

Lauchlan H Fraser

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

3,575
citations

218592

26
h-index

143943

57
g-index

84
all docs

84
docs citations

84
times ranked

6388
citing authors

#	ARTICLE	IF	CITATIONS
1	Debris Barriers Reduce the Effects of Livestock Grazing Along Streams After Timber Harvest. <i>Rangeland Ecology and Management</i> , 2022, 81, 1-8.	1.1	0
2	Global taxonomic and phylogenetic assembly of AM fungi. <i>Mycorrhiza</i> , 2022, 32, 135-144.	1.3	14
3	Global soil microbiomes: A new frontline of biome ecology research. <i>Global Ecology and Biogeography</i> , 2022, 31, 1120-1132.	2.7	19
4	Dominance, diversity, and niche breadth in arbuscular mycorrhizal fungal communities. <i>Ecology</i> , 2022, 103, e3761.	1.5	11
5	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.	3.8	3
6	Are arthropod communities in grassland ecosystems affected by the abundance of an invasive plant?. <i>Oecologia</i> , 2021, 196, 1-12.	0.9	5
7	Revegetation of degraded ecosystems into grasslands using biosolids as an organic amendment: A meta-analysis. <i>Applied Vegetation Science</i> , 2021, 24, .	0.9	10
8	Temperature and pH define the realised niche space of arbuscular mycorrhizal fungi. <i>New Phytologist</i> , 2021, 231, 763-776.	3.5	126
9	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.	1.2	5
10	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.	3.0	21
11	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.	0.9	3
12	TRY – A plant trait database of databases. <i>Global Change Biology</i> , 2020, 26, 189-190.	4.2	38
13	Not a melting pot: Plant species aggregate in their non-native range. <i>Global Ecology and Biogeography</i> , 2020, 29, 482-490.	2.7	16
14	Exploring trophic effects of spotted knapweed (<i>Centaurea stoebe</i> L.) on arthropod diversity using DNA metabarcoding. <i>Food Webs</i> , 2020, 24, e00157.	0.5	3
15	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.	0.8	8
16	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.	0.8	4
17	Global evidence of positive biodiversity effects on spatial ecosystem stability in natural grasslands. <i>Nature Communications</i> , 2019, 10, 3207.	5.8	59
18	Production changes in response to climate change. , 2019, , 82-97.		0

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19	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.	1.6	18
20	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.	0.2	1
21	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.	1.1	12
22	Change in dominance determines herbivore effects on plant biodiversity. <i>Nature Ecology and Evolution</i> , 2018, 2, 1925-1932.	3.4	140
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.	1.6	40
24	Livestock grazing in intermountain depression wetlands: effects on breeding waterfowl. <i>Wetlands Ecology and Management</i> , 2017, 25, 471-484.	0.7	8
25	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.	2.4	41
26	The database of the <sc>PREDICTS</sc> (Projecting Responses of Ecological Diversity In Changing Tj ETQq0 0 0 rgBT /Overlock 10 T	0.8	186
27	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
28	Temperate grassland songbird species accumulate incrementally along a gradient of primary productivity. <i>PLoS ONE</i> , 2017, 12, e0186809.	1.1	6
29	Stimulating a Canadian narrative for climate. <i>Facets</i> , 2017, 2, 131-149.	1.1	3
30	Genomics to assist mine reclamation: a review. <i>Restoration Ecology</i> , 2016, 24, 165-173.	1.4	23
31	The influence of sampled biomass on speciesâ€“area relationships of grassland plants. <i>New Phytologist</i> , 2016, 211, 382-385.	3.5	1
32	Predicting plant trait similarity along environmental gradients. <i>Plant Ecology</i> , 2016, 217, 1297-1306.	0.7	8
33	State of knowledge about energy development impacts on North American rangelands: An integrative approach. <i>Journal of Environmental Management</i> , 2016, 180, 1-9.	3.8	18
34	Roy Turkington and his legacy to the science of plant ecology. <i>Plant Ecology</i> , 2016, 217, 1291-1295.	0.7	0
35	Response to Comment on â€œWorldwide evidence of a unimodal relationship between productivity and plant species richnessâ€œ. <i>Science</i> , 2016, 351, 457-457.	6.0	5
36	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.	1.1	14

