

Carly J Stevens

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

10,326
citations

81900

39
h-index

43889

91
g-index

97
all docs

97
docs citations

97
times ranked

10944
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of Nitrogen Deposition on the Species Richness of Grasslands. <i>Science</i> , 2004, 303, 1876-1879.	12.6	1,248
2	Consistent responses of soil microbial communities to elevated nutrient inputs in grasslands across the globe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10967-10972.	7.1	1,023
3	Herbivores and nutrients control grassland plant diversity via light limitation. <i>Nature</i> , 2014, 508, 517-520.	27.8	669
4	Plant diversity predicts beta but not alpha diversity of soil microbes across grasslands worldwide. <i>Ecology Letters</i> , 2015, 18, 85-95.	6.4	612
5	Productivity Is a Poor Predictor of Plant Species Richness. <i>Science</i> , 2011, 333, 1750-1753.	12.6	463
6	Eutrophication weakens stabilizing effects of diversity in natural grasslands. <i>Nature</i> , 2014, 508, 521-525.	27.8	409
7	Grassland productivity limited by multiple nutrients. <i>Nature Plants</i> , 2015, 1, 15080.	9.3	403
8	Addition of multiple limiting resources reduces grassland diversity. <i>Nature</i> , 2016, 537, 93-96.	27.8	355
9	Changes in species richness and composition in European acidic grasslands over the past 70 years: the contribution of cumulative atmospheric nitrogen deposition. <i>Global Change Biology</i> , 2010, 16, 344-357.	9.5	339
10	Nitrogen deposition threatens species richness of grasslands across Europe. <i>Environmental Pollution</i> , 2010, 158, 2940-2945.	7.5	316
11	Conditional vulnerability of plant diversity to atmospheric nitrogen deposition across the United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4086-4091.	7.1	287
12	Nitrogen deposition causes widespread loss of species richness in British habitats. <i>Global Change Biology</i> , 2010, 16, 671-679.	9.5	259
13	Nitrogen in the environment. <i>Science</i> , 2019, 363, 578-580.	12.6	242
14	Loss of forb diversity in relation to nitrogen deposition in the UK: regional trends and potential controls. <i>Global Change Biology</i> , 2006, 12, 1823-1833.	9.5	200
15	Local loss and spatial homogenization of plant diversity reduce ecosystem multifunctionality. <i>Nature Ecology and Evolution</i> , 2018, 2, 50-56.	7.8	172
16	Lifeâ€history constraints in grassland plant species: a growthâ€defence tradeâ€off is the norm. <i>Ecology Letters</i> , 2013, 16, 513-521.	6.4	165
17	Contribution of acidification and eutrophication to declines in species richness of calcifuge grasslands along a gradient of atmospheric nitrogen deposition. <i>Functional Ecology</i> , 2010, 24, 478-484.	3.6	151
18	Anthropogenic nitrogen deposition predicts local grassland primary production worldwide. <i>Ecology</i> , 2015, 96, 1459-1465.	3.2	143

