

Lauchlan H Fraser

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9095381/publications.pdf>

Version: 2024-02-01

81
papers

3,575
citations

218677

26
h-index

144013

57
g-index

84
all docs

84
docs citations

84
times ranked

6388
citing authors

#	ARTICLE	IF	CITATIONS
1	Worldwide evidence of a unimodal relationship between productivity and plant species richness. <i>Science</i> , 2015, 349, 302-305.	12.6	315
2	Wet and Wonderful: The World's Largest Wetlands Are Conservation Priorities. <i>BioScience</i> , 2009, 59, 39-51.	4.9	285
3	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.	4.0	237
4	The database of the <sc>PREDICTS</sc> (Projecting Responses of Ecological Diversity In Changing) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.9	186
5	The <sc>PREDICTS</sc> database: a global database of how local terrestrial biodiversity responds to human impacts. <i>Ecology and Evolution</i> , 2014, 4, 4701-4735.	1.9	178
6	A test of four plant species to reduce total nitrogen and total phosphorus from soil leachate in subsurface wetland microcosms. <i>Bioresource Technology</i> , 2004, 94, 185-192.	9.6	166
7	Change in dominance determines herbivore effects on plant biodiversity. <i>Nature Ecology and Evolution</i> , 2018, 2, 1925-1932.	7.8	140
8	Adaptive phenotypic plasticity of <i>Pseudoroegneria spicata</i> : response of stomatal density, leaf area and biomass to changes in water supply and increased temperature. <i>Annals of Botany</i> , 2009, 103, 769-775.	2.9	135
9	Pushing precipitation to the extremes in distributed experiments: recommendations for simulating wet and dry years. <i>Global Change Biology</i> , 2017, 23, 1774-1782.	9.5	132
10	Temperature and pH define the realised niche space of arbuscular mycorrhizal fungi. <i>New Phytologist</i> , 2021, 231, 763-776.	7.3	126
11	Interacting effects of herbivory and fertility on a synthesized plant community. <i>Journal of Ecology</i> , 1999, 87, 514-525.	4.0	122
12	The role of experimental microcosms in ecological research. <i>Trends in Ecology and Evolution</i> , 1997, 12, 478-481.	8.7	109
13	A comparative approach to examine competitive response of 48 wetland plant species. <i>Journal of Vegetation Science</i> , 1998, 9, 777-786.	2.2	104
14	Effects of low and high nutrients on the competitive hierarchy of 26 shoreline plants. <i>Journal of Ecology</i> , 2000, 88, 413-423.	4.0	98
15	A call for applying trophic structure in ecological restoration. <i>Restoration Ecology</i> , 2015, 23, 503-507.	2.9	81
16	Response of grassland biomass production to simulated climate change and clipping along an elevation gradient. <i>Oecologia</i> , 2014, 174, 1065-1073.	2.0	64
17	Four general principles for the management and conservation of wetlands in large lakes: The role of water levels, nutrients, competitive hierarchies and centrifugal organization. <i>Lakes and Reservoirs: Research and Management</i> , 2000, 5, 177-185.	0.9	62
18	Global evidence of positive biodiversity effects on spatial ecosystem stability in natural grasslands. <i>Nature Communications</i> , 2019, 10, 3207.	12.8	59

