

John Pastor

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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 |
| 2 | Influence of climate, soil moisture, and succession on forest carbon and nitrogen cycles. <i>Biogeochemistry</i> , 1986, 2, 3-27. | 1.7 | 618 |
| 3 | Response of northern forests to CO ₂ -induced climate change. <i>Nature</i> , 1988, 334, 55-58. | 13.7 | 583 |
| 4 | Forest Litter Decomposition in Relation to Soil Nitrogen Dynamics and Litter Quality. <i>Ecology</i> , 1985, 66, 266-275. | 1.5 | 481 |
| 5 | Global patterns of soil nitrogen storage. <i>Nature</i> , 1985, 317, 613-616. | 13.7 | 416 |
| 6 | CARBON, NITROGEN, AND PHOSPHORUS MINERALIZATION IN NORTHERN WETLANDS. <i>Ecology</i> , 1998, 79, 1545-1561. | 1.5 | 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. <i>Oecologia</i> , 1985, 66, 317-321. | 0.9 | 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. <i>American Naturalist</i> , 1992, 139, 690-705. | 1.0 | 280 |
| 11 | 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 |
| 12 | The Potential Importance of Boundaries of Fluvial Ecosystems. <i>Journal of the North American Benthological Society</i> , 1988, 7, 289-306. | 3.0 | 270 |
| 13 | RESPONSE OF BOG AND FEN PLANT COMMUNITIES TO WARMING AND WATER-TABLE MANIPULATIONS. <i>Ecology</i> , 2000, 81, 3464-3478. | 1.5 | 262 |
| 14 | Carbon Isotope Dynamics During Grass Decomposition and Soil Organic Matter Formation. <i>Ecology</i> , 1995, 76, 1383-1392. | 1.5 | 252 |
| 15 | Moose, Microbes, and the Boreal Forest. <i>BioScience</i> , 1988, 38, 770-777. | 2.2 | 246 |
| 16 | Potential effects of warming and drying on peatland plant community composition. <i>Global Change Biology</i> , 2003, 9, 141-151. | 4.2 | 239 |
| 17 | Multiple limiting gradients in peatlands: A call for a new paradigm. <i>Wetlands</i> , 1996, 16, 45-65. | 0.7 | 232 |
| 18 | Global warming and the export of dissolved organic carbon from boreal peatlands. <i>Oikos</i> , 2003, 100, 380-386. | 1.2 | 215 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Beaver Influences on the Long-Term Biogeochemical Characteristics of Boreal Forest Drainage Networks. <i>Ecology</i> , 1994, 75, 905-921. | 1.5 | 214 |
| 20 | 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 |
| 21 | Patch Formation and Maintenance in an Old-Growth Hemlock-Hardwood Forest. <i>Ecology</i> , 1993, 74, 513-527. | 1.5 | 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. <i>BioScience</i> , 1995, 45, 262-274. | 2.2 | 152 |
| 25 | Biomass prediction using generalized allometric regressions for some northeast tree species. <i>Forest Ecology and Management</i> , 1984, 7, 265-274. | 1.4 | 141 |
| 26 | Nitrogen mineralization dynamics in grass monocultures. <i>Oecologia</i> , 1993, 96, 186-192. | 0.9 | 126 |
| 27 | Nutrient-Use Efficiency: A Litterfall Index, a Model, and a Test Along a Nutrient-Availability Gradient in North Carolina Peatlands. <i>American Naturalist</i> , 1995, 145, 1-21. | 1.0 | 125 |
| 28 | Production and microtopography of bog bryophytes: response to warming and water-table manipulations. <i>Oecologia</i> , 2001, 128, 557-565. | 0.9 | 122 |
| 29 | RAPID CARBON RESPONSE OF PEATLANDS TO CLIMATE CHANGE. <i>Ecology</i> , 2008, 89, 3041-3048. | 1.5 | 118 |
| 30 | RESPONSE OF CO ₂ AND CH ₄ EMISSIONS FROM PEATLANDS TO WARMING AND WATER TABLE MANIPULATION. , 2001, 11, 311-326. | | 107 |
| 31 | The spatial pattern of a northern conifer-hardwood landscape. <i>Landscape Ecology</i> , 1990, 4, 55-68. | 1.9 | 103 |
| 32 | Herbivores, the Functional Diversity of Plants Species, and the Cycling of Nutrients in Ecosystems. <i>Theoretical Population Biology</i> , 1997, 51, 165-179. | 0.5 | 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. <i>Ecology</i> , 1984, 65, 339-353. | 1.5 | 96 |
| 35 | 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 |
| 36 | A SPATIALLY EXPLICIT MODEL OF MOOSE FORAGING AND ENERGETICS. <i>Ecology</i> , 1997, 78, 505-521. | 1.5 | 89 |

