

John D Aber

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

24,870
citations

12303

69
h-index

34900

98
g-index

100
all docs

100
docs citations

100
times ranked

14970
citing authors

#	ARTICLE	IF	CITATIONS
1	The Nitrogen Cascade. <i>BioScience</i> , 2003, 53, 341.	2.2	2,278
2	Nitrogen and Lignin Control of Hardwood Leaf Litter Decomposition Dynamics. <i>Ecology</i> , 1982, 63, 621-626.	1.5	2,194
3	Nitrogen Saturation in Northern Forest Ecosystems. <i>BioScience</i> , 1989, 39, 378-386.	2.2	2,074
4	Nitrogen Saturation in Temperate Forest Ecosystems. <i>BioScience</i> , 1998, 48, 921-934.	2.2	1,630
5	The Importance of Land-Use Legacies to Ecology and Conservation. <i>BioScience</i> , 2003, 53, 77.	2.2	916
6	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
7	Satellite-based modeling of gross primary production in an evergreen needleleaf forest. <i>Remote Sensing of Environment</i> , 2004, 89, 519-534.	4.6	682
8	Carbon and nitrogen dynamics along the decay continuum: Plant litter to soil organic matter. <i>Plant and Soil</i> , 1989, 115, 189-198.	1.8	605
9	Is Nitrogen Deposition Altering the Nitrogen Status of Northeastern Forests?. <i>BioScience</i> , 2003, 53, 375.	2.2	544
10	A generalized, lumped-parameter model of photosynthesis, evapotranspiration and net primary production in temperate and boreal forest ecosystems. <i>Oecologia</i> , 1992, 92, 463-474.	0.9	517
11	The Role of Fine Roots in the Organic Matter and Nitrogen Budgets of Two Forested Ecosystems. <i>Ecology</i> , 1982, 63, 1481-1490.	1.5	480
12	Fine Roots, Net Primary Production, and Soil Nitrogen Availability: A New Hypothesis. <i>Ecology</i> , 1985, 66, 1377-1390.	1.5	451
13	NITROGEN MINERALIZATION AND PRODUCTIVITY IN 50 HARDWOOD AND CONIFER STANDS ON DIVERSE SOILS. <i>Ecology</i> , 1997, 78, 335-347.	1.5	429
14	Ecosystem response to 15 years of chronic nitrogen additions at the Harvard Forest LTER, Massachusetts, USA. <i>Forest Ecology and Management</i> , 2004, 196, 7-28.	1.4	387
15	Nitrogen immobilization in decaying hardwood leaf litter as a function of initial nitrogen and lignin content. <i>Canadian Journal of Botany</i> , 1982, 60, 2263-2269.	1.2	355
16	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
17	Nitrogen cycling and nitrogen saturation in temperate forest ecosystems. <i>Trends in Ecology and Evolution</i> , 1992, 7, 220-224.	4.2	341
18	Factors controlling atmospheric methane consumption by temperate forest soils. <i>Global Biogeochemical Cycles</i> , 1995, 9, 1-10.	1.9	341

