

Eric G Lamb

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

3,936
citations

218677

26
h-index

133252

59
g-index

81
all docs

81
docs citations

81
times ranked

6969
citing authors

#	ARTICLE	IF	CITATIONS
1	TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
2	Does phylogenetic relatedness influence the strength of competition among vascular plants?. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2008, 10, 41-50.	2.7	278
3	Plants Integrate Information About Nutrients and Neighbors. <i>Science</i> , 2010, 328, 1657-1657.	12.6	266
4	Soil fertility is associated with fungal and bacterial richness, whereas pH is associated with community composition in polar soil microbial communities. <i>Soil Biology and Biochemistry</i> , 2014, 78, 10-20.	8.8	243
5	Effects of plant species richness and evenness on soil microbial community diversity and function. <i>Plant and Soil</i> , 2011, 338, 483-495.	3.7	162
6	A High Arctic soil ecosystem resists long-term environmental manipulations. <i>Global Change Biology</i> , 2011, 17, 3187-3194.	9.5	140
7	DIRECT AND INDIRECT CONTROL OF GRASSLAND COMMUNITY STRUCTURE BY LITTER, RESOURCES, AND BIOMASS. <i>Ecology</i> , 2008, 89, 216-225.	3.2	113
8	Shoot, but not root, competition reduces community diversity in experimental mesocosms. <i>Journal of Ecology</i> , 2009, 97, 155-163.	4.0	104
9	Indices for monitoring biodiversity change: Are some more effective than others?. <i>Ecological Indicators</i> , 2009, 9, 432-444.	6.3	97
10	When Competition Does Not Matter: Grassland Diversity and Community Composition. <i>American Naturalist</i> , 2008, 171, 777-787.	2.1	91
11	Global root traits (GRooT) database. <i>Global Ecology and Biogeography</i> , 2021, 30, 25-37.	5.8	90
12	Increased competition does not lead to increased phylogenetic overdispersion in a native grassland. <i>Ecology Letters</i> , 2013, 16, 1168-1176.	6.4	89
13	Structural equation modeling in the plant sciences: An example using yield components in oat. <i>Canadian Journal of Plant Science</i> , 2011, 91, 603-619.	0.9	79
14	Water and nitrogen addition differentially impact plant competition in a native rough fescue grassland. <i>Plant Ecology</i> , 2007, 192, 21-33.	1.6	59
15	Smooth brome invasion increases rare soil bacterial species prevalence, bacterial species richness and evenness. <i>Journal of Ecology</i> , 2015, 103, 386-396.	4.0	59
16	Bryophyte-cyanobacterial associations as a key factor in N ₂ -fixation across the Canadian Arctic. <i>Plant and Soil</i> , 2011, 344, 335-346.	3.7	58
17	Structural equation modeling of a winnowed soil microbiome identifies how invasive plants re-structure microbial networks. <i>ISME Journal</i> , 2019, 13, 1988-1996.	9.8	57
18	Archaea and bacteria mediate the effects of native species root loss on fungi during plant invasion. <i>ISME Journal</i> , 2017, 11, 1261-1275.	9.8	50

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19	Plant competitive ability and the transitivity of competitive hierarchies change with plant age. <i>Plant Ecology</i> , 2012, 213, 15-23.	1.6	40
20	Core and Differentially Abundant Bacterial Taxa in the Rhizosphere of Field Grown Brassica napus Genotypes: Implications for Canola Breeding. <i>Frontiers in Microbiology</i> , 2019, 10, 3007.	3.5	39
21	Smooth brome changes gross soil nitrogen cycling processes during invasion of a rough fescue grassland. <i>Plant Ecology</i> , 2015, 216, 235-246.	1.6	38
22	Patch-background contrast and patch density have limited effects on root proliferation and plant performance in <i>Abutilon theophrasti</i> . <i>Functional Ecology</i> , 2004, 18, 836-843.	3.6	37
23	Spatially explicit structural equation modeling. <i>Ecology</i> , 2014, 95, 2434-2442.	3.2	37
24	Temporal changes in abundance-occupancy relationships within and between communities after disturbance. <i>Journal of Vegetation Science</i> , 2013, 24, 607-615.	2.2	36
25	Litter accumulation drives grassland plant community composition and functional diversity via leaf traits. <i>Plant Ecology</i> , 2015, 216, 357-370.	1.6	35
26	Plant species traits across a riparian-zone/forest ecotone. <i>Journal of Vegetation Science</i> , 2003, 14, 853-858.	2.2	31
27	Consequences of differing competitive abilities between juvenile and adult plants. <i>Oikos</i> , 2006, 112, 502-512.	2.7	31
28	Nitrogen addition impacts on soil microbial stoichiometry are driven by changes in plant resource stoichiometry not by the composition of main microbial groups in an alpine meadow. <i>Biology and Fertility of Soils</i> , 2020, 56, 261-271.	4.3	24
29	Patterns of Cross-Continental Variation in Tree Seed Mass in the Canadian Boreal Forest. <i>PLoS ONE</i> , 2013, 8, e61060.	2.5	23
30	Plant communities and soil properties mediate agricultural land use impacts on arbuscular mycorrhizal fungi in the Mixed Prairie ecoregion of the North American Great Plains. <i>Agriculture, Ecosystems and Environment</i> , 2017, 249, 187-195.	5.3	23
31	The early impact of adjacent clearcutting and forest fire on riparian zone vegetation in northwestern Ontario. <i>Forest Ecology and Management</i> , 2003, 177, 529-538.	3.2	22
32	A high-throughput belowground plant diversity assay using next-generation sequencing of the trnL intron. <i>Plant and Soil</i> , 2016, 404, 361-372.	3.7	22
33	Checkerboard score-area relationships reveal spatial scales of plant community structure. <i>Oikos</i> , 2018, 127, 415-426.	2.7	21
34	Spiking regional vis-NIR calibration models with local samples to predict soil organic carbon in two High Arctic polar deserts using a vis-NIR probe. <i>Canadian Journal of Soil Science</i> , 2015, 95, 237-249.	1.2	20
35	Relative influence of climate, soils, and disturbance on plant species richness in northern temperate and boreal forests. <i>Forest Ecology and Management</i> , 2016, 381, 93-105.	3.2	18
36	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