#	ARTICLE	IF	CITATIONS
19	A comparative assessment of seedling survival and biomass accumulation for fourteen wetland plant species grown under minor water-depth differences. <i>Wetlands</i> , 2005, 25, 520-530.	1.5	58
20	A new model of carbon and phosphorus transfers in arbuscular mycorrhizas. <i>New Phytologist</i> , 2008, 177, 466-479.	7.3	44
21	Plant community functional shifts in response to livestock grazing in intermountain depressional wetlands in British Columbia, Canada. <i>Biological Conservation</i> , 2011, 144, 511-517.	4.1	42
22	A comparison of geographic datasets and field measurements to model soil carbon using random forests and stepwise regressions (British Columbia, Canada). <i>GIScience and Remote Sensing</i> , 2017, 54, 573-591.	5.9	41
23	Long term carbon sequestration potential of biosolids-amended copper and molybdenum mine tailings following mine site reclamation. <i>Ecological Engineering</i> , 2018, 117, 38-49.	3.6	40
24	Tracking Soil Temperature and Moisture in a Multi-Factor Climate Experiment in Temperate Grassland: Do Climate Manipulation Methods Produce their Intended Effects?. <i>Ecosystems</i> , 2011, 14, 489-502.	3.4	39
25	Climate change experiments in temperate grasslands: synthesis and future directions. <i>Biology Letters</i> , 2012, 8, 484-487.	2.3	38
26	TRYâ€”A plant trait database of databases. <i>Global Change Biology</i> , 2020, 26, 189-190.	9.5	38
27	Can competitive ability predict structure in experimental plant communities?. <i>Journal of Vegetation Science</i> , 2005, 16, 571-578.	2.2	28
28	Does Cattle Grazing Affect Ant Abundance and Diversity in Temperate Grasslands?. <i>Rangeland Ecology and Management</i> , 2012, 65, 292-298.	2.3	26
29	Livestock grazing in intermountain depressional wetlandsâ€”Effects on plant strategies, soil characteristics and biomass. <i>Agriculture, Ecosystems and Environment</i> , 2013, 175, 21-28.	5.3	26
30	The biology of Canadian weeds. 102. <i>Gaultheria shallon</i> Pursh.. <i>Canadian Journal of Plant Science</i> , 1993, 73, 1233-1247.	0.9	25
31	Effect of minor water depth treatments on competitive effect and response of eight wetland plants. <i>Plant Ecology</i> , 2008, 195, 33-43.	1.6	25
32	Large-scale manipulation of plant litter and fertilizer in a managed successional temperate grassland. <i>Plant Ecology</i> , 2008, 197, 183-195.	1.6	23
33	What drives plant species diversity? A global distributed test of the unimodal relationship between herbaceous species richness and plant biomass. <i>Journal of Vegetation Science</i> , 2014, 25, 1160-1166.	2.2	23
34	Genomics to assist mine reclamation: a review. <i>Restoration Ecology</i> , 2016, 24, 165-173.	2.9	23
35	Patterns of tree species richness in forested wetlands. <i>Wetlands</i> , 1999, 19, 639-647.	1.5	22
36	Plant community establishment in a restored wetland: Effects of soil removal. <i>Applied Vegetation Science</i> , 2007, 10, 383-390.	1.9	22

#	ARTICLE	IF	CITATIONS
37	Using three pairs of competitive indices to test for changes in plant competition under different resource and disturbance levels. <i>Journal of Vegetation Science</i> , 2010, 21, 1025-1034.	2.2	22
38	Phenotypic plasticity masks range-wide genetic differentiation for vegetative but not reproductive traits in a short-lived plant. <i>Ecology Letters</i> , 2021, 24, 2378-2393.	6.4	21
39	Life-cycle economic model of small treatment wetlands for domestic wastewater disposal. <i>Ecological Economics</i> , 2003, 44, 359-369.	5.7	20
40	Forecasting climate change impacts on the distribution of wetland habitat in the Midwestern United states. <i>Global Change Biology</i> , 2015, 21, 766-776.	9.5	20
41	Global soil microbiomes: A new frontline of biome ecology research. <i>Global Ecology and Biogeography</i> , 2022, 31, 1120-1132.	5.8	19
42	State of knowledge about energy development impacts on North American rangelands: An integrative approach. <i>Journal of Environmental Management</i> , 2016, 180, 1-9.	7.8	18
43	Increased Soil Frost Versus Summer Drought as Drivers of Plant Biomass Responses to Reduced Precipitation: Results from a Globally Coordinated Field Experiment. <i>Ecosystems</i> , 2018, 21, 1432-1444.	3.4	18
44	Effects of mycorrhizal inoculant, N:P supply ratio, and water depth on the growth and biomass allocation of three wetland plant species. <i>Canadian Journal of Botany</i> , 2005, 83, 1117-1125.	1.1	16
45	Not a melting pot: Plant species aggregate in their non-native range. <i>Global Ecology and Biogeography</i> , 2020, 29, 482-490.	5.8	16
46	Short-Term Effects of Changing Precipitation Patterns on Shrub-Steppe Grasslands: Seasonal Watering Is More Important than Frequency of Watering Events. <i>PLoS ONE</i> , 2016, 11, e0168663.	2.5	14
47	Global taxonomic and phylogenetic assembly of AM fungi. <i>Mycorrhiza</i> , 2022, 32, 135-144.	2.8	14
48	Short-term microbial effects of a large-scale mine-tailing storage facility collapse on the local natural environment. <i>PLoS ONE</i> , 2018, 13, e0196032.	2.5	12
49	A test of three juvenile plant competitive response strategies. <i>Journal of Vegetation Science</i> , 2006, 17, 11-18.	2.2	11
50	Dominance, diversity, and niche breadth in arbuscular mycorrhizal fungal communities. <i>Ecology</i> , 2022, 103, e3761.	3.2	11
51	Revegetation of degraded ecosystems into grasslands using biosolids as an organic amendment: A meta-analysis. <i>Applied Vegetation Science</i> , 2021, 24, .	1.9	10
52	Experimental tests of trophic dynamics: towards a more penetrating approach. <i>Oecologia</i> , 1999, 119, 281-284.	2.0	9
53	The use of digital photos to assess visual cover for wildlife in rangelands. <i>Journal of Environmental Management</i> , 2010, 91, 1366-1370.	7.8	9
54	Response to Comment on "Worldwide evidence of a unimodal relationship between productivity and plant species richness". <i>Science</i> , 2015, 350, 1177-1177.	12.6	9