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19	Nitrogen Pollution in the Northeastern United States: Sources, Effects, and Management Options. <i>BioScience</i> , 2003, 53, 357.	2.2	335
20	Vertical transport of dissolved organic C and N under long-term N amendments in pine and hardwood forests. <i>Biogeochemistry</i> , 1996, 35, 471-505.	1.7	325
21	Remote sensing of canopy chemistry and nitrogen cycling in temperate forest ecosystems. <i>Nature</i> , 1988, 335, 154-156.	13.7	306
22	Long-Term Nitrogen Additions and Nitrogen Saturation in Two Temperate Forests. <i>Ecosystems</i> , 2000, 3, 238-253.	1.6	301
23	Extrapolating leaf CO ₂ exchange to the canopy: a generalized model of forest photosynthesis compared with measurements by eddy correlation. <i>Oecologia</i> , 1996, 106, 257-265.	0.9	266
24	Modeling nitrogen saturation in forest ecosystems in response to land use and atmospheric deposition. <i>Ecological Modelling</i> , 1997, 101, 61-78.	1.2	262
25	Prediction of leaf chemistry by the use of visible and near infrared reflectance spectroscopy. <i>Remote Sensing of Environment</i> , 1988, 26, 123-147.	4.6	235
26	Title is missing!. <i>Plant and Soil</i> , 1998, 203, 301-311.	1.8	224
27	Remote sensing of forest canopy and leaf biochemical contents. <i>Remote Sensing of Environment</i> , 1988, 24, 85-108.	4.6	219
28	Environmental variation is directly responsible for short-term but not long-term variation in forest-atmosphere carbon exchange. <i>Global Change Biology</i> , 2007, 13, 788-803.	4.2	219
29	Forest biogeochemistry and primary production altered by nitrogen saturation. <i>Water, Air, and Soil Pollution</i> , 1995, 85, 1665-1670.	1.1	210
30	Interactive effects of nitrogen deposition, tropospheric ozone, elevated CO ₂ and land use history on the carbon dynamics of northern hardwood forests. <i>Global Change Biology</i> , 2002, 8, 545-562.	4.2	205
31	Forest Processes and Global Environmental Change: Predicting the Effects of Individual and Multiple Stressors. <i>BioScience</i> , 2001, 51, 735.	2.2	194
32	Effects of land use, climate variation, and N deposition on N cycling and C storage in northern hardwood forests. <i>Global Biogeochemical Cycles</i> , 1997, 11, 639-648.	1.9	192
33	Leaf-litter production and soil organic matter dynamics along a nitrogen-availability gradient in Southern Wisconsin (U.S.A.). <i>Canadian Journal of Forest Research</i> , 1983, 13, 12-21.	0.8	191
34	Assessing the role of fine roots in carbon and nutrient cycling. <i>Trends in Ecology and Evolution</i> , 1993, 8, 174-178.	4.2	187
35	The Long-term Effects of Disturbance on Organic and Inorganic Nitrogen Export in the White Mountains, New Hampshire. <i>Ecosystems</i> , 2000, 3, 433-450.	1.6	185
36	Hemlock woolly adelgid impacts on community structure and N cycling rates in eastern hemlock forests. <i>Canadian Journal of Forest Research</i> , 1999, 29, 630-645.	0.8	181

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37	Seasonal patterns of ammonium and nitrate uptake in nine temperate forest ecosystems. <i>Plant and Soil</i> , 1984, 80, 321-335.	1.8	174
38	Determination of carbon fraction and nitrogen concentration in tree foliage by near infrared reflectances: a comparison of statistical methods. <i>Canadian Journal of Forest Research</i> , 1996, 26, 590-600.	0.8	171
39	Forest Response to Disturbance and Anthropogenic Stress. <i>BioScience</i> , 1997, 47, 437-445.	2.2	165
40	Nitrogen saturation in a high elevation New England spruce-fir stand. <i>Forest Ecology and Management</i> , 1996, 84, 109-121.	1.4	161
41	Foliage-Height Profiles and Succession in Northern Hardwood Forests. <i>Ecology</i> , 1979, 60, 18-23.	1.5	159
42	Foliar analysis using near infrared reflectance spectroscopy. <i>Canadian Journal of Forest Research</i> , 1988, 18, 6-11.	0.8	145
43	Biomass prediction using generalized allometric regressions for some northeast tree species. <i>Forest Ecology and Management</i> , 1984, 7, 265-274.	1.4	141
44	Determination of nitrogen, lignin, and cellulose content of decomposing leaf material by near infrared reflectance spectroscopy. <i>Canadian Journal of Forest Research</i> , 1991, 21, 1684-1688.	0.8	140
45	Experimental inducement of nitrogen saturation at the watershed scale. <i>Environmental Science & Technology</i> , 1993, 27, 565-568.	4.6	138
46	The fate of ¹⁵ N-labelled nitrate additions to a northern hardwood forest in eastern Maine, USA. <i>Oecologia</i> , 1995, 103, 292-301.	0.9	134
47	MODELING LEACHING AS A DECOMPOSITION PROCESS IN HUMID MONTANE FORESTS. <i>Ecology</i> , 1997, 78, 1844-1860.	1.5	133
48	Dissolved organic carbon and nitrogen relationships in forest litter as affected by nitrogen deposition. <i>Soil Biology and Biochemistry</i> , 2000, 32, 603-613.	4.2	130
49	Decadal-scale fates of tracers added to oak and pine stands under ambient and elevated N inputs at the Harvard Forest (USA). <i>Forest Ecology and Management</i> , 2004, 196, 89-107.	1.4	129
50	Effects of chronic nitrogen amendment on dissolved organic matter and inorganic nitrogen in soil solution. <i>Forest Ecology and Management</i> , 2004, 196, 29-41.	1.4	125
51	Predicting the effects of different harvesting regimes on forest floor dynamics in northern hardwoods. <i>Canadian Journal of Forest Research</i> , 1978, 8, 306-315.	0.8	124
52	Variation in soil net mineralization rates with dissolved organic carbon additions. <i>Soil Biology and Biochemistry</i> , 2000, 32, 597-601.	4.2	123
53	Nitrogen oxide gas emissions from temperate forest soils receiving long-term nitrogen inputs. <i>Global Change Biology</i> , 2003, 9, 346-357.	4.2	122
54	Short-term soil respiration and nitrogen immobilization response to nitrogen applications in control and nitrogen-enriched temperate forests. <i>Forest Ecology and Management</i> , 2004, 196, 57-70.	1.4	114

