F Stuart Chapin Iii

List of Publications by Year
in descending order

407	110,782	419 132	186 318
papers	citations	h-index	g-index

417	417	417	69358
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Global Consequences of Land Use. Science, 2005, 309, 570-574.	12.6	9,451
2	A safe operating space for humanity. Nature, 2009, 461, 472-475.	27.8	8,638
3	Global Biodiversity Scenarios for the Year 2100 . Science, 2000, 287, 1770-1774.	12.6	7,077
4	EFFECTS OF BIODIVERSITY ON ECOSYSTEM FUNCTIONING: A CONSENSUS OF CURRENT KNOWLEDGE. Ecological Monographs, 2005, 75, 3-35.	5.4	5,856
5	Resource Availability and Plant Antiherbivore Defense. Science, 1985, 230, 895-899.	12.6	3,410
6	The Mineral Nutrition of Wild Plants. Annual Review of Ecology, Evolution, and Systematics, 1980, 11, 233-260.	6.7	3,388
7	Consequences of changing biodiversity. Nature, 2000, 405, 234-242.	27.8	3,209
8	Carbon/Nutrient Balance of Boreal Plants in Relation to Vertebrate Herbivory. Oikos, 1983, 40, 357.	2.7	2,062
9	TRY â€“ a global database of plant traits. Global Change Biology, 2011, 17, 2905-2935.	9.5	2,002
10	Observational Evidence of Recent Change in the Northern High-Latitude Environment. Climatic Change, 2000, 46, 159-207.	3.6	1,690
11	The Mineral Nutrition of Wild Plants Revisited: A Re-evaluation of Processes and Patterns. Advances in Ecological Research, 1999, , 1-67.	2.7	1,675
12	Evidence and Implications of Recent Climate Change in Northern Alaska and Other Arctic Regions. Climatic Change, 2005, 72, 251-298.	3.6	1,219
13	Role of Land-Surface Changes in Arctic Summer Warming. Science, 2005, 310, 657-660.	12.6	1,186
14	Responses of Arctic Tundra to Experimental and Observed Changes in Climate. Ecology, 1995, 76, 694-711.	3.2	1,168
15	Plant Responses to Multiple Environmental Factors. BioScience, 1987, 37, 49-57.	4.9	1,109
16	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	9.5	1,038
17	Biodiversity Loss Threatens Human Well-Being. PLoS Biology, 2006, 4, e277.	5.6	984
18	Scaling environmental change through the communityâ€level: a traitâ€based responseâ€andâ€effect framework for plants. Global Change Biology, 2008, 14, 1125-1140.	9.5	981

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19	Biotic Control over the Functioning of Ecosystems. Science, 1997, 277, 500-504.	12.6	948
20	Reconciling Carbon-cycle Concepts, Terminology, and Methods. Ecosystems, 2006, 9, 1041-1050.	3.4	904
21	Ecosystem carbon storage in arctic tundra reduced by long-term nutrient fertilization. Nature, 2004, 431, 440-443.	27.8	898
22	Methane bubbling from Siberian thaw lakes as a positive feedback to climate warming. Nature, 2006, 443, 71-75.	27.8	890
23	Mechanisms of Primary Succession Following Deglaciation at Glacier Bay, Alaska. Ecological Monographs, 1994, 64, 149-175.	5.4	878
24	CLIMATE CHANGE: Permafrost and the Global Carbon Budget. Science, 2006, 312, 1612-1613.	12.6	861
25	Principles of Terrestrial Ecosystem Ecology. , 2011, , .		860
26	The Impact of Boreal Forest Fire on Climate Warming. Science, 2006, 314, 1130-1132.	12.6	765
27	Ecosystem stewardship: sustainability strategies for a rapidly changing planet. Trends in Ecology and Evolution, 2010, 25, 241-249.	8.7	744
28	Evolution of Suites of Traits in Response to Environmental Stress. American Naturalist, 1993, 142, S78-S92.	2.1	737
29	An index to assess the health and benefits of the global ocean. Nature, 2012, 488, 615-620.	27.8	736
30	The Nature of Nutrient Limitation in Plant Communities. American Naturalist, 1986, 127, 48-58.	2.1	676
31	Integrated Responses of Plants to Stress. BioScience, 1991, 41, 29-36.	4.9	656
32	Preferential use of organic nitrogen for growth by a non-mycorrhizal arctic sedge. Nature, 1993, 361, 150-153.	27.8	653
33	Climate-induced boreal forest change: Predictions versus current observations. Global and Planetary Change, 2007, 56, 274-296.	3.5	619
34	Seasonal Changes in Nitrogen and Phosphorus Fractions and Autumn Retranslocation in Evergreen and Deciduous Taiga Trees. Ecology, 1983, 64, 376-391.	3.2	612
35	Global Warming and Terrestrial Ecosystems: A Conceptual Framework for Analysis. BioScience, 2000, 50, 871.	4.9	599
36	Individualistic Growth Response of Tundra Plant Species to Environmental Manipulations in the Field. Ecology, 1985, 66, 564-576.	3.2	576

