William D Bowman

List of Publications by Year
in descending order

59 papers	6,397 citations	126907 33 h-index	138484 58 g-index
62 all docs	62 docs citations	62 times ranked	7878 citing authors

#	Article	IF	Citations
1	Do tradeâ€offs govern plant speciesâ€™ responses to different global change treatments?. Ecology, 2022, 103, e3626.	3.2	5
2	Temporal variability in production is not consistently affected by global change drivers across herbaceous-dominated ecosystems. Oecologia, 2020, 194, 735-744.	2.0	8
3	Testing invasion filters for the alpine: the roles of temperature, nitrogen deposition and soil. Biological Invasions, 2020, 22, 1889-1901.	2.4	4
4	Do plantâ€"microbe interactions and aluminum tolerance influence alpine sedge speciesâ€™ responses to nitrogen deposition?. Ecosphere, 2019, 10, e02775.	2.2	1
5	Global change effects on plant communities are magnified by time and the number of global change factors imposed. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17867-17873.	7.1	141
6	Potential vulnerability of 348 herbaceous species to atmospheric deposition of nitrogen and sulfur in the United States. Nature Plants, 2019, 5, 697-705.	9.3	52
7	Limited Ecosystem Recovery from Simulated Chronic Nitrogen Deposition. Bulletin of the Ecological Society of America, 2019, 100, e01447.	0.2	0
8	The roles of stochasticity and biotic interactions in the spatial patterning of plant species in alpine communities. Journal of Vegetation Science, 2018, 29, 25-33.	2.2	10
9	Ambient changes exceed treatment effects on plant species abundance in global change experiments. Global Change Biology, 2018, 24, 5668-5679.	9.5	25
10	Limited ecosystem recovery from simulated chronic nitrogen deposition. Ecological Applications, 2018, 28, 1762-1772.	3.8	40
11	Asynchrony among local communities stabilises ecosystem function of metacommunities. Ecology Letters, 2017, 20, 1534-1545.	6.4	136
12	Conditional vulnerability of plant diversity to atmospheric nitrogen deposition across the United States. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4086-4091.	7.1	287
13	An overview of research from a high elevation landscape: the Niwot Ridge, Colorado Long Term Ecological Research programme. Plant Ecology and Diversity, 2015, 8, 597-605.	2.4	18
14	Plantâ€"microbe interactions at multiple scales across a high-elevation landscape. Plant Ecology and Diversity, 2015, 8, 703-712.	2.4	15
15	A slide down a slippery slope â€" alpine ecosystem responses to nitrogen deposition. Plant Ecology and Diversity, 2015, 8, 727-738.	2.4	27
16	Soil bacterial community structure remains stable over a 5-year chronosequence of insect-induced tree mortality. Frontiers in Microbiology, 2014, 5, 681.	3.5	26
17	How Much is too Much? Nitrogen Critical Loads and Eutrophication and Acidification in Oligotrophic Ecosystems. , 2014, , 305-310.		1
18	Interactive effects of anthropogenic nitrogen enrichment and climate change on terrestrial and aquatic biodiversity. Biogeochemistry, 2013, 114, 93-120.	3.5	93

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19	Changes in alpine vegetation over 21 years: Are patterns across a heterogeneous landscape consistent with predictions?. Ecosphere, 2013, 4, 1-18.	2.2	78
20	Landscape-level nitrogen import and export in an ecosystem with complex terrain, Colorado Front Range. Biogeochemistry, 2012, 109, 271-285.	3.5	21
21	Nitrogen critical loads for alpine vegetation and soils in Rocky Mountain National Park. Journal of Environmental Management, 2012, 103, 165-171.	7.8	85
22	Testing the Feasibility of Using the ForSAFE-VEG Model to Map the Critical Load of Nitrogen to Protect Plant Biodiversity in the Rocky Mountains Region, USA. Water, Air, and Soil Pollution, 2012, 223, 371-387.	2.4	23
23	Nitrogen deposition decreases acid buffering capacity of alpine soils in the southern Rocky Mountains. Geoderma, 2011, 164, 220-224.	5.1	62
24	Hot Spots of Inorganic Nitrogen Availability in an Alpine-Subalpine Ecosystem, Colorado Front Range. Ecosystems, 2011, 14, 848-863.	3.4	33
25	Fine root inputs to soil reduce growth of a neighbouring plant via distinct mechanisms dependent on root carbon chemistry. Journal of Ecology, 2009, 97, 941-949.	4.0	32
26	Negative impact of nitrogen deposition on soil buffering capacity. Nature Geoscience, 2008, 1, 767-770.	12.9	530
27	The effects of chronic nitrogen fertilization on alpine tundra soil microbial communities: implications for carbon and nitrogen cycling. Environmental Microbiology, 2008, 10, 3093-3105.	3.8	252
28	Carbon flux from plants to soil: roots are a belowâ€ground source of phenolic secondary compounds in an alpine ecosystem. Journal of Ecology, 2008, 96, 421-430.	4.0	31
29	SPECIES RESPONSES TO NITROGEN FERTILIZATION IN HERBACEOUS PLANT COMMUNITIES, AND ASSOCIATED SPECIES TRAITSEcological ArchivesE089-070. Ecology, 2008, 89, 1175-1175.	3.2	20
30	Links between plant litter chemistry, species diversity, and below-ground ecosystem function. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19780-19785.	7.1	273
31	PLANT AND MICROBE CONTRIBUTION TO COMMUNITY RESILIENCE IN A DIRECTIONALLY CHANGING ENVIRONMENT. Ecological Monographs, 2008, 78, 313-329.	5.4	62
32	The consequence of species loss on ecosystem nitrogen cycling depends on community compensation. Oecologia, 2006, 149, 141-149.	2.0	41
33	Nitrogen Critical Loads For Alpine Vegetation And Terrestrial Ecosystem Response: Are We There Yet?. , 2006, 16, 1183-1193.		186
34	Litter N retention over winter for a low and a high phenolic species in the alpine tundra. Plant and Soil, 2005, 275, 361-370.	3.7	19
35	A temporal approach to linking aboveground and belowground ecology. Trends in Ecology and Evolution, 2005, 20, 634-641.	8.7	706
36	Litter effects of two co-occurring alpine species on plant growth, microbial activity and immobilization of nitrogen. Oikos, 2004, 104, 336-344.	2.7	69