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37	A call for applying trophic structure in ecological restoration. <i>Restoration Ecology</i> , 2015, 23, 503-507.	1.4	81
38	Response to Comment on "Worldwide evidence of a unimodal relationship between productivity and plant species richness". <i>Science</i> , 2015, 350, 1177-1177.	6.0	9
39	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.	1.1	9
40	Worldwide evidence of a unimodal relationship between productivity and plant species richness. <i>Science</i> , 2015, 349, 302-305.	6.0	315
41	Forecasting climate change impacts on the distribution of wetland habitat in the Midwestern United states. <i>Global Change Biology</i> , 2015, 21, 766-776.	4.2	20
42	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.	0.8	178
43	Germination of 14 freshwater wetland plants as affected by oxygen and light. <i>Aquatic Botany</i> , 2014, 114, 29-34.	0.8	7
44	Response of grassland biomass production to simulated climate change and clipping along an elevation gradient. <i>Oecologia</i> , 2014, 174, 1065-1073.	0.9	64
45	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.	1.1	23
46	Effects of salinity and clipping on biomass and competition between a halophyte and a glycophyte. <i>Plant Ecology</i> , 2013, 214, 433-442.	0.7	6
47	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
48	Livestock grazing in intermountain depressional wetlands"Effects on plant strategies, soil characteristics and biomass. <i>Agriculture, Ecosystems and Environment</i> , 2013, 175, 21-28.	2.5	26
49	Climate change experiments in temperate grasslands: synthesis and future directions. <i>Biology Letters</i> , 2012, 8, 484-487.	1.0	38
50	Epigeal spider responses to fertilization and plant litter: testing biodiversity theory at the ground level. <i>Journal of Arachnology</i> , 2012, 40, 309-324.	0.3	7
51	Does Cattle Grazing Affect Ant Abundance and Diversity in Temperate Grasslands?. <i>Rangeland Ecology and Management</i> , 2012, 65, 292-298.	1.1	26
52	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.	1.9	42
53	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.	0.7	6
54	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.	1.6	39

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55	The use of digital photos to assess visual cover for wildlife in rangelands. <i>Journal of Environmental Management</i> , 2010, 91, 1366-1370.	3.8	9
56	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.	1.1	22
57	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.	1.4	135
58	Wet and Wonderful: The World's Largest Wetlands Are Conservation Priorities. <i>BioScience</i> , 2009, 59, 39-51.	2.2	285
59	Effect of minor water depth treatments on competitive effect and response of eight wetland plants. <i>Plant Ecology</i> , 2008, 195, 33-43.	0.7	25
60	Large-scale manipulation of plant litter and fertilizer in a managed successional temperate grassland. <i>Plant Ecology</i> , 2008, 197, 183-195.	0.7	23
61	A new model of carbon and phosphorus transfers in arbuscular mycorrhizas. <i>New Phytologist</i> , 2008, 177, 466-479.	3.5	44
62	“Brown” World Invertebrates Contradict “Green” World Biodiversity Theory. <i>Research Letters in Ecology</i> , 2008, 2008, 1-4.	0.6	4
63	Plant community establishment in a restored wetland: Effects of soil removal. <i>Applied Vegetation Science</i> , 2007, 10, 383-390.	0.9	22
64	A test of three juvenile plant competitive response strategies. <i>Journal of Vegetation Science</i> , 2006, 17, 11-18.	1.1	11
65	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.	0.7	58
66	Can competitive ability predict structure in experimental plant communities?. <i>Journal of Vegetation Science</i> , 2005, 16, 571-578.	1.1	28
67	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.	1.2	16
68	Can competitive ability predict structure in experimental plant communities?. <i>Journal of Vegetation Science</i> , 2005, 16, 571.	1.1	3
69	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.	4.8	166
70	Life-cycle economic model of small treatment wetlands for domestic wastewater disposal. <i>Ecological Economics</i> , 2003, 44, 359-369.	2.9	20
71	The Management of Wetlands for Biological Diversity: Four Principles. , 2003, , 21-42.		4
72	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.	0.6	62

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73	Effects of low and high nutrients on the competitive hierarchy of 26 shoreline plants. <i>Journal of Ecology</i> , 2000, 88, 413-423.	1.9	98
74	Aphid fitness on 13 grass species: a test of plant defence theory. <i>Canadian Journal of Botany</i> , 2000, 77, 1783-1789.	1.2	1
75	Interacting effects of herbivory and fertility on a synthesized plant community. <i>Journal of Ecology</i> , 1999, 87, 514-525.	1.9	122
76	Patterns of tree species richness in forested wetlands. <i>Wetlands</i> , 1999, 19, 639-647.	0.7	22
77	Experimental tests of trophic dynamics: towards a more penetrating approach. <i>Oecologia</i> , 1999, 119, 281-284.	0.9	9
78	On the diversity of land plants. <i>Ecoscience</i> , 1999, 6, 366-380.	0.6	6
79	A comparative approach to examine competitive response of 48 wetland plant species. <i>Journal of Vegetation Science</i> , 1998, 9, 777-786.	1.1	104
80	The role of experimental microcosms in ecological research. <i>Trends in Ecology and Evolution</i> , 1997, 12, 478-481.	4.2	109
81	The biology of Canadian weeds. 102. <i>Gaultheria shallon</i> Pursh.. <i>Canadian Journal of Plant Science</i> , 1993, 73, 1233-1247.	0.3	25