#	ARTICLE	IF	CITATIONS
55	A Survey-Based Assessment of Cattle Producers'™ Adaptation to Climate Change in British Columbia, Canada. <i>Rangeland Ecology and Management</i> , 2015, 68, 119-130.	2.3	9
56	Predicting plant trait similarity along environmental gradients. <i>Plant Ecology</i> , 2016, 217, 1297-1306.	1.6	8
57	Livestock grazing in intermountain depressional wetlands: effects on breeding waterfowl. <i>Wetlands Ecology and Management</i> , 2017, 25, 471-484.	1.5	8
58	Priority effects: How the order of arrival of an invasive grass, <i>Bromus tectorum</i> , alters productivity and plant community structure when grown with native grass species. <i>Ecology and Evolution</i> , 2020, 10, 13173-13181.	1.9	8
59	Epigeal spider responses to fertilization and plant litter: testing biodiversity theory at the ground level. <i>Journal of Arachnology</i> , 2012, 40, 309-324.	0.5	7
60	Germination of 14 freshwater wetland plants as affected by oxygen and light. <i>Aquatic Botany</i> , 2014, 114, 29-34.	1.6	7
61	On the diversity of land plants. <i>Ecoscience</i> , 1999, 6, 366-380.	1.4	6
62	Is spotted knapweed (<i>Centaurea stoebe</i> L.) patch size related to the effect on soil and vegetation properties?. <i>Plant Ecology</i> , 2011, 212, 975-983.	1.6	6
63	Effects of salinity and clipping on biomass and competition between a halophyte and a glycophyte. <i>Plant Ecology</i> , 2013, 214, 433-442.	1.6	6
64	Temperate grassland songbird species accumulate incrementally along a gradient of primary productivity. <i>PLoS ONE</i> , 2017, 12, e0186809.	2.5	6
65	Response to Comment on "Worldwide evidence of a unimodal relationship between productivity and plant species richness". <i>Science</i> , 2016, 351, 457-457.	12.6	5
66	Are arthropod communities in grassland ecosystems affected by the abundance of an invasive plant?. <i>Oecologia</i> , 2021, 196, 1-12.	2.0	5
67	Soil nutrients and variation in biomass rather than native species richness influence introduced plant richness in a semi-arid grassland. <i>Basic and Applied Ecology</i> , 2021, 53, 62-73.	2.7	5
68	"Brown" World Invertebrates Contradict "Green" World Biodiversity Theory. <i>Research Letters in Ecology</i> , 2008, 2008, 1-4.	0.6	4
69	Native Seedling Colonization on Stockpiled Mine Soils Is Constrained by Site Conditions and Competition with Exotic Species. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 361.	2.0	4
70	The Management of Wetlands for Biological Diversity: Four Principles. , 2003, , 21-42.		4
71	Exploring trophic effects of spotted knapweed (<i>Centaurea stoebe</i> L.) on arthropod diversity using DNA metabarcoding. <i>Food Webs</i> , 2020, 24, e00157.	1.2	3
72	Grassland reclamation of a copper mine tailings facility: Long-term effects of biosolids on plant community responses. <i>Applied Vegetation Science</i> , 2021, 24, e12612.	1.9	3

#	ARTICLE	IF	CITATIONS
73	Stimulating a Canadian narrative for climate. <i>Facets</i> , 2017, 2, 131-149.	2.4	3
74	Can competitive ability predict structure in experimental plant communities?. <i>Journal of Vegetation Science</i> , 2005, 16, 571.	2.2	3
75	Spotted knapweed (<i>Centaurea stoebe</i>) creates a soil legacy effect by modulating soil elemental composition in a semi-arid grassland ecosystem. <i>Journal of Environmental Management</i> , 2022, 317, 115391.	7.8	3
76	Aphid fitness on 13 grass species: a test of plant defence theory. <i>Canadian Journal of Botany</i> , 2000, 77, 1783-1789.	1.1	1
77	The influence of sampled biomass on species-area relationships of grassland plants. <i>New Phytologist</i> , 2016, 211, 382-385.	7.3	1
78	Evaluation of the Use of Wetlands in Arsenic Sequestration of Mine-Influenced Effluent using Synchrotron XRF and XANES Spectroscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 516-517.	0.4	1
79	Roy Turkington and his legacy to the science of plant ecology. <i>Plant Ecology</i> , 2016, 217, 1291-1295.	1.6	0
80	Production changes in response to climate change. , 2019, , 82-97.		0
81	Debris Barriers Reduce the Effects of Livestock Grazing Along Streams After Timber Harvest. <i>Rangeland Ecology and Management</i> , 2022, 81, 1-8.	2.3	0