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37	Species effects on resource supply rates: do they influence competitive interactions?. Plant Ecology, 2004, 175, 47-58.	1.6	42
38	Alpine Landscape Variation in Foliar Nitrogen and Phosphorus Concentrations and the Relation to Soil Nitrogen and Phosphorus Availability. Arctic, Antarctic, and Alpine Research, 2003, 35, 144-149.	1.1	52
39	Lack of reproductive plasticity in alpine Saxifraga rhomboidea (Saxifragaceae). Nordic Journal of Botany, 2002, 22, 361-368.	0.5	4
40	Variation in nitrogen-15 natural abundance and nitrogen uptake traits among co-occurring alpine species: do species partition by nitrogen form?. Oecologia, 2002, 130, 609-616.	2.0	149
41	Influence of a pulsed nitrogen supply on growth and nitrogen uptake in alpine graminoids. Plant and Soil, 2001, 233, 283-290.	3.7	33
42	Early Spring Nitrogen Uptake by Snow-Covered Plants: A Comparison of Arctic and Alpine Plant Function under the Snowpack. Arctic, Antarctic, and Alpine Research, 2000, 32, 404-411.	1.1	85
43	Early Spring Nitrogen Uptake by Snow-Covered Plants: A Comparison of Arctic and Alpine Plant Function under the Snowpack. Arctic, Antarctic, and Alpine Research, 2000, 32, 404.	1.1	66
44	Biotic Controls over Ecosystem Response to Environmental Change in Alpine Tundra of the Rocky Mountains. Ambio, 2000, 29, 396-400.	5.5	18
45	Altitudinal Variation in Leaf Gas Exchange, Nitrogen and Phosphorus Concentrations, and Leaf Mass per Area in Populations of <i>Frasera speciosa</i>. Arctic, Antarctic, and Alpine Research, 1999, 31, 191-195.	1.1	10
46	GENERALITY OF LEAF TRAIT RELATIONSHIPS: A TEST ACROSS SIX BIOMES. Ecology, 1999, 80, 1955-1969.	3.2	1,091
47	Altitudinal Variation in Leaf Gas Exchange, Nitrogen and Phosphorus Concentrations, and Leaf Mass per Area in Populations of Frasera speciosa. Arctic, Antarctic, and Alpine Research, 1999, 31, 191.	1.1	7
48	Relationships of leaf dark respiration to leaf nitrogen, specific leaf area and leaf life-span: a test across biomes and functional groups. Oecologia, 1998, 114, 471-482.	2.0	441
49	Influence of N 2 -fixing Trifolium on plant species composition and biomass production in alpine tundra. Oecologia, 1998, 115, 26-31.	2.0	43
50	Original Articles: Differential Influence of Plant Species on Soil Nitrogen Transformations Within Moist Meadow Alpine Tundra. Ecosystems, 1998, 1, 464-474.	3.4	88
51	The Influence of Interspecific Competition on the Distribution of an Alpine Graminoid: Evidence for the Importance of Plant Competition in an Extreme Environment. Oikos, 1997, 79, 101.	2.7	39
52	NUTRIENT AVAILABILITY, PLANT ABUNDANCE, AND SPECIES DIVERSITY IN TWO ALPINE TUNDRA COMMUNITIES. Ecology, 1997, 78, 1861-1872.	3.2	155
53	Symbiotic N2-fixation in alpine tundra: ecosystem input and variation in fixation rates among communities. Oecologia, 1996, 108, 345-350.	2.0	50
54	Uptake and Allocation of 15 N in Alpine Plants: Implications for the Importance of Competitive Ability in Predicting Community Structure in a Stressful Environment. Oikos, 1996, 75, 59.	2.7	50

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55	Physiological and production responses of plant growth forms to increases in limiting resources in alpine tundra: implications for differential community response to environmental change. Oecologia, 1995, 101, 217-227.	2.0	110
56	Constraints of Nutrient Availability on Primary Production in Two Alpine Tundra Communities. Ecology, 1993, 74, 2085-2097.	3.2	302
57	PHOTOSYNTHETIC SENSITIVITY TO TEMPERATURE IN POPULATIONS OF TWO C 4 BOUTELOUA (POACEAE) SPECIES NATIVE TO DIFFERENT ALTITUDES. American Journal of Botany, 1993, 80, 369-374.	1.7	17
58	Photosynthetic Sensitivity to Temperature in Populations of Two C 4 Bouteloua (Poaceae) Species Native to Different Altitudes. American Journal of Botany, 1993, 80, 369.	1.7	4
59	Inputs and Storage of Nitrogen in Winter Snowpack in an Alpine Ecosystem. Arctic and Alpine Research, 1992, 24, 211.	1.3	124