7	14
28	Correspondence between $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ in soils suggests coordinated fractionation processes for soil C and N. <i>Plant and Soil</i> , 2018 , 423, 257-271	4.2	14
27	The importance of precipitation timing for grassland productivity. <i>Plant Ecology</i> , 2013 , 214, 1085-1089	1.7	13
26	Interannual variability of pollen productivity and transport in mid-North America from 1997 to 2009. <i>Aerobiologia</i> , 2011 , 27, 181-189	2.4	13

25	High leaf tissue density grassland species consistently more abundant across topographic and disturbance contrasts in a North American tallgrass prairie. <i>Plant and Soil</i> , 2010 , 337, 193-203	4.2	12
24	correction: Plant diversity enhances ecosystem responses to elevated CO2 and nitrogen deposition. <i>Nature</i> , 2001 , 411, 824	50.4	12
23	Lack of eutrophication in a tallgrass prairie ecosystem over 27 years. <i>Ecology</i> , 2014 , 95, 1225-35	4.6	10
22	Continental scale variability of foliar nitrogen and carbon isotopes in <i>Populus balsamifera</i> and their relationships with climate. <i>Scientific Reports</i> , 2017 , 7, 7759	4.9	9
21	Spectroscopic Analysis of Canopy Nitrogen and Nitrogen Isotopes in Managed Pastures and Hay Land. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011 , 49, 2491-2498	8.1	9
20	The functional trait spectrum of European temperate grasslands. <i>Journal of Vegetation Science</i> , 2019 , 30, 777-788	3.1	8
19	Cessation of Burning Dries Soils Long Term in a Tallgrass Prairie. <i>Ecosystems</i> , 2014 , 17, 54-65	3.9	8
18	A Critical Examination of Timing of Burning in the Kansas Flint Hills. <i>Rangeland Ecology and Management</i> , 2016 , 69, 28-34	2.2	7
17	The Context of Plant Invasions in New Zealand: Evolutionary History and Novel Niches 2006 , 167-177		6
16	Climatic and soil factors explain the two-dimensional spectrum of global plant trait variation.. <i>Nature Ecology and Evolution</i> , 2021 ,	12.3	6
15	Evidence, causes, and consequences of declining nitrogen availability in terrestrial ecosystems.. <i>Science</i> , 2022 , 376, eabh3767	33.3	5
14	Increased C3 productivity in Midwestern lawns since 1982 revealed by carbon isotopes in <i>Amanita thiersii</i> . <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 280-288	3.7	4
13	Intra-annual bison body mass trajectories in a tallgrass prairie. <i>Mammal Research</i> , 2015 , 60, 263-270	1.8	4
12	Dynamic microbial populations along the Cuyahoga River. <i>PLoS ONE</i> , 2017 , 12, e0186290	3.7	4
11	Reply to: Data do not support large-scale oligotrophication of terrestrial ecosystems. <i>Nature Ecology and Evolution</i> , 2019 , 3, 1287-1288	12.3	3
10	DNA metabarcoding of the phytoplankton of Great Salt Lake's Gilbert Bay: Spatiotemporal assemblage changes and comparisons to microscopy. <i>Journal of Great Lakes Research</i> , 2021 , 48, 110-110 ³		3
9	Climate structures bison dietary quality and composition at the continental scale. <i>Environmental DNA</i> , 2020 , 2, 77-90	7.6	3
8	Looking back in time to reconstruct nitrogen availability trajectories. <i>Global Change Biology</i> , 2020 , 26, 5353-5355	11.4	2

7	Global Root Traits (GRoot) Database		2
6	Seasonal patterns of bison diet across climate gradients in North America. <i>Scientific Reports</i> , 2021 , 11, 6829	4.9	2
5	Mischaracterization of bison migratory patterns in Yellowstone National Park: Consequences for the Green Wave Hypothesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 9169-9170	11.5	1
4	Species-specific trajectories of nitrogen isotopes in Indiana hardwood forests, USA		1
3	DNA metabarcoding potentially reveals multi-assembly eutrophication responses in an eastern North American river		1
2	Teaching Biogeochemistry and Ecosystem Ecology in the United States: Survey Results. <i>Bulletin of the Ecological Society of America</i> , 2013 , 94, 105-106	0.7	
1	Nutrients in Senesced Leaves: Comment. <i>Ecology</i> , 1998 , 79, 1818	4.6	