Lauchlan H Fraser

List of Publications by Year
in descending order

81	3,575	218592	143943
papers	citations	26 h-index	57 g-index

84	84	84	6388
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Worldwide evidence of a unimodal relationship between productivity and plant species richness. Science, 2015, 349, 302-305.	6.0	315
2	Wet and Wonderful: The World's Largest Wetlands Are Conservation Priorities. BioScience, 2009, 59, 39-51.	2.2	285
3	Coordinated distributed experiments: an emerging tool for testing global hypotheses in ecology and environmental science. Frontiers in Ecology and the Environment, 2013, 11, 147-155.	1.9	237
4	The database of the <scp>PREDICTS</scp> (Projecting Responses of Ecological Diversity In Changing) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.8	186
5	The <scp>PREDICTS</scp> database: a global database of how local terrestrial biodiversity responds to human impacts. Ecology and Evolution, 2014, 4, 4701-4735.	0.8	178
6	A test of four plant species to reduce total nitrogen and total phosphorus from soil leachate in subsurface wetland microcosms. Bioresource Technology, 2004, 94, 185-192.	4.8	166
7	Change in dominance determines herbivore effects on plant biodiversity. Nature Ecology and Evolution, 2018, 2, 1925-1932.	3.4	140
8	Adaptive phenotypic plasticity of Pseudoroegneria spicata: response of stomatal density, leaf area and biomass to changes in water supply and increased temperature. Annals of Botany, 2009, 103, 769-775.	1.4	135
9	Pushing precipitation to the extremes in distributed experiments: recommendations for simulating wet and dry years. Global Change Biology, 2017, 23, 1774-1782.	4.2	132
10	Temperature and pH define the realised niche space of arbuscular mycorrhizal fungi. New Phytologist, 2021, 231, 763-776.	3.5	126
11	Interacting effects of herbivory and fertility on a synthesized plant community. Journal of Ecology, 1999, 87, 514-525.	1.9	122
12	The role of experimental microcosms in ecological research. Trends in Ecology and Evolution, 1997, 12, 478-481.	4.2	109
13	A comparative approach to examine competitive response of 48 wetland plant species. Journal of Vegetation Science, 1998, 9, 777-786.	1.1	104
14	Effects of low and high nutrients on the competitive hierarchy of 26 shoreline plants. Journal of Ecology, 2000, 88, 413-423.	1.9	98
15	A call for applying trophic structure in ecological restoration. Restoration Ecology, 2015, 23, 503-507.	1.4	81
16	Response of grassland biomass production to simulated climate change and clipping along an elevation gradient. Oecologia, 2014, 174, 1065-1073.	0.9	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. Lakes and Reservoirs: Research and Management, 2000, 5, 177-185.	0.6	62
18	Global evidence of positive biodiversity effects on spatial ecosystem stability in natural grasslands. Nature Communications, 2019, 10, 3207.	5.8	59

