

# John Pastor

## List of Publications by Year in descending order

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115  
papers

10,538  
citations

66234

42  
h-index

53109

85  
g-index

131  
all docs

131  
docs citations

131  
times ranked

7602  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mathematical Analysis of Melanocyte Patterns on <i>Danio rerio</i> . <i>Zebrafish</i> , 2020, 17, 59-72.	0.5	1
2	Diverse Communities of <i>hgcAB</i> <sup>+</sup> Microorganisms Methylate Mercury in Freshwater Sediments Subjected to Experimental Sulfate Loading. <i>Environmental Science &amp; Technology</i> , 2020, 54, 14265-14274.	4.6	21
3	Interactions between sulfide and reproductive phenology of an annual aquatic plant, wild rice ( <i>Zizania palustris</i> ). <i>Aquatic Botany</i> , 2020, 164, 103230.	0.8	6
4	Cumulative Sulfate Loads Shift Porewater to Sulfidic Conditions in Freshwater Wetland Sediment. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 1231-1244.	2.2	7
5	Natural History and Ecology: Three Books You Should Read (and a Few More). <i>Bulletin of the Ecological Society of America</i> , 2018, 99, 242-250.	0.2	1
6	Iron sulfide formation on root surfaces controlled by the life cycle of wild rice ( <i>Zizania palustris</i> ). <i>Biogeochemistry</i> , 2018, 141, 95-106.	1.7	15
7	Effects of sulfate and sulfide on the life cycle of <i>Zizania palustris</i> in hydroponic and mesocosm experiments. <i>Ecological Applications</i> , 2017, 27, 321-336.	1.8	26
8	Ecosystem Ecology and Evolutionary Biology, a New Frontier for Experiments and Models. <i>Ecosystems</i> , 2017, 20, 245-252.	1.6	11
9	What Should a Clever Moose Eat?. , 2016, , .		5
10	How Long Should a Leaf Live?. , 2016, , 67-77.		0
11	The Emergence of the North Woods. , 2016, , 35-47.		0
12	Beaver Ponds and the Flow of Water in Northern Landscapes. , 2016, , 49-55.		0
13	How Should Leaves Die?. , 2016, , 101-110.		0
14	Voles, Fungi, Spruce, and Abandoned Beaver Meadows. , 2016, , 123-130.		0
15	What Should a Clever Moose Eat?. , 2016, , 131-142.		1
16	A Primer on Mathematical Models in Biology by Lee A. Segel and Leah Edelstein-Keshet. <i>Mathematical Intelligencer</i> , 2014, 36, 73-74.	0.1	0
17	Randomly organized lipids and marginally stable proteins: A coupling of weak interactions to optimize membrane signaling. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 2331-2340.	1.4	5
18	Simulated responses of moose populations to browsing-induced changes in plant architecture and forage production. <i>Oikos</i> , 2013, 122, 575-582.	1.2	2

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19	Enrichment in a stoichiometric model of two producers and one consumer. <i>Journal of Biological Dynamics</i> , 2012, 6, 97-116.	0.8	1
20	Nitrogen, phosphorus and light effects on growth and allocation of biomass and nutrients in wild rice. <i>Oecologia</i> , 2012, 170, 65-76.	0.9	56
21	Nitrogen, phosphorus, and light effects on reproduction and fitness of wild rice. <i>Botany</i> , 2012, 90, 876-883.	0.5	6
22	The Mathematics of Life by Ian Stewart and Life's Other Secret: The New Mathematics of the Living World by Ian Stewart. <i>Mathematical Intelligencer</i> , 2012, 34, 69-71.	0.1	0
23	Landscape nutrition: seeing the forest instead of the trees. <i>Journal of Animal Ecology</i> , 2011, 80, 707-709.	1.3	3
24	Litter Quantity and Nitrogen Immobilization Cause Oscillations in Productivity of Wild Rice ( <i>Zizania</i> )	1.6	10
25	Effects of simulated moose <i>Alces alces</i> browsing on the morphology of rowan <i>Sorbus aucuparia</i> . <i>Wildlife Biology</i> , 2010, 16, 301-307.	0.6	13
26	Declines in moose population density at Isle Royale National Park, MI, USA and accompanied changes in landscape patterns. <i>Landscape Ecology</i> , 2009, 24, 1389-1403.	1.9	20
27	Scaling the effects of moose browsing on forage distribution, from the geometry of plant canopies to landscapes. <i>Ecological Monographs</i> , 2009, 79, 281-297.	2.4	23
28	Depression of belowground respiration rates at simulated high moose population densities in boreal forests. <i>Ecology</i> , 2009, 90, 2724-2733.	1.5	17
29	Evolutionary dynamics. <i>Mathematical Intelligencer</i> , 2008, 30, 64-66.	0.1	8
30	Exotic earthworm effects on hardwood forest floor, nutrient availability and native plants: a mesocosm study. <i>Oecologia</i> , 2008, 155, 509-518.	0.9	80
31	Temperature Responses to Infrared Heating and Water Table Manipulations in Peatland Mesocosms. <i>Journal of Integrative Plant Biology</i> , 2008, 50, 1484-1496.	4.1	12
32	Impact of simulated moose densities on abundance and richness of vegetation, herbivorous and predatory arthropods along a productivity gradient. <i>Ecography</i> , 2008, 31, 636-645.	2.1	34
33	The ethical basis of the null hypothesis. <i>Nature</i> , 2008, 453, 1177-1177.	13.7	1
34	Effects of soil warming and drying on methane cycling in a northern peatland mesocosm study. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	56
35	Effects of moose <i>Alces alces</i> population density and site productivity on the canopy geometries of birch <i>Betula pubescens</i> and <i>B. pendula</i> and Scots pine <i>Pinus sylvestris</i> . <i>Wildlife Biology</i> , 2008, 14, 251-262.	0.6	16
36	RAPID CARBON RESPONSE OF PEATLANDS TO CLIMATE CHANGE. <i>Ecology</i> , 2008, 89, 3041-3048.	1.5	118

