

William D Bowman

List of Publications by Year in descending order

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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	GENERALITY OF LEAF TRAIT RELATIONSHIPS: A TEST ACROSS SIX BIOMES. <i>Ecology</i> , 1999, 80, 1955-1969.	3.2	1,091
2	A temporal approach to linking aboveground and belowground ecology. <i>Trends in Ecology and Evolution</i> , 2005, 20, 634-641.	8.7	706
3	Negative impact of nitrogen deposition on soil buffering capacity. <i>Nature Geoscience</i> , 2008, 1, 767-770.	12.9	530
4	Relationships of leaf dark respiration to leaf nitrogen, specific leaf area and leaf life-span: a test across biomes and functional groups. <i>Oecologia</i> , 1998, 114, 471-482.	2.0	441
5	Constraints of Nutrient Availability on Primary Production in Two Alpine Tundra Communities. <i>Ecology</i> , 1993, 74, 2085-2097.	3.2	302
6	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
7	Links between plant litter chemistry, species diversity, and below-ground ecosystem function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19780-19785.	7.1	273
8	The effects of chronic nitrogen fertilization on alpine tundra soil microbial communities: implications for carbon and nitrogen cycling. <i>Environmental Microbiology</i> , 2008, 10, 3093-3105.	3.8	252
9	Nitrogen Critical Loads For Alpine Vegetation And Terrestrial Ecosystem Response: Are We There Yet?. , 2006, 16, 1183-1193.		186
10	NUTRIENT AVAILABILITY, PLANT ABUNDANCE, AND SPECIES DIVERSITY IN TWO ALPINE TUNDRA COMMUNITIES. <i>Ecology</i> , 1997, 78, 1861-1872.	3.2	155
11	Variation in nitrogen-15 natural abundance and nitrogen uptake traits among co-occurring alpine species: do species partition by nitrogen form?. <i>Oecologia</i> , 2002, 130, 609-616.	2.0	149
12	Global change effects on plant communities are magnified by time and the number of global change factors imposed. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17867-17873.	7.1	141
13	Asynchrony among local communities stabilises ecosystem function of metacommunities. <i>Ecology Letters</i> , 2017, 20, 1534-1545.	6.4	136
14	Inputs and Storage of Nitrogen in Winter Snowpack in an Alpine Ecosystem. <i>Arctic and Alpine Research</i> , 1992, 24, 211.	1.3	124
15	Physiological and production responses of plant growth forms to increases in limiting resources in alpine tundra: implications for differential community response to environmental change. <i>Oecologia</i> , 1995, 101, 217-227.	2.0	110
16	Interactive effects of anthropogenic nitrogen enrichment and climate change on terrestrial and aquatic biodiversity. <i>Biogeochemistry</i> , 2013, 114, 93-120.	3.5	93
17	Original Articles: Differential Influence of Plant Species on Soil Nitrogen Transformations Within Moist Meadow Alpine Tundra. <i>Ecosystems</i> , 1998, 1, 464-474.	3.4	88
18	Early Spring Nitrogen Uptake by Snow-Covered Plants: A Comparison of Arctic and Alpine Plant Function under the Snowpack. <i>Arctic, Antarctic, and Alpine Research</i> , 2000, 32, 404-411.	1.1	85

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19	Nitrogen critical loads for alpine vegetation and soils in Rocky Mountain National Park. <i>Journal of Environmental Management</i> , 2012, 103, 165-171.	7.8	85
20	Changes in alpine vegetation over 21 years: Are patterns across a heterogeneous landscape consistent with predictions?. <i>Ecosphere</i> , 2013, 4, 1-18.	2.2	78
21	Litter effects of two co-occurring alpine species on plant growth, microbial activity and immobilization of nitrogen. <i>Oikos</i> , 2004, 104, 336-344.	2.7	69
22	Early Spring Nitrogen Uptake by Snow-Covered Plants: A Comparison of Arctic and Alpine Plant Function under the Snowpack. <i>Arctic, Antarctic, and Alpine Research</i> , 2000, 32, 404.	1.1	66
23	PLANT AND MICROBE CONTRIBUTION TO COMMUNITY RESILIENCE IN A DIRECTIONALLY CHANGING ENVIRONMENT. <i>Ecological Monographs</i> , 2008, 78, 313-329.	5.4	62
24	Nitrogen deposition decreases acid buffering capacity of alpine soils in the southern Rocky Mountains. <i>Geoderma</i> , 2011, 164, 220-224.	5.1	62
25	Alpine Landscape Variation in Foliar Nitrogen and Phosphorus Concentrations and the Relation to Soil Nitrogen and Phosphorus Availability. <i>Arctic, Antarctic, and Alpine Research</i> , 2003, 35, 144-149.	1.1	52
26	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
27	Symbiotic N ₂ -fixation in alpine tundra: ecosystem input and variation in fixation rates among communities. <i>Oecologia</i> , 1996, 108, 345-350.	2.0	50
28	Uptake and Allocation of ¹⁵ N in Alpine Plants: Implications for the Importance of Competitive Ability in Predicting Community Structure in a Stressful Environment. <i>Oikos</i> , 1996, 75, 59.	2.7	50
29	Influence of N ₂ -fixing <i>Trifolium</i> on plant species composition and biomass production in alpine tundra. <i>Oecologia</i> , 1998, 115, 26-31.	2.0	43
30	Species effects on resource supply rates: do they influence competitive interactions?. <i>Plant Ecology</i> , 2004, 175, 47-58.	1.6	42
31	The consequence of species loss on ecosystem nitrogen cycling depends on community compensation. <i>Oecologia</i> , 2006, 149, 141-149.	2.0	41
32	Limited ecosystem recovery from simulated chronic nitrogen deposition. <i>Ecological Applications</i> , 2018, 28, 1762-1772.	3.8	40
33	The Influence of Interspecific Competition on the Distribution of an Alpine Graminoid: Evidence for the Importance of Plant Competition in an Extreme Environment. <i>Oikos</i> , 1997, 79, 101.	2.7	39
34	Influence of a pulsed nitrogen supply on growth and nitrogen uptake in alpine graminoids. <i>Plant and Soil</i> , 2001, 233, 283-290.	3.7	33
35	Hot Spots of Inorganic Nitrogen Availability in an Alpine-Subalpine Ecosystem, Colorado Front Range. <i>Ecosystems</i> , 2011, 14, 848-863.	3.4	33
36	Fine root inputs to soil reduce growth of a neighbouring plant via distinct mechanisms dependent on root carbon chemistry. <i>Journal of Ecology</i> , 2009, 97, 941-949.	4.0	32