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|----|---|-----|-----------|
| 37 | A Geomorphicâ€”Trophic Model for Landscape Control of Arctic Lake Food Webs. <i>BioScience</i> , 1999, 49, 887-897. | 2.2 | 87 |
| 38 | 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 |
| 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. <i>Oecologia</i> , 1999, 118, 50-58. | 0.9 | 61 |
| 42 | Generation of Spatial Patterns in Boreal Forest Landscapes. <i>Ecosystems</i> , 1999, 2, 439-450. | 1.6 | 60 |
| 43 | Nutrient limitations in the northern pitcher plant <i>Sarracenia purpurea</i> . <i>Canadian Journal of Botany</i> , 1995, 73, 728-734. | 1.2 | 56 |
| 44 | 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 |
| 45 | 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 |
| 46 | A Comparison of Nutrient Availability Indices Along an Ombrotrophicâ€”Minerotrophic Gradient in Minnesota Wetlands. <i>Soil Science Society of America Journal</i> , 2001, 65, 259-269. | 1.2 | 51 |
| 47 | Plant Community Dynamics, Nutrient Cycling, and Alternative Stable Equilibria in Peatlands. <i>American Naturalist</i> , 2002, 160, 553-568. | 1.0 | 51 |
| 48 | 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 |
| 49 | Biomass and production of an aspen â€” mixed hardwood â€” spodosol ecosystem in northern Wisconsin. <i>Canadian Journal of Forest Research</i> , 1981, 11, 132-138. | 0.8 | 48 |
| 50 | Quantitative Methods for Studying Landscape Boundaries. <i>Ecological Studies</i> , 1992, , 107-125. | 0.4 | 48 |
| 51 | 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 |
| 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. <i>Biogeochemistry</i> , 1998, 43, 253-272. | 1.7 | 42 |
| 54 | Geology, Soils and Vegetation of Blackhawk Island, Wisconsin. <i>American Midland Naturalist</i> , 1982, 108, 266. | 0.2 | 41 |

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|----|--|-----|-----------|
| 55 | Linking Moose Population and Plant Growth Models with a Moose Energetics Model. <i>Ecosystems</i> , 1998, 1, 52-63. | 1.6 | 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. <i>Conservation Biology</i> , 1994, 8, 752-762. | 2.4 | 38 |
| 59 | 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 |
| 60 | 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 |
| 61 | Carbon and nutrient mineralization and fungal spore composition of fecal pellets from voles in Minnesota. <i>Ecography</i> , 1996, 19, 52-61. | 2.1 | 32 |
| 62 | Linear regressions do not predict the transient responses of eastern north american forests to CO2-induced climate change. <i>Climatic Change</i> , 1993, 23, 111-119. | 1.7 | 29 |
| 63 | 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 |
| 64 | 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 |
| 65 | The Responses of a Forest Model to Serial Correlations of Global Warming. <i>Ecology</i> , 1991, 72, 1161-1165. | 1.5 | 23 |
| 66 | 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 |
| 67 | Delays in nutrient cycling and plant population oscillations. <i>Oikos</i> , 2006, 112, 698-705. | 1.2 | 22 |
| 68 | Nitrogen fixation and the mass balances of carbon and nitrogen in ecosystems. <i>Biogeochemistry</i> , 1998, 43, 63-78. | 1.7 | 21 |
| 69 | Diverse Communities of <i>hgcAB</i> Microorganisms Methylate Mercury in Freshwater Sediments Subjected to Experimental Sulfate Loading. <i>Environmental Science & Technology</i> , 2020, 54, 14265-14274. | 4.6 | 21 |
| 70 | 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 |
| 71 | Depression of belowground respiration rates at simulated high moose population densities in boreal forests. <i>Ecology</i> , 2009, 90, 2724-2733. | 1.5 | 17 |
| 72 | 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 |