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37	Images of a complex world: the Art and Poetry of Chaos. <i>Mathematical Intelligencer</i> , 2007, 29, 87-89.	0.1	0
38	Effects of wild rice ( <i>Zizania palustris</i> ) straw on biomass and seed production in northern Minnesota. <i>Canadian Journal of Botany</i> , 2006, 84, 1019-1024.	1.2	9
39	Increased soil nitrogen associated with dinitrogen-fixing, terricolous lichens of the genus <i>Peltigera</i> in northern Minnesota. <i>Oikos</i> , 2006, 114, 37-48.	1.2	16
40	Impacts of large herbivores on plant community structure and dynamics. , 2006, , 97-141.		79
41	Effects of large herbivores on other fauna. , 2006, , 383-412.		40
42	The roles of large herbivores in ecosystem nutrient cycles. , 2006, , 289-325.		63
43	The influence of large herbivores on tree recruitment and forest dynamics. , 2006, , 170-202.		39
44	Delays in nutrient cycling and plant population oscillations. <i>Oikos</i> , 2006, 112, 698-705.	1.2	22
45	Impact of moose population density on the production and composition of litter in boreal forests. <i>Oikos</i> , 2005, 108, 297-306.	1.2	44
46	Effects of European Earthworm Invasion on Soil Characteristics in Northern Hardwood Forests of Minnesota, USA. <i>Ecosystems</i> , 2005, 8, 911-927.	1.6	206
47	Thoughts on the Generation and Importance of Spatial Heterogeneity in Ecosystems and Landscapes. , 2005, , 49-66.		5
48	Climate change effects on carbon and nitrogen mineralization in peatlands through changes in soil quality. <i>Global Change Biology</i> , 2004, 10, 1053-1064.	4.2	92
49	pH and nutrient effects on above-ground net primary production in a Minnesota, USA bog and fen. <i>Wetlands</i> , 2004, 24, 186-201.	0.7	50
50	The Effects of Infrared Loading and Water Table on Soil Energy Fluxes in Northern Peatlands. <i>Ecosystems</i> , 2004, 7, 573.	1.6	14
51	Global warming and the export of dissolved organic carbon from boreal peatlands. <i>Oikos</i> , 2003, 100, 380-386.	1.2	215
52	Potential effects of warming and drying on peatland plant community composition. <i>Global Change Biology</i> , 2003, 9, 141-151.	4.2	239
53	Title is missing!. <i>Soil Science</i> , 2003, 168, 409-420.	0.9	8
54	NITROGEN, PHOSPHORUS, AND CARBON MINERALIZATION IN RESPONSE TO NUTRIENT AND LIME ADDITIONS IN PEATLANDS. <i>Soil Science</i> , 2003, 168, 409-420.	0.9	34