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55	Exchange of N ₂ O and CH ₄ between the atmosphere and soils in spruce-fir forests in the northeastern United States. <i>Biogeochemistry</i> , 1992, 18, 119-135.	1.7	110
56	Comparison of wet chemistry and near infrared reflectance measurements of carbon-fraction chemistry and nitrogen concentration of forest foliage. <i>Canadian Journal of Forest Research</i> , 1991, 21, 1689-1693.	0.8	109
57	Using Mechanistic Models to Scale Ecological Processes across Space and Time. <i>BioScience</i> , 2003, 53, 68.	2.2	101
58	Evaluation of an integrated biogeochemical model (PnET-BGC) at a northern hardwood forest ecosystem. <i>Water Resources Research</i> , 2001, 37, 1057-1070.	1.7	99
59	The influence of substrate quality and stream size on wood decomposition dynamics. <i>Oecologia</i> , 1983, 58, 281-285.	0.9	98
60	Forest ecosystem response to four years of chronic nitrate and sulfate additions at Bear Brooks Watershed, Maine, USA. <i>Forest Ecology and Management</i> , 1996, 84, 29-37.	1.4	92
61	Long-term Decreases in Stream Nitrate: Successional Causes Unlikely; Possible Links to DOC?. <i>Ecosystems</i> , 2005, 8, 334-337.	1.6	89
62	Estimating regional forest productivity and water yield using an ecosystem model linked to a GIS. <i>Landscape Ecology</i> , 1998, 13, 323-334.	1.9	82
63	Gross nitrogen process rates in temperate forest soils exhibiting symptoms of nitrogen saturation. <i>Forest Ecology and Management</i> , 2004, 196, 129-142.	1.4	79
64	Nitrogen Controls on Fine Root Substrate Quality in Temperate Forest Ecosystems. <i>Ecosystems</i> , 2000, 3, 57-69.	1.6	77
65	Red spruce ecosystem level changes following 14 years of chronic N fertilization. <i>Forest Ecology and Management</i> , 2005, 219, 279-291.	1.4	75
66	Predicting the effects of different harvesting regimes on productivity and yield in northern hardwoods. <i>Canadian Journal of Forest Research</i> , 1979, 9, 10-14.	0.8	71
67	Immobilization of a ¹⁵ N-labeled nitrate addition by decomposing forest litter. <i>Oecologia</i> , 1996, 105, 141-150.	0.9	71
68	Foliar free polyamine and inorganic ion content in relation to soil and soil solution chemistry in two fertilized forest stands at the Harvard Forest, Massachusetts. <i>Plant and Soil</i> , 2000, 222, 119-137.	1.8	67
69	Carbon budget of the Harvard Forest Long-Term Ecological Research site: pattern, process, and response to global change. <i>Ecological Monographs</i> , 2020, 90, e01423.	2.4	67
70	Fluxes of greenhouse gases between soils and the atmosphere in a temperate forest following a simulated hurricane blowdown. <i>Biogeochemistry</i> , 1993, 21, 61-71.	1.7	58
71	Analyses of Forest Foliage III: Determining Nitrogen, Lignin and Cellulose in Fresh Leaves Using near Infrared Reflectance Data. <i>Journal of Near Infrared Spectroscopy</i> , 1994, 2, 25-32.	0.8	57
72	Decomposing litter as a sink for ¹⁵ N-enriched additions to an oak forest and a red pine plantation. <i>Forest Ecology and Management</i> , 2004, 196, 71-87.	1.4	52

