John Pastor

List of Publications by Year in descending order

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115 papers	10,538 citations	66343 42 h-index	51608 86 g-index
131 all docs	131 docs citations	131 times ranked	7602 citing authors

#	Article	IF	Citations
1	Aboveground Production and N and P Cycling Along a Nitrogen Mineralization Gradient on Blackhawk Island, Wisconsin. Ecology, 1984, 65, 256-268.	3.2	683
2	Influence of climate, soil moisture, and succession on forest carbon and nitrogen cycles. Biogeochemistry, 1986, 2, 3-27.	3.5	618
3	Response of northern forests to CO2-induced climate change. Nature, 1988, 334, 55-58.	27.8	583
4	Forest Litter Decomposition in Relation to Soil Nitrogen Dynamics and Litter Quality. Ecology, 1985, 66, 266-275.	3.2	481
5	Global patterns of soil nitrogen storage. Nature, 1985, 317, 613-616.	27.8	416
6	CARBON, NITROGEN, AND PHOSPHORUS MINERALIZATION IN NORTHERN WETLANDS. Ecology, 1998, 79, 1545-1561.	3.2	365
7	Environmental and Substrate Controls over Carbon and Nitrogen Mineralization in Northern Wetlands. , 1995, 5, 151-163.		350
8	Fine root turnover in forest ecosystems in relation to quantity and form of nitrogen availability: a comparison of two methods. Oecologia, 1985, 66, 317-321.	2.0	345
9	Comparing Spatial Pattern in Unaltered Old-Growth and Disturbed Forest Landscapes. , 1993, 3, 294-306.		284
10	Selective Foraging and Ecosystem Processes in Boreal Forests. American Naturalist, 1992, 139, 690-705.	2.1	280
11	Effects of Moose Browsing on Vegetation and Litter of the Boreal Forest, Isle Royale, Michigan, USA. Ecology, 1992, 73, 2059-2075.	3.2	271
12	The Potential Importance of Boundaries of Fluvial Ecosystems. Journal of the North American Benthological Society, 1988, 7, 289-306.	3.1	270
13	RESPONSE OF BOG AND FEN PLANT COMMUNITIES TO WARMING AND WATER-TABLE MANIPULATIONS. Ecology, 2000, 81, 3464-3478.	3.2	262
14	Carbon Isotope Dynamics During Grass Decomposition and Soil Organic Matter Formation. Ecology, 1995, 76, 1383-1392.	3.2	252
15	Moose, Microbes, and the Boreal Forest. BioScience, 1988, 38, 770-777.	4.9	246
16	Potential effects of warming and drying on peatland plant community composition. Global Change Biology, 2003, 9, 141-151.	9.5	239
17	Multiple limiting gradients in peatlands: A call for a new paradigm. Wetlands, 1996, 16, 45-65.	1.5	232
18	Global warming and the export of dissolved organic carbon from boreal peatlands. Oikos, 2003, 100, 380-386.	2.7	215