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37	Carbon flux from plants to soil: roots are a below-ground source of phenolic secondary compounds in an alpine ecosystem. <i>Journal of Ecology</i> , 2008, 96, 421-430.	4.0	31
38	A slide down a slippery slope – alpine ecosystem responses to nitrogen deposition. <i>Plant Ecology and Diversity</i> , 2015, 8, 727-738.	2.4	27
39	Soil bacterial community structure remains stable over a 5-year chronosequence of insect-induced tree mortality. <i>Frontiers in Microbiology</i> , 2014, 5, 681.	3.5	26
40	Ambient changes exceed treatment effects on plant species abundance in global change experiments. <i>Global Change Biology</i> , 2018, 24, 5668-5679.	9.5	25
41	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. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 371-387.	2.4	23
42	Landscape-level nitrogen import and export in an ecosystem with complex terrain, Colorado Front Range. <i>Biogeochemistry</i> , 2012, 109, 271-285.	3.5	21
43	SPECIES RESPONSES TO NITROGEN FERTILIZATION IN HERBACEOUS PLANT COMMUNITIES, AND ASSOCIATED SPECIES TRAITSEcological ArchivesE089-070. <i>Ecology</i> , 2008, 89, 1175-1175.	3.2	20
44	Litter N retention over winter for a low and a high phenolic species in the alpine tundra. <i>Plant and Soil</i> , 2005, 275, 361-370.	3.7	19
45	Biotic Controls over Ecosystem Response to Environmental Change in Alpine Tundra of the Rocky Mountains. <i>Ambio</i> , 2000, 29, 396-400.	5.5	18
46	An overview of research from a high elevation landscape: the Niwot Ridge, Colorado Long Term Ecological Research programme. <i>Plant Ecology and Diversity</i> , 2015, 8, 597-605.	2.4	18
47	PHOTOSYNTHETIC SENSITIVITY TO TEMPERATURE IN POPULATIONS OF TWO C 4 BOUTELOUA (POACEAE) SPECIES NATIVE TO DIFFERENT ALTITUDES. <i>American Journal of Botany</i> , 1993, 80, 369-374.	1.7	17
48	Plant-microbe interactions at multiple scales across a high-elevation landscape. <i>Plant Ecology and Diversity</i> , 2015, 8, 703-712.	2.4	15
49	Altitudinal Variation in Leaf Gas Exchange, Nitrogen and Phosphorus Concentrations, and Leaf Mass per Area in Populations of <i>Frasera speciosa</i> . <i>Arctic, Antarctic, and Alpine Research</i> , 1999, 31, 191-195.	1.1	10
50	The roles of stochasticity and biotic interactions in the spatial patterning of plant species in alpine communities. <i>Journal of Vegetation Science</i> , 2018, 29, 25-33.	2.2	10
51	Temporal variability in production is not consistently affected by global change drivers across herbaceous-dominated ecosystems. <i>Oecologia</i> , 2020, 194, 735-744.	2.0	8
52	Altitudinal Variation in Leaf Gas Exchange, Nitrogen and Phosphorus Concentrations, and Leaf Mass per Area in Populations of <i>Frasera speciosa</i> . <i>Arctic, Antarctic, and Alpine Research</i> , 1999, 31, 191.	1.1	7
53	Do tradeoffs govern plant species' responses to different global change treatments?. <i>Ecology</i> , 2022, 103, e3626.	3.2	5
54	Lack of reproductive plasticity in alpine <i>Saxifraga rhomboidea</i> (Saxifragaceae). <i>Nordic Journal of Botany</i> , 2002, 22, 361-368.	0.5	4

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55	Testing invasion filters for the alpine: the roles of temperature, nitrogen deposition and soil. <i>Biological Invasions</i> , 2020, 22, 1889-1901.	2.4	4
56	Photosynthetic Sensitivity to Temperature in Populations of Two C 4 <i>Bouteloua</i> (Poaceae) Species Native to Different Altitudes. <i>American Journal of Botany</i> , 1993, 80, 369.	1.7	4
57	Do plant-microbe interactions and aluminum tolerance influence alpine sedge species responses to nitrogen deposition?. <i>Ecosphere</i> , 2019, 10, e02775.	2.2	1
58	How Much is too Much? Nitrogen Critical Loads and Eutrophication and Acidification in Oligotrophic Ecosystems. , 2014, , 305-310.		1
59	Limited Ecosystem Recovery from Simulated Chronic Nitrogen Deposition. <i>Bulletin of the Ecological Society of America</i> , 2019, 100, e01447.	0.2	0