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37	Snowâ€“Shrub Interactions in Arctic Tundra: A Hypothesis with Climatic Implications. Journal of Climate, 2001, 14, 336-344.	3.2	512
38	Arctic and boreal ecosystems of western North America as components of the climate system. Global Change Biology, 2000, 6, 211-223.	9.5	488
39	Temperature and vegetation seasonality diminishment over northern lands. Nature Climate Change, 2013, 3, 581-586.	18.8	485
40	Social norms as solutions. Science, 2016, 354, 42-43.	12.6	476
41	Production: Biomass Relationships and Element Cycling in Contrasting Arctic Vegetation Types. Ecological Monographs, 1991, 61, 1-31.	5.4	463
42	Plant functional types as predictors of transient responses of arctic vegetation to global change. Journal of Vegetation Science, 1996, 7, 347-358.	2.2	461
43	Response to Fertilization by Various Plant Growth Forms in an Alaskan Tundra: Nutrient Accumulation and Growth. Ecology, 1980, 61, 662-675.	3.2	457
44	Plant functional trait change across a warming tundra biome. Nature, 2018, 562, 57-62.	27.8	451
45	Changes in fire regime break the legacy lock on successional trajectories in Alaskan boreal forest. Global Change Biology, 2010, 16, 1281-1295.	9.5	448
46	The fate of carbon in grasslands under carbon dioxide enrichment. Nature, 1997, 388, 576-579.	27.8	444
47	The impacts of climate change on ecosystem structure and function. Frontiers in Ecology and the Environment, 2013, 11, 474-482.	4.0	433
48	Reconnecting to the Biosphere. Ambio, 2011, 40, 719-38.	5.5	420
49	Climate change, human impacts, and carbon sequestration in China. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4015-4020.	7.1	419
50	Global Change and the Carbon Balance of Arctic Ecosystems. BioScience, 1992, 42, 433-441.	4.9	416
51	Functional diversity revealed by removal experiments. Trends in Ecology and Evolution, 2003, 18, 140-146.	8.7	395
52	Nutrient availability as the key regulator of global forest carbon balance. Nature Climate Change, 2014, 4, 471-476.	18.8	383
53	Global negative vegetation feedback to climate warming responses of leaf litter decomposition rates in cold biomes. Ecology Letters, 2007, 10, 619-627.	6.4	379
54	Functional Matrix: A Conceptual Framework for Predicting Multiple Plant Effects on Ecosystem Processes. Annual Review of Ecology, Evolution, and Systematics, 2003, 34, 455-485.	8.3	378