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19	Plant species's origin predicts dominance and response to nutrient enrichment and herbivores in global grasslands. <i>Nature Communications</i> , 2015, 6, 7710.	12.8	143
20	Ecosystem responses to reduced and oxidised nitrogen inputs in European terrestrial habitats. <i>Environmental Pollution</i> , 2011, 159, 665-676.	7.5	132
21	Impact of nitrogen deposition at the species level. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 984-987.	7.1	126
22	Soil heterogeneity buffers community response to climate change in species-rich grassland. <i>Global Change Biology</i> , 2011, 17, 2002-2011.	9.5	116
23	Atmospheric nitrogen deposition in terrestrial ecosystems: Its impact on plant communities and consequences across trophic levels. <i>Functional Ecology</i> , 2018, 32, 1757-1769.	3.6	116
24	Regional trends in soil acidification and exchangeable metal concentrations in relation to acid deposition rates. <i>Environmental Pollution</i> , 2009, 157, 313-319.	7.5	101
25	Leaf nutrients, not specific leaf area, are consistent indicators of elevated nutrient inputs. <i>Nature Ecology and Evolution</i> , 2019, 3, 400-406.	7.8	97
26	The Role of Nitrogen Deposition in Widespread Plant Community Change Across Semi-natural Habitats. <i>Ecosystems</i> , 2014, 17, 864-877.	3.4	86
27	How long do ecosystems take to recover from atmospheric nitrogen deposition?. <i>Biological Conservation</i> , 2016, 200, 160-167.	4.1	80
28	Nitrogen processes in terrestrial ecosystems. , 2011, , 99-125.		77
29	Sensitivity of global soil carbon stocks to combined nutrient enrichment. <i>Ecology Letters</i> , 2019, 22, 936-945.	6.4	75
30	General destabilizing effects of eutrophication on grassland productivity at multiple spatial scales. <i>Nature Communications</i> , 2020, 11, 5375.	12.8	75
31	Nitrogen as a threat to European terrestrial biodiversity. , 2011, , 463-494.		73
32	The impact of nitrogen deposition on acid grasslands in the Atlantic region of Europe. <i>Environmental Pollution</i> , 2011, 159, 2243-2250.	7.5	67
33	Long-term changes in calcareous grassland vegetation in North-western Germany – No decline in species richness, but a shift in species composition. <i>Biological Conservation</i> , 2014, 172, 170-179.	4.1	64
34	Personal nitrogen footprint tool for the United Kingdom. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 1563-1569.	3.5	62
35	Increasing effects of chronic nutrient enrichment on plant diversity loss and ecosystem productivity over time. <i>Ecology</i> , 2021, 102, e03218.	3.2	62
36	The ecosystem services of urban soils: A review. <i>Geoderma</i> , 2021, 395, 115076.	5.1	62

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37	Changes in species composition of European acid grasslands observed along a gradient of nitrogen deposition. <i>Journal of Vegetation Science</i> , 2011, 22, 207-215.	2.2	60
38	Belowground competition drives invasive plant impact on native species regardless of nitrogen availability. <i>Oecologia</i> , 2018, 186, 577-587.	2.0	58
39	Soil net nitrogen mineralisation across global grasslands. <i>Nature Communications</i> , 2019, 10, 4981.	12.8	57
40	Potential vulnerability of 348 herbaceous species to atmospheric deposition of nitrogen and sulfur in the United States. <i>Nature Plants</i> , 2019, 5, 697-705.	9.3	52
41	Nutrient availability controls the impact of mammalian herbivores on soil carbon and nitrogen pools in grasslands. <i>Global Change Biology</i> , 2020, 26, 2060-2071.	9.5	43
42	Herbivory and eutrophication mediate grassland plant nutrient responses across a global climatic gradient. <i>Ecology</i> , 2018, 99, 822-831.	3.2	42
43	More salt, please: global patterns, responses and impacts of foliar sodium in grasslands. <i>Ecology Letters</i> , 2019, 22, 1136-1144.	6.4	42
44	Environmental myopia: a diagnosis and a remedy. <i>Trends in Ecology and Evolution</i> , 2010, 25, 556-561.	8.7	40
45	Negative effects of nitrogen override positive effects of phosphorus on grassland legumes worldwide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	40
46	Spatial heterogeneity in species composition constrains plant community responses to herbivory and fertilisation. <i>Ecology Letters</i> , 2018, 21, 1364-1371.	6.4	38
47	Nutrients cause grassland biomass to outpace herbivory. <i>Nature Communications</i> , 2020, 11, 6036.	12.8	35
48	Understanding how changing soil nitrogen affects plant-pollinator interactions. <i>Arthropod-Plant Interactions</i> , 2019, 13, 671-684.	1.1	35
49	Increasing Soil Nutrient Loads of European Semi-natural Grasslands Strongly Alter Plant Functional Diversity Independently of Species Loss. <i>Ecosystems</i> , 2014, 17, 169-181.	3.4	34
50	Belowground Biomass Response to Nutrient Enrichment Depends on Light Limitation Across Globally Distributed Grasslands. <i>Ecosystems</i> , 2019, 22, 1466-1477.	3.4	34
51	The impact of air pollution on terrestrial managed and natural vegetation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190317.	3.4	31
52	Response to Comments on "Productivity Is a Poor Predictor of Plant Species Richness". <i>Science</i> , 2012, 335, 1441-1441.	12.6	30
53	The effect of nitrogen deposition on the species richness of acid grasslands in Denmark: A comparison with a study performed on a European scale. <i>Environmental Pollution</i> , 2011, 159, 1778-1782.	7.5	29
54	Soil properties as key predictors of global grassland production: Have we overlooked micronutrients?. <i>Ecology Letters</i> , 2021, 24, 2713-2725.	6.4	28