#	Article	IF	Citations
19	Beaver Influences on the Long-Term Biogeochemical Characteristics of Boreal Forest Drainage Networks. Ecology, 1994, 75, 905-921.	3.2	214
20	Effects of European Earthworm Invasion on Soil Characteristics in Northern Hardwood Forests of Minnesota, USA. Ecosystems, 2005, 8, 911-927.	3.4	206
21	Patch Formation and Maintenance in an Old-Growth Hemlock-Hardwood Forest. Ecology, 1993, 74, 513-527.	3.2	184
22	State-of-the-Art of Models of Production-Decomposition Linkages in Conifer and Grassland Ecosystems. , 1991, 1, 118-138.		177
23	Factors Controlling Nitrogen Cycling and Nitrogen Saturation in Northern Temperate Forest Ecosystems. , 1991, 1, 303-315.		157
24	Potential Feedbacks of Northern Wetlands on Climate Change. BioScience, 1995, 45, 262-274.	4.9	152
25	Biomass prediction using generalized allometric regressions for some northeast tree species. Forest Ecology and Management, 1984, 7, 265-274.	3.2	141
26	Nitrogen mineralization dynamics in grass monocultures. Oecologia, 1993, 96, 186-192.	2.0	126
27	Nutrient-Use Efficiency: A Litterfall Index, a Model, and a Test Along a Nutrient-Availability Gradient in North Carolina Peatlands. American Naturalist, 1995, 145, 1-21.	2.1	125
28	Production and microtopography of bog bryophytes: response to warming and water-table manipulations. Oecologia, 2001, 128, 557-565.	2.0	122
29	RAPID CARBON RESPONSE OF PEATLANDS TO CLIMATE CHANGE. Ecology, 2008, 89, 3041-3048.	3.2	118
30	RESPONSE OF CO2AND CH4EMISSIONS FROM PEATLANDS TO WARMING AND WATER TABLE MANIPULATION. , 2001, 11, 311-326.		107
31	The spatial pattern of a northern conifer-hardwood landscape. Landscape Ecology, 1990, 4, 55-68.	4.2	103
32	Herbivores, the Functional Diversity of Plants Species, and the Cycling of Nutrients in Ecosystems. Theoretical Population Biology, 1997, 51, 165-179.	1.1	97
33	ECOSYSTEM CONTROL OVER TEMPERATURE AND ENERGY FLUX IN NORTHERN PEATLANDS. , 1999, 9, 1345-1358.		97
34	Distribution and Cycling of Nutrients in an Aspen-Mixed-Hardwood-Spodosol Ecosystem in Northern Wisconsin. Ecology, 1984, 65, 339-353.	3.2	96
35	Climate change effects on carbon and nitrogen mineralization in peatlands through changes in soil quality. Global Change Biology, 2004, 10, 1053-1064.	9.5	92
36	A SPATIALLY EXPLICIT MODEL OF MOOSE FORAGINGAND ENERGETICS. Ecology, 1997, 78, 505-521.	3.2	89

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37	A Geomorphicâ€“Trophic Model for Landscape Control of Arctic Lake Food Webs. BioScience, 1999, 49, 887-897.	4.9	87
38	Exotic earthworm effects on hardwood forest floor, nutrient availability and native plants: a mesocosm study. Oecologia, 2008, 155, 509-518.	2.0	80
39	Impacts of large herbivores on plant community structure and dynamics. , 2006, , 97-141.		79
40	The roles of large herbivores in ecosystem nutrient cycles. , 2006, , 289-325.		63
41	Nutrient efficiency along nutrient availability gradients. Oecologia, 1999, 118, 50-58.	2.0	61
42	Generation of Spatial Patterns in Boreal Forest Landscapes. Ecosystems, 1999, 2, 439-450.	3.4	60
43	Nutrient limitations in the northern pitcher plant Sarracenia purpurea. Canadian Journal of Botany, 1995, 73, 728-734.	1.1	56
44	Effects of soil warming and drying on methane cycling in a northern peatland mesocosm study. Journal of Geophysical Research, 2008, 113, .	3.3	56
45	Nitrogen, phosphorus and light effects on growth and allocation of biomass and nutrients in wild rice. Oecologia, 2012, 170, 65-76.	2.0	56
46	A Comparison of Nutrient Availability Indices Along an Ombrotrophicâ€“Minerotrophic Gradient in Minnesota Wetlands. Soil Science Society of America Journal, 2001, 65, 259-269.	2.2	51
47	Plant Community Dynamics, Nutrient Cycling, and Alternative Stable Equilibria in Peatlands. American Naturalist, 2002, 160, 553-568.	2.1	51
48	pH and nutrient effects on above-ground net primary production in a Minnesota, USA bog and fen. Wetlands, 2004, 24, 186-201.	1.5	50
49	Biomass and production of an aspen â€“ mixed hardwood â€“ spodosol ecosystem in northern Wisconsin. Canadian Journal of Forest Research, 1981, 11, 132-138.	1.7	48
50	Quantitative Methods for Studying Landscape Boundaries. Ecological Studies, 1992, , 107-125.	1.2	48
51	Impact of moose population density on the production and composition of litter in boreal forests. Oikos, 2005, 108, 297-306.	2.7	44
52	SPATIAL PATTERNS IN THE MOOSEâ€“FORESTâ€“SOIL ECOSYSTEM ON ISLE ROYALE, MICHIGAN, USA. , 1998, 8, 411-424.		43
53	Hysteresis in the temperature response of carbon dioxide and methane production in peat soils. Biogeochemistry, 1998, 43, 253-272.	3.5	42
54	Geology, Soils and Vegetation of Blackhawk Island, Wisconsin. American Midland Naturalist, 1982, 108, 266.	0.4	41