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55	Managing the whole landscape: historical, hybrid, and novel ecosystems. Frontiers in Ecology and the Environment, 2014, 12, 557-564.	4.0	378
56	Plant diversity enhances productivity and soil carbon storage. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4027-4032.	7.1	368
57	This Must Be the Place: Underrepresentation of Identity and Meaning in Climate Change Decision-Making. Global Environmental Politics, 2011, 11, 1-25.	3.0	361
58	Steppe-Tundra Transition: A Herbivore-Driven Biome Shift at the End of the Pleistocene. American Naturalist, 1995, 146, 765-794.	2.1	354
59	Nitrogen limitation of microbial decomposition in a grassland under elevated CO2. Nature, 2001, 409, 188-191.	27.8	348
60	Land-atmosphere energy exchange in Arctic tundra and boreal forest: available data and feedbacks to climate. Global Change Biology, 2000, 6, 84-115.	9.5	346
61	A comprehensive review of climate adaptation in the United States: more than before, but less than needed. Mitigation and Adaptation Strategies for Global Change, 2013, 18, 361-406.	2.1	334
62	The relationships among root and leaf traits of 76 grassland species and relative abundance along fertility and disturbance gradients. Oikos, 2001, 93, 274-285.	2.7	330
63	Epistemological Pluralism: Reorganizing Interdisciplinary Research. Ecology and Society, 2008, 13, .	2.3	324
64	Physiological and Growth Responses of Arctic Plants to a Field Experiment Simulating Climatic Change. Ecology, 1996, 77, 822-840.	3.2	320
65	Ecosystem Consequences of Changing Biodiversity. BioScience, 1998, 48, 45-52.	4.9	319
66	Effects of Soil Burn Severity on Post-Fire Tree Recruitment in Boreal Forest. Ecosystems, 2006, 9, 14-31.	3.4	313
67	Paying for Ecosystem Servicesâ€"Promise and Peril. Science, 2011, 334, 603-604.	12.6	310
68	Fire, climate change, and forest resilience in interior AlaskaThis article is one of a selection of papers from The Dynamics of Change in Alaska's Boreal Forests: Resilience and Vulnerability in Response to Climate Warming.. Canadian Journal of Forest Research, 2010, 40, 1302-1312.	1.7	306
69	Long-term ecosystem level experiments at Toolik Lake, Alaska, and at Abisko, Northern Sweden: generalizations and differences in ecosystem and plant type responses to global change. Global Change Biology, 2004, 10, 105-123.	9.5	299
70	Methane bubbling from northern lakes: present and future contributions to the global methane budget. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 1657-1676.	3.4	294
71	North Siberian Lakes: A Methane Source Fueled by Pleistocene Carbon. Science, 1997, 277, 800-802.	12.6	293
72	Thermokarst Lakes as a Source of Atmospheric CH ₄ During the Last Deglaciation. Science, 2007, 318, 633-636.	12.6	287

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73	Thresholds for boreal biome transitions. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 21384-21389.	7.1	286
74	Tundra Plant Uptake of Amino Acid and NH4+Nitrogen in Situ: Plants Complete Well for Amino Acid N. Ecology, 1996, 77, 2142-2147.	3.2	285
75	Effects of Plant Traits on Ecosystem and Regional Processes: a Conceptual Framework for Predicting the Consequences of Global Change. Annals of Botany, 2003, 91, 455-463.	2.9	278
76	Our future in the Anthropocene biosphere. Ambio, 2021, 50, 834-869.	5.5	275
77	THE RESPONSE OF TUNDRA PLANT BIOMASS, ABOVEGROUND PRODUCTION, NITROGEN, AND CO2FLUX TO EXPERIMENTAL WARMING. Ecology, 1998, 79, 1526-1544.	3.2	274
78	Fertile forests produce biomass more efficiently. Ecology Letters, 2012, 15, 520-526.	6.4	273
79	SPECIES COMPOSITION INTERACTS WITH FERTILIZER TO CONTROL LONG-TERM CHANGE IN TUNDRA PRODUCTIVITY. Ecology, 2001, 82, 3163-3181.	3.2	271
80	The changing global carbon cycle: linking plantâ€“soil carbon dynamics to global consequences. Journal of Ecology, 2009, 97, 840-850.	4.0	262
81	Expert assessment of vulnerability of permafrost carbon to climate change. Climatic Change, 2013, 119, 359-374.	3.6	257
82	Interactions among Processes Controlling Successional Change. Oikos, 1987, 50, 131.	2.7	256
83	Global change and arctic ecosystems: is lichen decline a function of increases in vascular plant biomass?. Journal of Ecology, 2001, 89, 984-994.	4.0	256
84	Boreal forest and tundra ecosystems as components of the climate system. Climatic Change, 1995, 29, 145-167.	3.6	250
85	Changing feedbacks in the climateâ€“biosphere system. Frontiers in Ecology and the Environment, 2008, 6, 313-320.	4.0	247
86	The Role of Life History Processes in Primary Succession on an Alaskan Floodplain. Ecology, 1986, 67, 1243-1253.	3.2	245
87	Element Cycling in Taiga Forests: State-Factor Control. BioScience, 1991, 41, 78-88.	4.9	242
88	Breaks in the cycle: dissolved organic nitrogen in terrestrial ecosystems. Frontiers in Ecology and the Environment, 2003, 1, 205-211.	4.0	239
89	Approaches to defining a planetary boundary for biodiversity. Global Environmental Change, 2014, 28, 289-297.	7.8	236
90	Predominance of ecophysiological controls on soil CO2 flux in a Minnesota grassland. Plant and Soil, 1998, 207, 77-86.	3.7	226