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55	Impacts of nitrogen deposition on vascular plants in Britain: an analysis of two national observation networks. <i>Biogeosciences</i> , 2011, 8, 3501-3518.	3.3	27
56	Regional Contingencies in the Relationship between Aboveground Biomass and Litter in the World's Grasslands. <i>PLoS ONE</i> , 2013, 8, e54988.	2.5	27
57	Global impacts of fertilization and herbivore removal on soil net nitrogen mineralization are modulated by local climate and soil properties. <i>Global Change Biology</i> , 2020, 26, 7173-7185.	9.5	25
58	Nitrogen deposition and climate: an integrated synthesis. <i>Trends in Ecology and Evolution</i> , 2022, 37, 541-552.	8.7	25
59	Biological Flora of the British Isles: <i>Campanula rotundifolia</i> . <i>Journal of Ecology</i> , 2012, 100, 821-839.	4.0	23
60	Addressing the Impact of Atmospheric Nitrogen Deposition on Western European Grasslands. <i>Environmental Management</i> , 2011, 48, 885-894.	2.7	22
61	An integrated belowground trait-based understanding of nitrogen-driven plant diversity loss. <i>Global Change Biology</i> , 2022, 28, 3651-3664.	9.5	22
62	Drivers of vegetation change in grasslands of the Sheffield region, northern England, between 1965 and 2012/13. <i>Applied Vegetation Science</i> , 2016, 19, 187-195.	1.9	20
63	Detecting the footprint of changing atmospheric nitrogen deposition loads on acid grasslands in the context of climate change. <i>Global Change Biology</i> , 2011, 17, 3351-3365.	9.5	19
64	Terricolous lichens as indicators of nitrogen deposition: Evidence from national records. <i>Ecological Indicators</i> , 2012, 20, 196-203.	6.3	18
65	Nutrients and herbivores impact grassland stability across spatial scales through different pathways. <i>Global Change Biology</i> , 2022, 28, 2678-2688.	9.5	18
66	Nutrient identity modifies the destabilising effects of eutrophication in grasslands. <i>Ecology Letters</i> , 2022, 25, 754-765.	6.4	17
67	How will the semi-natural vegetation of the UK have changed by 2030 given likely changes in nitrogen deposition?. <i>Environmental Pollution</i> , 2016, 208, 879-889.	7.5	16
68	Urban soil microbial community and microbial-related carbon storage are severely limited by sealing. <i>Journal of Soils and Sediments</i> , 2021, 21, 1455-1465.	3.0	16
69	Differences in yield, Ellenberg N value, tissue chemistry and soil chemistry 15 years after the cessation of nitrogen addition. <i>Plant and Soil</i> , 2012, 357, 309-319.	3.7	15
70	What is the most ecologically-meaningful metric of nitrogen deposition?. <i>Environmental Pollution</i> , 2019, 247, 319-331.	7.5	15
71	Intra-specific spatial aggregation in acidic grasslands: effects of acidification and nitrogen deposition on spatial patterns of plant communities. <i>Journal of Vegetation Science</i> , 2013, 24, 25-32.	2.2	14
72	Effect of nitrogen addition, form and clipping on competitive interactions between grassland species. <i>Journal of Plant Ecology</i> , 2014, 7, 222-230.	2.3	14