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55	Plant Community Dynamics, Nutrient Cycling, and Alternative Stable Equilibria in Peatlands. <i>American Naturalist</i> , 2002, 160, 553-568.	1.0	51
56	RESPONSE OF CO <sub>2</sub> AND CH <sub>4</sub> EMISSIONS FROM PEATLANDS TO WARMING AND WATER TABLE MANIPULATION. , 2001, 11, 311-326.		107
57	A Comparison of Nutrient Availability Indices Along an Ombrotrophic to Minerotrophic Gradient in Minnesota Wetlands. <i>Soil Science Society of America Journal</i> , 2001, 65, 259-269.	1.2	51
58	Response of CO <sub>2</sub> and CH <sub>4</sub> Emissions from Peatlands to Warming and Water Table Manipulation. , 2001, 11, 311.		12
59	Production and microtopography of bog bryophytes: response to warming and water-table manipulations. <i>Oecologia</i> , 2001, 128, 557-565.	0.9	122
60	The geomorphic to trophic hypothesis for arctic lake food webs. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2000, 27, 3269-3274.	0.1	2
61	RESPONSE OF BOG AND FEN PLANT COMMUNITIES TO WARMING AND WATER-TABLE MANIPULATIONS. <i>Ecology</i> , 2000, 81, 3464-3478.	1.5	262
62	RESPONSE OF BOG AND FEN PLANT COMMUNITIES TO WARMING AND WATER-TABLE MANIPULATIONS. , 2000, 81, 3464.		12
63	A Geomorphic to Trophic Model for Landscape Control of Arctic Lake Food Webs. <i>BioScience</i> , 1999, 49, 887-897.	2.2	87
64	Nutrient efficiency along nutrient availability gradients. <i>Oecologia</i> , 1999, 118, 50-58.	0.9	61
65	Generation of Spatial Patterns in Boreal Forest Landscapes. <i>Ecosystems</i> , 1999, 2, 439-450.	1.6	60
66	ECOSYSTEM CONTROL OVER TEMPERATURE AND ENERGY FLUX IN NORTHERN PEATLANDS. , 1999, 9, 1345-1358.		97
67	ECOSYSTEM CONTROL OVER TEMPERATURE AND ENERGY FLUX IN NORTHERN PEATLANDS. , 1999, 9, 1345.		1
68	Nitrogen fixation and the mass balances of carbon and nitrogen in ecosystems. <i>Biogeochemistry</i> , 1998, 43, 63-78.	1.7	21
69	Hysteresis in the temperature response of carbon dioxide and methane production in peat soils. <i>Biogeochemistry</i> , 1998, 43, 253-272.	1.7	42
70	Linking Moose Population and Plant Growth Models with a Moose Energetics Model. <i>Ecosystems</i> , 1998, 1, 52-63.	1.6	41
71	CARBON, NITROGEN, AND PHOSPHORUS MINERALIZATION IN NORTHERN WETLANDS. <i>Ecology</i> , 1998, 79, 1545-1561.	1.5	365
72	Spatial Patterns in the Moose-Forest-Soil Ecosystem on Isle Royale, Michigan, USA. , 1998, 8, 411.		3

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73	SPATIAL PATTERNS IN THE MOOSEâ€œFORESTâ€œSOIL ECOSYSTEM ON ISLE ROYALE, MICHIGAN, USA. , 1998, 8, 411-424.		43
74	A Spatially Explicit Model of Moose Foraging and Energetics. Ecology, 1997, 78, 505.	1.5	10
75	A SPATIALLY EXPLICIT MODEL OF MOOSE FORAGINGAND ENERGETICS. Ecology, 1997, 78, 505-521.	1.5	89
76	Herbivores, the Functional Diversity of Plants Species, and the Cycling of Nutrients in Ecosystems. Theoretical Population Biology, 1997, 51, 165-179.	0.5	97
77	Nitrogen Cycling and the Control of Chaos in a Boreal Forest Model. , 1997, , 304-319.		2
78	Multiple limiting gradients in peatlands: A call for a new paradigm. Wetlands, 1996, 16, 45-65.	0.7	232
79	Unsolved problems of Boreal regions. Climatic Change, 1996, 33, 343-350.	1.7	3
80	Carbon and nutrient mineralization and fungal spore composition of fecal pellets from voles in Minnesota. Ecography, 1996, 19, 52-61.	2.1	32
81	Environmental and Substrate Controls over Carbon and Nitrogen Mineralization in Northern Wetlands. , 1995, 5, 151-163.		350
82	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.	1.0	125
83	Nutrient limitations in the northern pitcher plant <i>Sarracenia purpurea</i> . Canadian Journal of Botany, 1995, 73, 728-734.	1.2	56
84	Carbon Isotope Dynamics During Grass Decomposition and Soil Organic Matter Formation. Ecology, 1995, 76, 1383-1392.	1.5	252
85	Potential Feedbacks of Northern Wetlands on Climate Change. BioScience, 1995, 45, 262-274.	2.2	152
86	Beaver Influences on the Long-Term Biogeochemical Characteristics of Boreal Forest Drainage Networks. Ecology, 1994, 75, 905-921.	1.5	214
87	Applying Principles of Landscape Design and Management to Integrate Old-Growth Forest Enhancement and Commodity Use. Conservation Biology, 1994, 8, 752-762.	2.4	38
88	Nitrogen mineralization dynamics in grass monocultures. Oecologia, 1993, 96, 186-192.	0.9	126
89	Linear regressions do not predict the transient responses of eastern north american forests to CO2-induced climate change. Climatic Change, 1993, 23, 111-119.	1.7	29
90	Northward march of spruce. Nature, 1993, 361, 208-209.	13.7	4