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91	Direct and indirect effects of temperature on arctic plants. Polar Biology, 1983, 2, 47-52.	1.2	220
92	Winter regulation of tundra litter carbon and nitrogen dynamics. Biogeochemistry, 1996, 35, 327-338.	3.5	217
93	Fire Interval Effects on Successional Trajectory in Boreal Forests of Northwest Canada. Ecosystems, 2006, 9, 268-277.	3.4	208
94	Decadal observations of tree regeneration following fire in boreal forests. Canadian Journal of Forest Research, 2004, 34, 267-273.	1.7	203
95	Nutritional Controls Over Nitrogen and Phosphorus Resorption From Alaskan Birch Leaves. Ecology, 1991, 72, 709-715.	3.2	202
96	Substrate limitations to microbial activity in taiga forest floors. Soil Biology and Biochemistry, 2001, 33, 173-188.	8.8	200
97	Integrated Regional Changes in Arctic Climate Feedbacks: Implications for the Global Climate System. Annual Review of Environment and Resources, 2006, 31, 61-91.	13.4	199
98	Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. Environmental Research Letters, 2016, 11, 034014.	5.2	199
99	Resilience, experimentation, and scale mismatches in social-ecological landscapes. Landscape Ecology, 2013, 28, 1139-1150.	4.2	197
100	The Representation of Arctic Soils in the Land Surface Model: The Importance of Mosses. Journal of Climate, 2001, 14, 3324-3335.	3.2	196
101	Fire effects on ecosystem nitrogen cycling in a Californian bishop pine forest. Oecologia, 2000, 122, 537-544.	2.0	194
102	Sinks for nitrogen inputs in terrestrial ecosystems: a metaâ€analysis of ¹⁵N tracer field studies. Ecology, 2012, 93, 1816-1829.	3.2	192
103	Long-term responses to factorial, NPK fertilizer treatment by Alaskan wet and moist tundra sedge species. Ecography, 1995, 18, 259-275.	4.5	190
104	Physiological Controls Over Seedling Growth in Primary Succession on an Alaskan Floodplain. Ecology, 1986, 67, 1508-1523.	3.2	189
105	TIME LAGS AND NOVEL ECOSYSTEMS IN RESPONSE TO TRANSIENT CLIMATIC CHANGE IN ARCTIC ALASKA. , 1997, 35, 449-461.		188
106	Effects of Multiple Environmental Stresses on Nutrient Availability and Use. , 1991, , 67-88.		185
107	Changes in vegetation in northern Alaska under scenarios of climate change, 2003â€“2100: implications for climate feedbacks. Ecological Applications, 2009, 19, 1022-1043.	3.8	185
108	Principles of Ecosystem Sustainability. American Naturalist, 1996, 148, 1016-1037.	2.1	184