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19	A comparative assessment of seedling survival and biomass accumulation for fourteen wetland plant species grown under minor water-depth differences. Wetlands, 2005, 25, 520-530.	0.7	58
20	A new model of carbon and phosphorus transfers in arbuscular mycorrhizas. New Phytologist, 2008, 177, 466-479.	3.5	44
21	Plant community functional shifts in response to livestock grazing in intermountain depressional wetlands in British Columbia, Canada. Biological Conservation, 2011, 144, 511-517.	1.9	42
22	A comparison of geographic datasets and field measurements to model soil carbon using random forests and stepwise regressions (British Columbia, Canada). GIScience and Remote Sensing, 2017, 54, 573-591.	2.4	41
23	Long term carbon sequestration potential of biosolids-amended copper and molybdenum mine tailings following mine site reclamation. Ecological Engineering, 2018, 117, 38-49.	1.6	40
24	Tracking Soil Temperature and Moisture in a Multi-Factor Climate Experiment in Temperate Grassland: Do Climate Manipulation Methods Produce their Intended Effects?. Ecosystems, 2011, 14, 489-502.	1.6	39
25	Climate change experiments in temperate grasslands: synthesis and future directions. Biology Letters, 2012, 8, 484-487.	1.0	38
26	TRYâ€"A plant trait database of databases. Global Change Biology, 2020, 26, 189-190.	4.2	38
27	Can competitive ability predict structure in experimental plant communities?. Journal of Vegetation Science, 2005, 16, 571-578.	1.1	28
28	Does Cattle Grazing Affect Ant Abundance and Diversity in Temperate Grasslands?. Rangeland Ecology and Management, 2012, 65, 292-298.	1.1	26
29	Livestock grazing in intermountain depressional wetlandsâ€"Effects on plant strategies, soil characteristics and biomass. Agriculture, Ecosystems and Environment, 2013, 175, 21-28.	2.5	26
30	The biology of Canadian weeds. 102. Gaultheria shallon Pursh.. Canadian Journal of Plant Science, 1993, 73, 1233-1247.	0.3	25
31	Effect of minor water depth treatments on competitive effect and response of eight wetland plants. Plant Ecology, 2008, 195, 33-43.	0.7	25
32	Large-scale manipulation of plant litter and fertilizer in a managed successional temperate grassland. Plant Ecology, 2008, 197, 183-195.	0.7	23
33	What drives plant species diversity? A global distributed test of the unimodal relationship between herbaceous species richness and plant biomass. Journal of Vegetation Science, 2014, 25, 1160-1166.	1.1	23
34	Genomics to assist mine reclamation: a review. Restoration Ecology, 2016, 24, 165-173.	1.4	23
35	Patterns of tree species richness in forested wetlands. Wetlands, 1999, 19, 639-647.	0.7	22
36	Plant community establishment in a restored wetland: Effects of soil removal. Applied Vegetation Science, 2007, 10, 383-390.	0.9	22

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37	Using three pairs of competitive indices to test for changes in plant competition under different resource and disturbance levels. Journal of Vegetation Science, 2010, 21, 1025-1034.	1.1	22
38	Phenotypic plasticity masks rangeâ€wide genetic differentiation for vegetative but not reproductive traits in a shortâ€lived plant. Ecology Letters, 2021, 24, 2378-2393.	3.0	21
39	Life-cycle economic model of small treatment wetlands for domestic wastewater disposal. Ecological Economics, 2003, 44, 359-369.	2.9	20
40	Forecasting climate change impacts on the distribution of wetland habitat in the Midwestern United states. Global Change Biology, 2015, 21, 766-776.	4.2	20
41	Global soil microbiomes: A new frontline of biomeâ€ecology research. Global Ecology and Biogeography, 2022, 31, 1120-1132.	2.7	19
42	State of knowledge about energy development impacts on North American rangelands: An integrative approach. Journal of Environmental Management, 2016, 180, 1-9.	3.8	18
43	Increased Soil Frost Versus Summer Drought as Drivers of Plant Biomass Responses to Reduced Precipitation: Results from a Globally Coordinated Field Experiment. Ecosystems, 2018, 21, 1432-1444.	1.6	18
44	Effects of mycorrhizal inoculant, N:P supply ratio, and water depth on the growth and biomass allocation of three wetland plant species. Canadian Journal of Botany, 2005, 83, 1117-1125.	1.2	16
45	Not a melting pot: Plant species aggregate in their nonâ€native range. Global Ecology and Biogeography, 2020, 29, 482-490.	2.7	16
46	Short-Term Effects of Changing Precipitation Patterns on Shrub-Steppe Grasslands: Seasonal Watering Is More Important than Frequency of Watering Events. PLoS ONE, 2016, 11, e0168663.	1.1	14
47	Global taxonomic and phylogenetic assembly of AM fungi. Mycorrhiza, 2022, 32, 135-144.	1.3	14
48	Short-term microbial effects of a large-scale mine-tailing storage facility collapse on the local natural environment. PLoS ONE, 2018, 13, e0196032.	1.1	12
49	A test of three juvenile plant competitive response strategies. Journal of Vegetation Science, 2006, 17, 11-18.	1.1	11
50	Dominance, diversity, and niche breadth in arbuscular mycorrhizal fungal communities. Ecology, 2022, 103, e3761.	1.5	11
51	Revegetation of degraded ecosystems into grasslands using biosolids as an organic amendment: A metaâ€analysis. Applied Vegetation Science, 2021, 24, .	0.9	10
52	Experimental tests of trophic dynamics: towards a more penetrating approach. Oecologia, 1999, 119, 281-284.	0.9	9
53	The use of digital photos to assess visual cover for wildlife in rangelands. Journal of Environmental Management, 2010, 91, 1366-1370.	3.8	9
54	Response to Comment on â€œWorldwide evidence of a unimodal relationship between productivity and plant species richnessâ€. Science, 2015, 350, 1177-1177.	6.0	9