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91	Patch Formation and Maintenance in an Old-Growth Hemlock-Hardwood Forest. <i>Ecology</i> , 1993, 74, 513-527.	1.5	184
92	Decay and nitrogen dynamics of litter from disjunct, congeneric tree species in old-growth stands in northeastern China and Wisconsin. <i>Canadian Journal of Botany</i> , 1993, 71, 693-699.	1.2	24
93	Comparing Spatial Pattern in Unaltered Old-Growth and Disturbed Forest Landscapes. , 1993, 3, 294-306.		284
94	Effects of Moose Browsing on Vegetation and Litter of the Boreal Forest, Isle Royale, Michigan, USA. <i>Ecology</i> , 1992, 73, 2059-2075.	1.5	271
95	Selective Foraging and Ecosystem Processes in Boreal Forests. <i>American Naturalist</i> , 1992, 139, 690-705.	1.0	280
96	Quantitative Methods for Studying Landscape Boundaries. <i>Ecological Studies</i> , 1992, , 107-125.	0.4	48
97	Using Simulation Models and Geographic Information Systems to Integrate Ecosystem and Landscape Ecology. , 1992, , 324-346.		13
98	State-of-the-Art of Models of Production-Decomposition Linkages in Conifer and Grassland Ecosystems. , 1991, 1, 118-138.		177
99	Factors Controlling Nitrogen Cycling and Nitrogen Saturation in Northern Temperate Forest Ecosystems. , 1991, 1, 303-315.		157
100	The Responses of a Forest Model to Serial Correlations of Global Warming. <i>Ecology</i> , 1991, 72, 1161-1165.	1.5	23
101	The spatial pattern of a northern conifer-hardwood landscape. <i>Landscape Ecology</i> , 1990, 4, 55-68.	1.9	103
102	Response of northern forests to CO <sub>2</sub> -induced climate change. <i>Nature</i> , 1988, 334, 55-58.	13.7	583
103	The Potential Importance of Boundaries of Fluvial Ecosystems. <i>Journal of the North American Benthological Society</i> , 1988, 7, 289-306.	3.0	270
104	Moose, Microbes, and the Boreal Forest. <i>BioScience</i> , 1988, 38, 770-777.	2.2	246
105	Influence of climate, soil moisture, and succession on forest carbon and nitrogen cycles. <i>Biogeochemistry</i> , 1986, 2, 3-27.	1.7	618
106	Fine root turnover in forest ecosystems in relation to quantity and form of nitrogen availability: a comparison of two methods. <i>Oecologia</i> , 1985, 66, 317-321.	0.9	345
107	Global patterns of soil nitrogen storage. <i>Nature</i> , 1985, 317, 613-616.	13.7	416
108	Forest Litter Decomposition in Relation to Soil Nitrogen Dynamics and Litter Quality. <i>Ecology</i> , 1985, 66, 266-275.	1.5	481

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109	Aboveground Production and N and P Cycling Along a Nitrogen Mineralization Gradient on Blackhawk Island, Wisconsin. <i>Ecology</i> , 1984, 65, 256-268.	1.5	683
110	Distribution and Cycling of Nutrients in an Aspen-Mixed-Hardwood-Spodosol Ecosystem in Northern Wisconsin. <i>Ecology</i> , 1984, 65, 339-353.	1.5	96
111	Biomass prediction using generalized allometric regressions for some northeast tree species. <i>Forest Ecology and Management</i> , 1984, 7, 265-274.	1.4	141
112	Geology, Soils and Vegetation of Blackhawk Island, Wisconsin. <i>American Midland Naturalist</i> , 1982, 108, 266.	0.2	41
113	Biomass and production of an aspen "mixed hardwood" spodosol ecosystem in northern Wisconsin. <i>Canadian Journal of Forest Research</i> , 1981, 11, 132-138.	0.8	48
114	Modeling Carbon and Nitrogen Dynamics in Western Red Cedar and Western Hemlock Forests. , 0, , 547-568.		1
115	A Method to Determine Long-Term Anaerobic Carbon and Nutrient Mineralization in Soils. <i>SSSA Special Publication Series</i> , 0, , 209-219.	0.2	3