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109	The effect of post-fire stand age on the boreal forest energy balance. Agricultural and Forest Meteorology, 2006, 140, 41-50.	4.8	184
110	The Cost of Tundra Plant Structures: Evaluation of Concepts and Currencies. American Naturalist, 1989, 133, 1-19.	2.1	181
111	Surface energy exchanges along a tundra-forest transition and feedbacks to climate. Agricultural and Forest Meteorology, 2005, 131, 143-161.	4.8	180
112	Adaptive governance and institutional strategies for climate-induced community relocations in Alaska. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9320-9325.	7.1	179
113	Productivity and Nutrient Cycling of Alaskan Tundra: Enhancement by Flowing Soil Water. Ecology, 1988, 69, 693-702.	3.2	176
114	Changes in the surface energy budget after fire in boreal ecosystems of interior Alaska: An annual perspective. Journal of Geophysical Research, 2005, 110, .	3.3	174
115	Response of winter chemical defense in Alaska paper birch and green alder to manipulation of plant carbon/nutrient balance. Oecologia, 1987, 72, 510-514.	2.0	172
116	Methane production and bubble emissions from arctic lakes: Isotopic implications for source pathways and ages. Journal of Geophysical Research, 2008, 113, .	3.3	170
117	Increasing Wildfire in Alaska's Boreal Forest: Pathways to Potential Solutions of a Wicked Problem. BioScience, 2008, 58, 531-540.	4.9	170
118	Planetary Opportunities: A Social Contract for Global Change Science to Contribute to a Sustainable Future. BioScience, 2012, 62, 603-606.	4.9	169
119	Global Change and the Boreal Forest: Thresholds, Shifting States or Gradual Change?. Ambio, 2004, 33, 361-365.	5.5	168
120	Stimulation of grassland nitrogen cycling under carbon dioxide enrichment. Oecologia, 1997, 109, 149-153.	2.0	166
121	Postfire Soil N Cycling in Northern Conifer Forests Affected by Severe, Stand-Replacing Wildfires. Ecosystems, 2005, 8, 163-181.	3.4	165
122	Growth response of barley and tomato to nitrogen stress and its control by abscisic acid, water relations and photosynthesis. Planta, 1988, 173, 352-366.	3.2	164
123	Contrasting effects of elevated CO2 on old and new soil carbon pools. Soil Biology and Biochemistry, 2001, 33, 365-373.	8.8	163
124	Controls over Nutrient Resorption from Leaves of Evergreen Mediterranean Species. Ecology, 1993, 74, 124-129.	3.2	156
125	Long-Term and Large-Scale Perspectives on the Relationship between Biodiversity and Ecosystem Functioning. BioScience, 2003, 53, 89.	4.9	156
126	Earth Stewardship: science for action to sustain the human-earth system. Ecosphere, 2011, 2, art89.	2.2	154

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127	CO2exchange between air and water in an Arctic Alaskan and midlatitude Swiss lake: Importance of convective mixing. Journal of Geophysical Research, 2003, 108, .	3.3	153
128	Primary and secondary stem growth in arctic shrubs: implications for community response to environmental change. Journal of Ecology, 2002, 90, 251-267.	4.0	148
129	CLIMATIC EFFECTS ON TUNDRA CARBON STORAGE INFERRED FROM EXPERIMENTAL DATA AND A MODEL. Ecology, 1997, 78, 1170-1187.	3.2	147
130	Policy strategies to address sustainability of Alaskan boreal forests in response to a directionally changing climate. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16637-16643.	7.1	145
131	Temperature control over root growth and root biomass in taiga forest trees. Canadian Journal of Forest Research, 1983, 13, 827-833.	1.7	143
132	Climate Change and the Integrity of Science. Science, 2010, 328, 689-690.	12.6	143
133	Carbon/nutrient balance as a predictor of plant defense in Alaskan balsam poplar: Potential importance of metabolite turnover. Oecologia, 1991, 88, 401-406.	2.0	142
134	Energy feedbacks of northern high-latitude ecosystems to the climate system due to reduced snow cover during 20th century warming. Global Change Biology, 2007, 13, 2425-2438.	9.5	138
135	Effects of Phosphorus Nutrition and Defoliation on C4Graminoids from the Serengeti Plains. Ecology, 1985, 66, 1617-1629.	3.2	137
136	Significance of sequential leaf development for nutrient balance of the cotton sedge,Eriophorum vaginatum L.. Oecologia, 1985, 67, 511-518.	2.0	137
137	Energy and trace-gas fluxes across a soil pH boundary in the Arctic. Nature, 1998, 394, 469-472.	27.8	135
138	Detecting changes in soil carbon in CO2 enrichment experiments. Plant and Soil, 1995, 187, 135-145.	3.7	134
139	Accelerate Synthesis in Ecology and Environmental Sciences. BioScience, 2009, 59, 699-701.	4.9	132
140	Sense of place: A process for identifying and negotiating potentially contested visions of sustainability. Environmental Science and Policy, 2015, 53, 38-46.	4.9	130
141	Plant Phenols and Nutrients in Relation to Variations in Climate and Rodent Grazing. American Naturalist, 1986, 128, 394-408.	2.1	125
142	Resilience of Alaskaâ€™s boreal forest to climatic changeThis article is one of a selection of papers from The Dynamics of Change in Alaskaâ€™s Boreal Forests: Resilience and Vulnerability in Response to Climate Warming.. Canadian Journal of Forest Research, 2010, 40, 1360-1370.	1.7	125
143	Arctic system on trajectory to new, seasonally ice-free state. Eos, 2005, 86, 309.	0.1	124
144	Morphological and Physiological Mechanisms of Temperature Compensation in Phosphate Absorption along a Latitudinal Gradient. Ecology, 1974, 55, 1180-1198.	3.2	123