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73	Temporal rarity is a better predictor of local extinction risk than spatial rarity. <i>Ecology</i> , 2021, 102, e03504.	3.2	14
74	Recent advances in understanding grasslands. <i>F1000Research</i> , 2018, 7, 1363.	1.6	14
75	Effects of the frequency and the rate of N enrichment on community structure in a temperate grassland. <i>Journal of Plant Ecology</i> , 2018, 11, 685-695.	2.3	12
76	Spatial turnover of multiple ecosystem functions is more associated with plant than soil microbial diversity. <i>Ecosphere</i> , 2021, 12, e03644.	2.2	12
77	Dominant native and non-native graminoids differ in key leaf traits irrespective of nutrient availability. <i>Global Ecology and Biogeography</i> , 2020, 29, 1126-1138.	5.8	11
78	The effects of sealing on urban soil carbon and nutrients. <i>Soil</i> , 2021, 7, 661-675.	4.9	11
79	Nitrogen but not phosphorus addition affects symbiotic N ₂ fixation by legumes in natural and semi-natural grasslands located on four continents. <i>Plant and Soil</i> , 2022, 478, 689-707.	3.7	11
80	Ambient nitrogen deposition drives plant diversity decline by nitrogen accumulation in a closed grassland ecosystem. <i>Journal of Applied Ecology</i> , 2021, 58, 1888-1898.	4.0	10
81	Grassland species composition and biogeochemistry in 153 sites along environmental gradients in Europe. <i>Ecology</i> , 2011, 92, 1544-1544.	3.2	9
82	Testing the influence of topography and material properties on catchment-scale soil moisture patterns using remotely sensed vegetation patterns in a humid temperate catchment, northern Britain. <i>Hydrological Processes</i> , 2013, 27, 1223-1237.	2.6	9
83	Differential Effects of Oxidised and Reduced Nitrogen on Vegetation and Soil Chemistry of Species-Rich Acidic Grasslands. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	2.4	8
84	Spatial gradient in nitrogen deposition affects plant species frequency in acidic grasslands. <i>Oecologia</i> , 2015, 177, 39-51.	2.0	8
85	Point Source Ammonia Emissions are Having a Detrimental Impact On Prairie Vegetation. <i>Water, Air, and Soil Pollution</i> , 2010, 211, 435-441.	2.4	7
86	Disparities between plant community responses to nitrogen deposition and critical loads in UK semi-natural habitats. <i>Atmospheric Environment</i> , 2020, 239, 117478.	4.1	7
87	Using Minecraft to engage children with science at public events. <i>Research for All</i> , 0, 3, .	0.4	7
88	Impacts of nutrient addition on soil carbon and nitrogen stoichiometry and stability in globally-distributed grasslands. <i>Biogeochemistry</i> , 2022, 159, 353-370.	3.5	5
89	Framing nitrogen pollution in the British press: 1984-2018. <i>Discourse and Communication</i> , 2020, 14, 84-103.	1.7	4
90	Science Hunters: teaching science concepts in schools using Minecraft. , 2019, 2, 13-21.		4

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91	C4 trees have a broader niche than their close C3 relatives. <i>Journal of Experimental Botany</i> , 2022, 73, 3189-3204.	4.8	4
92	Towards the integration of urban planning and biodiversity conservation through collaboration. <i>Environmental Technology and Innovation</i> , 2015, 4, 218-226.	6.1	3
93	Raising awareness about food security using a massive open online course. <i>Plants People Planet</i> , 2020, 2, 140-143.	3.3	2
94	Spatio-temporal challenges in representing wildlife disturbance within a GIS. <i>Environmental Technology and Innovation</i> , 2017, 7, 44-53.	6.1	1
95	Investing in the future of science: Assessing UK environmental science engagement with school-aged children. <i>Plants People Planet</i> , 0, , .	3.3	0