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55	Linking Moose Population and Plant Growth Models with a Moose Energetics Model. Ecosystems, 1998, 1, 52-63.	3.4	41
56	Effects of large herbivores on other fauna. , 2006, , 383-412.		40
57	The influence of large herbivores on tree recruitment and forest dynamics. , 2006, , 170-202.		39
58	Applying Principles of Landscape Design and Management to Integrate Old-Growth Forest Enhancement and Commodity Use. Conservation Biology, 1994, 8, 752-762.	4.7	38
59	NITROGEN, PHOSPHORUS, AND CARBON MINERALIZATION IN RESPONSE TO NUTRIENT AND LIME ADDITIONS IN PEATLANDS. Soil Science, 2003, 168, 409-420.	0.9	34
60	Impact of simulated moose densities on abundance and richness of vegetation, herbivorous and predatory arthropods along a productivity gradient. Ecography, 2008, 31, 636-645.	4.5	34
61	Carbon and nutrient mineralization and fungal spore composition of fecal pellets from voles in Minnesota. Ecography, 1996, 19, 52-61.	4.5	32
62	Linear regressions do not predict the transient responses of eastern north american forests to CO2-induced climate change. Climatic Change, 1993, 23, 111-119.	3.6	29
63	Effects of sulfate and sulfide on the life cycle of <scp>Z</scp>izania palustris in hydroponic and mesocosm experiments. Ecological Applications, 2017, 27, 321-336.	3.8	26
64	Decay and nitrogen dynamics of litter from disjunct, congeneric tree species in old-growth stands in northeastern China and Wisconsin. Canadian Journal of Botany, 1993, 71, 693-699.	1.1	24
65	The Responses of a Forest Model to Serial Correlations of Global Warming. Ecology, 1991, 72, 1161-1165.	3.2	23
66	Scaling the effects of moose browsing on forage distribution, from the geometry of plant canopies to landscapes. Ecological Monographs, 2009, 79, 281-297.	5.4	23
67	Delays in nutrient cycling and plant population oscillations. Oikos, 2006, 112, 698-705.	2.7	22
68	Nitrogen fixation and the mass balances of carbon and nitrogen in ecosystems. Biogeochemistry, 1998, 43, 63-78.	3.5	21
69	Diverse Communities of hgcAB⁺ Microorganisms Methylate Mercury in Freshwater Sediments Subjected to Experimental Sulfate Loading. Environmental Science & Technology, 2020, 54, 14265-14274.	10.0	21
70	Declines in moose population density at Isle Royle National Park, MI, USA and accompanied changes in landscape patterns. Landscape Ecology, 2009, 24, 1389-1403.	4.2	20
71	Depression of belowground respiration rates at simulated high moose population densities in boreal forests. Ecology, 2009, 90, 2724-2733.	3.2	17
72	Increased soil nitrogen associated with dinitrogen-fixing, terricolous lichens of the genus Peltigera in northern Minnesota. Oikos, 2006, 114, 37-48.	2.7	16

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73	Effects of moose Alces alces population density and site productivity on the canopy geometries of birch Betula pubescens and B. pendula and Scots pine Pinus sylvestris. Wildlife Biology, 2008, 14, 251-262.	1.4	16
74	Iron sulfide formation on root surfaces controlled by the life cycle of wild rice (Zizania palustris). Biogeochemistry, 2018, 141, 95-106.	3.5	15
75	The Effects of Infrared Loading and Water Table on Soil Energy Fluxes in Northern Peatlands. Ecosystems, 2004, 7, 573.	3.4	14
76	Effects of simulated moose Alces alces browsing on the morphology of rowan Sorbus aucuparia. Wildlife Biology, 2010, 16, 301-307.	1.4	13
77	Using Simulation Models and Geographic Information Systems to Integrate Ecosystem and Landscape Ecology. , 1992, , 324-346.		13
78	Response of CO 2 and CH 4 Emissions from Peatlands to Warming and Water Table Manipulation. , 2001, 11, 311.		12
79	Temperature Responses to Infraredâ€Loading and Water Table Manipulations in Peatland Mesocosms. Journal of Integrative Plant Biology, 2008, 50, 1484-1496.	8.5	12
80	Response of Bog and Fen Plant Communities to Warming and Water-Table Manipulations. Ecology, 2000, 81, 3464.	3.2	12
81	Ecosystem Ecology and Evolutionary Biology, a New Frontier for Experiments and Models. Ecosystems, 2017, 20, 245-252.	3.4	11
82	A Spatially Explicit Model of Moose Foraging and Energetics. Ecology, 1997, 78, 505.	3.2	10
83	Litter Quantity and Nitrogen Immobilization Cause Oscillations in Productivity of Wild Rice (Zizania) Tj ETQq1 1 0.784314 rgBT /Over	3.4	10
84	Effects of wild rice (Zizania palustris) straw on biomass and seed production in northern Minnesota. Canadian Journal of Botany, 2006, 84, 1019-1024.	1.1	9
85	Title is missing!. Soil Science, 2003, 168, 409-420.	0.9	8
86	Evolutionary dynamics. Mathematical Intelligencer, 2008, 30, 64-66.	0.2	8
87	Cumulative Sulfate Loads Shift Porewater to Sulfidic Conditions in Freshwater Wetland Sediment. Environmental Toxicology and Chemistry, 2019, 38, 1231-1244.	4.3	7
88	Nitrogen, phosphorus, and light effects on reproduction and fitness of wild rice. Botany, 2012, 90, 876-883.	1.0	6
89	Interactions between sulfide and reproductive phenology of an annual aquatic plant, wild rice (Zizania palustris). Aquatic Botany, 2020, 164, 103230.	1.6	6
90	Thoughts on the Generation and Importance of Spatial Heterogeneity in Ecosystems and Landscapes. , 2005, , 49-66.		5