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145	An experimental test of limits to tree establishment in Arctic tundra. Journal of Ecology, 1998, 86, 449-461.	4.0	123
146	Optical properties of boreal region biomass burning aerosols in central Alaska and seasonal variation of aerosol optical depth at an Arctic coastal site. Journal of Geophysical Research, 2009, 114, .	3.3	123
147	Title is missing!. Biogeochemistry, 1997, 37, 89-109.	3.5	121
148	Effect of defoliation upon root growth, phosphate absorption and respiration in nutrient-limited tundra graminoids. Oecologia, 1979, 42, 67-79.	2.0	120
149	Nutrient Allocation and Responses to Defoliation in Tundra Plants. Arctic and Alpine Research, 1980, 12, 553.	1.3	120
150	Mild phosphorus stress in barley and a related low-phosphorus-adapted barleygrass: Phosphorus fractions and phosphate absorption in relation to growth. Physiologia Plantarum, 1982, 54, 309-317.	5.2	120
151	Plant Responses to Species Removal and Experimental Warming in Alaskan Tussock Tundra. Oikos, 1999, 84, 417.	2.7	120
152	Title is missing!. Plant Ecology, 2003, 165, 85-100.	1.6	120
153	Recovery of Aboveground Plant Biomass and Productivity After Fire in Mesic and Dry Black Spruce Forests of Interior Alaska. Ecosystems, 2008, 11, 209-225.	3.4	120
154	Response of tundra CH4 and CO2 flux tomanipulation of temperature and vegetation. Biogeochemistry, 1998, 41, 215-235.	3.5	119
155	Plant and soil responses to neighbour removal and fertilization in Alaskan tussock tundra. Journal of Ecology, 2004, 92, 635-647.	4.0	117
156	A TRANSIENT, NUTRIENT-BASED MODEL OF ARCTIC PLANT COMMUNITY RESPONSE TO CLIMATIC WARMING. , 2000, 10, 824-841.		116
157	The controls on net ecosystem productivity along an Arctic transect: a model comparison with flux measurements. Global Change Biology, 2000, 6, 116-126.	9.5	114
158	Non-equilibrium succession dynamics indicate continued northern migration of lodgepole pine. Global Change Biology, 2003, 9, 1401-1409.	9.5	114
159	Arctic Soil Respiration: Effects of Climate and Vegetation Depend on Season. Ecosystems, 1999, 2, 451-459.	3.4	112
160	Summer Differences among Arctic Ecosystems in Regional Climate Forcing. Journal of Climate, 2000, 13, 2002-2010.	3.2	111
161	Model of Transient Changes in Arctic and Boreal Vegetation in Response to Climate and Land Use Change. , 1996, 6, 842-864.		110
162	Guiding concepts for park and wilderness stewardship in an era of global environmental change. Frontiers in Ecology and the Environment, 2010, 8, 483-490.	4.0	110