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37	Vegetation zonation among the microhabitats in a lacustrine environment: analysis and application of belowground species trait patterns. <i>Ecological Engineering</i> , 2001, 18, 135-146.	3.6	17
38	Cotyledon damage affects seed number through final plant size in the annual grassland species <i>Medicago lupulina</i> . <i>Annals of Botany</i> , 2011, 107, 437-442.	2.9	16
39	Early productivity and crude protein content of establishing forage swards composed of combinations of native grass and legume species in mixed-grassland ecoregions. <i>Canadian Journal of Plant Science</i> , 2013, 93, 445-454.	0.9	16
40	Root system size determines plant performance following short-term soil nutrient pulses. <i>Plant Ecology</i> , 2012, 213, 1803-1812.	1.6	15
41	Plant belowground diversity and species segregation by depth in a semi-arid grassland. <i>Ecoscience</i> , 2018, 25, 1-7.	1.4	15
42	Long-Term Efficacy of Glyphosate for Smooth Brome Control in Native Prairie. <i>Invasive Plant Science and Management</i> , 2017, 10, 350-355.	1.1	14
43	Comparison of Grassland Phenology Derived from MODIS Satellite and PhenoCam Near-Surface Remote Sensing in North America. <i>Canadian Journal of Remote Sensing</i> , 2019, 45, 707-722.	2.4	14
44	A survey of invasive plants on grassland soil microbial communities and ecosystem services. <i>Scientific Data</i> , 2020, 7, 86.	5.3	14
45	Limited effects of simulated acidic deposition on seedling survivorship and root morphology of endemic plant taxa of the Athabasca Sand Dunes in well-watered greenhouse trials. <i>Botany</i> , 2013, 91, 176-181.	1.0	13
46	Structural equation modeling of the Canadian flax (<i>Linum usitatissimum</i> L.) core collection for multiple phenotypic traits. <i>Canadian Journal of Plant Science</i> , 2014, 94, 1325-1332.	0.9	13
47	Interactions Between Root and Shoot Competition and Plant Traits. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2007, 42, 1110-1112.	1.0	13
48	Global pattern and associated drivers of grassland productivity sensitivity to precipitation change. <i>Science of the Total Environment</i> , 2022, 806, 151224.	8.0	13
49	Predicting Polycyclic Aromatic Hydrocarbon Bioavailability to Mammals from Incidentally Ingested Soils Using Partitioning and Fugacity. <i>Environmental Science & Technology</i> , 2016, 50, 1338-1346.	10.0	12
50	A NONLINEAR REGRESSION APPROACH TO TEST FOR SIZE-DEPENDENCE OF COMPETITIVE ABILITY. <i>Ecology</i> , 2006, 87, 1452-1457.	3.2	11
51	Mixtures of native perennial forage species produce higher yields than monocultures in a long-term study. <i>Canadian Journal of Plant Science</i> , 2018, 98, 633-647.	0.9	10
52	The Influence of Matrix Size on Statistical Properties of Co-Occurrence and Limiting Similarity Null Models. <i>PLoS ONE</i> , 2016, 11, e0151146.	2.5	10
53	Phenology-dependent root bacteria enhance yield of <i>Brassica napus</i> . <i>Soil Biology and Biochemistry</i> , 2022, 166, 108468.	8.8	10
54	Quantification of low-level genetically modified (GM) seed presence in large seed lots: a case study of GM seed in Canadian flax breeder seed lots. <i>Seed Science Research</i> , 2011, 21, 315-321.	1.7	9