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73	Leaching of nutrient cations from the forest floor: effects of nitrogen saturation in two long-term manipulations. <i>Canadian Journal of Forest Research</i> , 1999, 29, 609-620.	0.8	48
74	Redistributions of highlight turnover and replenishment of mineral soil organic N as a long-term control on forest C balance. <i>Forest Ecology and Management</i> , 2004, 196, 109-127.	1.4	46
75	Leaf Production During Secondary Succession in Northern Hardwoods. <i>Ecology</i> , 1980, 61, 200-204.	1.5	43
76	Analyses of Forest Foliage II: Measurement of Carbon Fraction and Nitrogen Content by End-Member Analysis. <i>Journal of Near Infrared Spectroscopy</i> , 1994, 2, 15-23.	0.8	40
77	Spatial variability of digital soil maps and its impact on regional ecosystem modeling. <i>Ecological Modelling</i> , 1995, 82, 1-10.	1.2	38
78	Energy recovery from commercial-scale composting as a novel waste management strategy. <i>Applied Energy</i> , 2018, 211, 194-199.	5.1	37
79	A strategy for the regional analysis of the effects of physical and chemical climate change on biogeochemical cycles in northeastern (U.S.) forests. <i>Ecological Modelling</i> , 1993, 67, 37-47.	1.2	34
80	Nor Gloom of Night: A New Conceptual Model for the Hubbard Brook Ecosystem Study. <i>BioScience</i> , 2004, 54, 139.	2.2	31
81	Heat Recovery from Composting: A Comprehensive Review of System Design, Recovery Rate, and Utilization. <i>Compost Science and Utilization</i> , 2017, 25, S11-S22.	1.2	31
82	Sources of Variability in Net Primary Production Predictions at a Regional Scale: A Comparison Using PnET-II and TEM 4.0 in Northeastern US Forests. <i>Ecosystems</i> , 1999, 2, 555-570.	1.6	30
83	Primary production and nitrogen allocation of field grown sugar maples in relation to nitrogen availability. <i>Biogeochemistry</i> , 1985, 1, 135-154.	1.7	29
84	Analyses of Forest Foliage I: Laboratory Procedures for Proximate Carbon Fractionation and Nitrogen Determination. <i>Journal of Near Infrared Spectroscopy</i> , 1994, 2, 5-14.	0.8	22
85	Application of pnet-cn/chess to a spruce stand in Solling, Germany. <i>Ecological Modelling</i> , 1995, 83, 163-172.	1.2	22
86	Influence of excess nitrogen deposition on a white spruce (<i>Picea glauca</i>) stand in southern Alaska. <i>Biogeochemistry</i> , 1997, 38, 173-187.	1.7	20
87	A 15 N tracer technique for assessing fine root production and mortality. <i>Oecologia</i> , 1997, 112, 300-304.	0.9	20
88	Application of the forest-soil-water model (PnET-BGC/CHESS) to the Lysina catchment, Czech Republic. <i>Ecological Modelling</i> , 1999, 120, 9-30.	1.2	19
89	US National Climate Change Assessment on Forest Ecosystems: An Introduction. <i>BioScience</i> , 2001, 51, 720.	2.2	19
90	Restoration Ecology: An Environmental Middle Ground. <i>BioScience</i> , 1985, 35, 399-399.	2.2	18

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91	Assessing nitrogen fluxes from roots to soil associated to rhizodeposition by apple (Malus) Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tt 5	0.9	16
92	A national critical loads framework for atmospheric deposition effects assessment: IV. Model selection, applications, and critical loads mapping. Environmental Management, 1993, 17, 355-363.	1.2	14
93	A comparison of mapped estimates of long-term runoff in the northeast United States. Journal of Hydrology, 1998, 206, 176-190.	2.3	13
94	Forced aeration composting, aerated static pile, and similar methods. , 2022, , 197-269.		4
95	Reaching Scientific Consensus and Informing Public Policy. BioScience, 2001, 51, 699.	2.2	1
96	Case Study: Economic viability of producing animal bedding from low quality and small diameter trees using a wood shaving machine. The Professional Animal Scientist, 2017, 33, 771-779.	0.7	1
97	Utilization of Low Grade Wood for Use as Animal Bedding: A Case Study of Eastern Hemlock. Journal of Forestry, 2018, 116, 520-528.	0.5	0