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|----|--|-----|-----------|
| 73 | 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 |
| 74 | 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 |
| 75 | The Effects of Infrared Loading and Water Table on Soil Energy Fluxes in Northern Peatlands. <i>Ecosystems</i> , 2004, 7, 573. | 1.6 | 14 |
| 76 | 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 |
| 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 Infrared Loading and Water Table Manipulations in Peatland Mesocosms. <i>Journal of Integrative Plant Biology</i> , 2008, 50, 1484-1496. | 4.1 | 12 |
| 80 | RESPONSE OF BOG AND FEN PLANT COMMUNITIES TO WARMING AND WATER-TABLE MANIPULATIONS. , 2000, 81, 3464. | | 12 |
| 81 | Ecosystem Ecology and Evolutionary Biology, a New Frontier for Experiments and Models. <i>Ecosystems</i> , 2017, 20, 245-252. | 1.6 | 11 |
| 82 | A Spatially Explicit Model of Moose Foraging and Energetics. <i>Ecology</i> , 1997, 78, 505. | 1.5 | 10 |
| 83 | Litter Quantity and Nitrogen Immobilization Cause Oscillations in Productivity of Wild Rice (<i>Zizania</i>) Tj ETQq1 1 0.784314 rgBT /Over | 1.6 | 10 |
| 84 | 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 |
| 85 | Title is missing!. <i>Soil Science</i> , 2003, 168, 409-420. | 0.9 | 8 |
| 86 | Evolutionary dynamics. <i>Mathematical Intelligencer</i> , 2008, 30, 64-66. | 0.1 | 8 |
| 87 | 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 |
| 88 | Nitrogen, phosphorus, and light effects on reproduction and fitness of wild rice. <i>Botany</i> , 2012, 90, 876-883. | 0.5 | 6 |
| 89 | 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 |
| 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. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 2331-2340. | 1.4 | 5 |
| 92 | What Should a Clever Moose Eat?. , 2016, , . | | 5 |
| 93 | Northward march of spruce. <i>Nature</i> , 1993, 361, 208-209. | 13.7 | 4 |
| 94 | Unsolved problems of Boreal regions. <i>Climatic Change</i> , 1996, 33, 343-350. | 1.7 | 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. <i>Journal of Animal Ecology</i> , 2011, 80, 707-709. | 1.3 | 3 |
| 97 | 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 |
| 98 | The geomorphicâ€™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 |
| 99 | Simulated responses of moose populations to browsingâ€™induced changes in plant architecture and forage production. <i>Oikos</i> , 2013, 122, 575-582. | 1.2 | 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. <i>Nature</i> , 2008, 453, 1177-1177. | 13.7 | 1 |
| 103 | Enrichment in a stoichiometric model of two producers and one consumer. <i>Journal of Biological Dynamics</i> , 2012, 6, 97-116. | 0.8 | 1 |
| 104 | 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 |
| 105 | Mathematical Analysis of Melanocyte Patterns on <i>Danio rerio</i> . <i>Zebrafish</i> , 2020, 17, 59-72. | 0.5 | 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. <i>Mathematical Intelligencer</i> , 2007, 29, 87-89. | 0.1 | 0 |

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|-----|--|-----|-----------|
| 109 | The Mathematics of Life by Ian Stewart and Life's Other Secret: The New Mathematics of the Living World by Ian Stewart. Mathematical Intelligencer, 2012, 34, 69-71. | 0.1 | 0 |
| 110 | A Primer on Mathematical Models in Biology by Lee A. Segel and Leah Edelstein-Keshet. Mathematical Intelligencer, 2014, 36, 73-74. | 0.1 | 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 |