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55	Assembling productive communities of native grass and legume species: finding the right mix. <i>Applied Vegetation Science</i> , 2016, 19, 111-121.	1.9	9
56	Quantifying Optimal Rates of Litter Retention to Maximize Annual Net Primary Productivity on Mixed-Grass Prairie. <i>Rangeland Ecology and Management</i> , 2017, 70, 219-224.	2.3	9
57	Herbicide Toxicity Testing with Non-Target Boreal Plants: The Sensitivity of <i>Achillea millefolium</i> L. and <i>Chamerion angustifolium</i> L. to Triclopyr and Imazapyr. <i>Environmental Management</i> , 2017, 60, 136-156.	2.7	8
58	The distribution, abundance, and environmental affinities of the endemic vascular plant taxa of the Athabasca Sand Dunes of northern Saskatchewan. <i>Ecoscience</i> , 2012, 19, 161-169.	1.4	6
59	<i>Salix arctica</i> changes root distribution and nutrient uptake in response to subsurface nutrients in High Arctic deserts. <i>Ecology</i> , 2017, 98, 2158-2169.	3.2	6
60	Long-term sand dune spatio-temporal dynamics and endemic plant habitat extent in the Athabasca sand dunes of northern Saskatchewan. <i>Remote Sensing in Ecology and Conservation</i> , 2019, 5, 70-86.	4.3	6
61	Prescribed Burning Has Limited Long-Term Effectiveness in Controlling Trembling Aspen (<i>Populus</i>) in the Yukon Territory, Canada. <i>Field-Naturalist</i> , 2013, 127, 50.	1.0	5
62	Linking Herbicide Dissipation to Soil Ecological Risk along Transmission Rights-of-Way in the Yukon Territory, Canada. <i>Journal of Environmental Quality</i> , 2018, 47, 1356-1364.	2.0	5
63	Environmental associations of <i>Hesperia dacotae</i> (Lepidoptera: Hesperidae) in southeastern Saskatchewan, Canada. <i>Canadian Entomologist</i> , 2018, 150, 652-662.	0.8	5
64	Extent of Dakota skipper, <i>Hesperia dacotae</i> , distribution in Southeastern Saskatchewan, Canada. <i>Journal of Insect Conservation</i> , 2020, 24, 1073-1081.	1.4	5
65	An intensive multilocation temporal dataset of fungal and bacterial communities in the root and rhizosphere of <i>Brassica napus</i> . <i>Data in Brief</i> , 2020, 31, 106143.	1.0	5
66	Relationships and influence of yield components on spaced plant and sward seed yield in perennial ryegrass. <i>Grass and Forage Science</i> , 2020, 75, 424-437.	2.9	5
67	Could Cryoturbid Diapirs Be Key for Understanding Ecological Feedbacks to Climate Change in High Arctic Polar Deserts?. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005263.	3.0	5
68	Plant responses to soil biota depend on precipitation history, plant diversity, and productivity. <i>Ecology</i> , 2022, 103, .	3.2	5
69	Ex-post assessment of genetically modified, low level presence in Canadian flax. <i>Transgenic Research</i> , 2017, 26, 399-409.	2.4	4
70	Yak Dung Deposition Affects Litter Mixing Effects on Mass Loss in Tibetan Alpine Grassland. <i>Rangeland Ecology and Management</i> , 2019, 72, 405-410.	2.3	4
71	Plant species traits across a riparian-zone/forest ecotone. <i>Journal of Vegetation Science</i> , 2003, 14, 853.	2.2	4
72	An intensive multilocation temporal dataset of fungal communities in the root and rhizosphere of <i>Brassica napus</i> . <i>Data in Brief</i> , 2020, 30, 105467.	1.0	3

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73	The Shoreline Fringe Forest and Adjacent Peatlands of the Southern Central British Columbia Coast. <i>Canadian Field-Naturalist</i> , 2003, 117, 209.	0.1	2
74	Irrigation but not N fertilization enhances seedhead density in plains rough fescue (<i>Festuca hallii</i>). <i>Grass and Forage Science</i> , 2013, 68, 120-124.	2.9	2
75	Modification of plant communities by bison in Riding Mountain National Park. <i>Ecoscience</i> , 2021, 28, 67-80.	1.4	2
76	Vegetative growth and belowground expansion from transplanted low Arctic tundra turfs. <i>Restoration Ecology</i> , 2023, 31, .	2.9	2
77	Seasonal patterns of forage quality in six native forb species. <i>Canadian Journal of Plant Science</i> , 0, , .	0.9	1
78	The silent carbon pool: Cryoturbic enriched organic matter in Canadian High Arctic semi-deserts. <i>Geoderma</i> , 2022, 415, 115781.	5.1	1
79	Impact of Diverse Annual Forage Mixtures on Weed Control in a Semiarid Environment. <i>Frontiers in Sustainable Food Systems</i> , 2020, 4, .	3.9	0