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91	Randomly organized lipids and marginally stable proteins: A coupling of weak interactions to optimize membrane signaling. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2331-2340.	2.6	5
92	What Should a Clever Moose Eat?. , 2016, , .		5
93	Northward march of spruce. Nature, 1993, 361, 208-209.	27.8	4
94	Unsolved problems of Boreal regions. Climatic Change, 1996, 33, 343-350.	3.6	3
95	Spatial Patterns in the Moose-Forest-Soil Ecosystem on Isle Royale, Michigan, USA. , 1998, 8, 411.		3
96	Landscape nutrition: seeing the forest instead of the trees. Journal of Animal Ecology, 2011, 80, 707-709.	2.8	3
97	A Method to Determine Long-Term Anaerobic Carbon and Nutrient Mineralization in Soils. SSSA Special Publication Series, 0, , 209-219.	0.2	3
98	The geomorphicâ€"trophic hypothesis for arctic lake food webs. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2000, 27, 3269-3274.	0.1	2
99	Simulated responses of moose populations to browsingâ€induced changes in plant architecture and forage production. Oikos, 2013, 122, 575-582.	2.7	2
100	Nitrogen Cycling and the Control of Chaos in a Boreal Forest Model. , 1997, , 304-319.		2
101	Modeling Carbon and Nitrogen Dynamics in Western Red Cedar and Western Hemlock Forests. , 0, , 547-568.		1
102	The ethical basis of the null hypothesis. Nature, 2008, 453, 1177-1177.	27.8	1
103	Enrichment in a stoichiometric model of two producers and one consumer. Journal of Biological Dynamics, 2012, 6, 97-116.	1.7	1
104	Natural History and Ecology: Three Books You Should Read (and a Few More). Bulletin of the Ecological Society of America, 2018, 99, 242-250.	0.2	1
105	Mathematical Analysis of Melanocyte Patterns on Danio rerio. Zebrafish, 2020, 17, 59-72.	1.1	1
106	Ecosystem Control over Temperature and Energy Flux in Northern Peatlands. , 1999, 9, 1345.		1
107	What Should a Clever Moose Eat?. , 2016, , 131-142.		1
108	Images of a complex world: the Art and Poetry of Chaos. Mathematical Intelligencer, 2007, 29, 87-89.	0.2	0

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109	The Mathematics of Life by Ian Stewart and Lifeâ€™s Other Secret: The New Mathematics of the Living World by Ian Stewart. Mathematical Intelligencer, 2012, 34, 69-71.	0.2	0
110	A Primer on Mathematical Models in Biology by Lee A. Segel and Leah Edelstein-Keshet. Mathematical Intelligencer, 2014, 36, 73-74.	0.2	0
111	How Long Should a Leaf Live?. , 2016, , 67-77.		0
112	The Emergence of the North Woods. , 2016, , 35-47.		0
113	Beaver Ponds and the Flow of Water in Northern Landscapes. , 2016, , 49-55.		0
114	How Should Leaves Die?. , 2016, , 101-110.		0
115	Voles, Fungi, Spruce, and Abandoned Beaver Meadows. , 2016, , 123-130.		0