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163	Ecotypic Differentiation of Growth Processes in Carex Aquatilis along Latitudinal and Local Gradients. Ecology, 1981, 62, 1000-1009.	3.2	109
164	Defensive Responses of Trees in Relation to Their Carbon/Nutrient Balance. , 1988, , 57-72.		109
165	Winter chemical defense of Alaskan balsam poplar against snowshoe hares. Journal of Chemical Ecology, 1990, 16, 1941-1959.	1.8	109
166	Relationship of ion absorption to growth rate in taiga trees. Oecologia, 1986, 69, 238-242.	2.0	108
167	Indigenous frameworks for observing and responding to climate change in Alaska. Climatic Change, 2013, 120, 557-567.	3.6	108
168	Changes in Soil Properties and Vegetation Following Disturbance of Alaskan Arctic Tundra. Journal of Applied Ecology, 1981, 18, 605.	4.0	107
169	New cog in the nitrogen cycle. Nature, 1995, 377, 199-200.	27.8	107
170	Subgrid-scale variability in the surface energy balance of arctic tundra. Journal of Geophysical Research, 1998, 103, 28947-28961.	3.3	107
171	Cross-system comparisons elucidate disturbance complexities and generalities. Ecosphere, 2011, 2, art81.	2.2	107
172	Interactions and Linkages among Ecosystems during Landscape Evolution. BioScience, 2007, 57, 237-247.	4.9	106
173	Detecting changes in arctic tundra plant communities in response to warming over decadal time scales. Global Change Biology, 2004, 10, 1325-1334.	9.5	105
174	The nature of spatial transitions in the Arctic. Journal of Biogeography, 2004, 31, 1917-1933.	3.0	103
175	A Framework for Understanding Change. , 2009, , 3-28.		102
176	Functional Role of Growth Forms in Ecosystem and Global Processes. , 1993, , 287-312.		101
177	The role of mosses in the phosphorus cycling of an Alaskan black spruce forest. Oecologia, 1987, 74, 310-315.	2.0	100
178	Soil microbial feedbacks to atmospheric CO2 enrichment. Trends in Ecology and Evolution, 1999, 14, 433-437.	8.7	100
179	Response of subarctic vegetation to transient climatic change on the Seward Peninsula in north-west Alaska. Global Change Biology, 2000, 6, 541-555.	9.5	100
180	Lack of compensatory growth under phosphorus deficiency in grazing-adapted grasses from the Serengeti Plains. Oecologia, 1989, 79, 551-557.	2.0	99

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181	Photosynthesis, Respiration, and Phosphate Absorption by Carex Aquatilis Ecotypes along Latitudinal and Local Environmental Gradients. Ecology, 1983, 64, 743-751.	3.2	96
182	Competitive Ability and Adaptation to Fertile and Infertile Soils in Two Eriophorum Species. Ecology, 1989, 70, 736-749.	3.2	95
183	Arctic and alpine biodiversity: patterns, causes and ecosystem consequences. Trends in Ecology and Evolution, 1994, 9, 45-47.	8.7	95
184	Calcium-rich tundra, wildlife, and the â€œMammoth Steppeâ€• Quaternary Science Reviews, 2001, 20, 149-163.	3.0	95
185	Fire Severity Filters Regeneration Traits to Shape Community Assembly in Alaskaâ€™s Boreal Forest. PLoS ONE, 2013, 8, e56033.	2.5	95
186	Contribution of Disturbance to Increasing Seasonal Amplitude of Atmospheric CO2. Science, 1999, 284, 1973-1976.	12.6	94
187	Estimating methane emissions from northern lakes using iceâ€bubble surveys. Limnology and Oceanography: Methods, 2010, 8, 592-609.	2.0	94
188	Growth, Phosphate Absorption, and Phosphorus Chemical Fractions in Two Chionochloa Species. Journal of Ecology, 1982, 70, 305.	4.0	93
189	Plant Species Mediate Changes in Soil Microbial N in Response to Elevated CO2. Ecology, 1996, 77, 2505-2515.	3.2	93
190	Plant functional types do not predict biomass responses to removal and fertilization in Alaskan tussock tundra. Journal of Ecology, 2008, 96, 713-726.	4.0	93
191	SEASONAL VARIATIONS IN PLANT SPECIES EFFECTS ON SOIL N AND P DYNAMICS. Ecology, 2006, 87, 974-986.	3.2	91
192	Carbon dioxide and water vapour exchange from understory species in boreal forest. Agricultural and Forest Meteorology, 2004, 123, 135-147.	4.8	89
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