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55	A Survey-Based Assessment of Cattle Producersâ€™ Adaptation to Climate Change in British Columbia, Canada. Rangeland Ecology and Management, 2015, 68, 119-130.	1.1	9
56	Predicting plant trait similarity along environmental gradients. Plant Ecology, 2016, 217, 1297-1306.	0.7	8
57	Livestock grazing in intermountain depressional wetlands: effects on breeding waterfowl. Wetlands Ecology and Management, 2017, 25, 471-484.	0.7	8
58	Priority effects: How the order of arrival of an invasive grass, Bromus tectorum, alters productivity and plant community structure when grown with native grass species. Ecology and Evolution, 2020, 10, 13173-13181.	0.8	8
59	Epigeal spider responses to fertilization and plant litter: testing biodiversity theory at the ground level. Journal of Arachnology, 2012, 40, 309-324.	0.3	7
60	Germination of 14 freshwater wetland plants as affected by oxygen and light. Aquatic Botany, 2014, 114, 29-34.	0.8	7
61	On the diversity of land plants. Ecoscience, 1999, 6, 366-380.	0.6	6
62	Is spotted knapweed (Centaurea stoebe L.) patch size related to the effect on soil and vegetation properties?. Plant Ecology, 2011, 212, 975-983.	0.7	6
63	Effects of salinity and clipping on biomass and competition between a halophyte and a glycophyte. Plant Ecology, 2013, 214, 433-442.	0.7	6
64	Temperate grassland songbird species accumulate incrementally along a gradient of primary productivity. PLoS ONE, 2017, 12, e0186809.	1.1	6
65	Response to Comment on â€œWorldwide evidence of a unimodal relationship between productivity and plant species richnessâ€• Science, 2016, 351, 457-457.	6.0	5
66	Are arthropod communities in grassland ecosystems affected by the abundance of an invasive plant?. Oecologia, 2021, 196, 1-12.	0.9	5
67	Soil nutrients and variation in biomass rather than native species richness influence introduced plant richness in a semi-arid grassland. Basic and Applied Ecology, 2021, 53, 62-73.	1.2	5
68	â€œBrownâ€•World Invertebrates Contradict â€œGreenâ€•World Biodiversity Theory. Research Letters in Ecology, 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. Minerals (Basel, Switzerland), 2020, 10, 361.	0.8	4
70	The Management of Wetlands for Biological Diversity: Four Principles. , 2003, , 21-42.		4
71	Exploring trophic effects of spotted knapweed (Centaurea stoebe L.) on arthropod diversity using DNA metabarcoding. Food Webs, 2020, 24, e00157.	0.5	3
72	Grassland reclamation of a copper mine tailings facility: Longâ€term effects of biosolids on plant community responses. Applied Vegetation Science, 2021, 24, e12612.	0.9	3

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73	Stimulating a Canadian narrative for climate. Facets, 2017, 2, 131-149.	1.1	3
74	Can competitive ability predict structure in experimental plant communities?. Journal of Vegetation Science, 2005, 16, 571.	1.1	3
75	Spotted knapweed (Centaurea stoebe) creates a soil legacy effect by modulating soil elemental composition in a semi-arid grassland ecosystem. Journal of Environmental Management, 2022, 317, 115391.	3.8	3
76	Aphid fitness on 13 grass species: a test of plant defence theory. Canadian Journal of Botany, 2000, 77, 1783-1789.	1.2	1
77	The influence of sampled biomass on speciesâ€“area relationships of grassland plants. New Phytologist, 2016, 211, 382-385.	3.5	1
78	Evaluation of the Use of Wetlands in Arsenic Sequestration of Mine-Influenced Effluent using Synchrotron XRF and XANES Spectroscopy. Microscopy and Microanalysis, 2018, 24, 516-517.	0.2	1
79	Roy Turkington and his legacy to the science of plant ecology. Plant Ecology, 2016, 217, 1291-1295.	0.7	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. Rangeland Ecology and Management, 2022, 81, 1-8.	1.1	0