

Christine L Goodale

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

11,742
citations

61857

43
h-index

76769

74
g-index

87
all docs

87
docs citations

87
times ranked

11803
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent patterns and mechanisms of carbon exchange by terrestrial ecosystems. <i>Nature</i> , 2001, 414, 169-172.	13.7	1,162
2	Consistent Land- and Atmosphere-Based U.S. Carbon Sink Estimates. <i>Science</i> , 2001, 292, 2316-2320.	6.0	746
3	FOREST CARBON SINKS IN THE NORTHERN HEMISPHERE. , 2002, 12, 891-899.		696
4	Fate of soil-applied black carbon: downward migration, leaching and soil respiration. <i>Global Change Biology</i> , 2010, 16, 1366-1379.	4.2	610
5	Increased tree carbon storage in response to nitrogen deposition in the US. <i>Nature Geoscience</i> , 2010, 3, 13-17.	5.4	582
6	Is Nitrogen Deposition Altering the Nitrogen Status of Northeastern Forests?. <i>BioScience</i> , 2003, 53, 375.	2.2	544
7	Title is missing!. <i>Biogeochemistry</i> , 2002, 57, 137-169.	1.7	516
8	Title is missing!. <i>Biogeochemistry</i> , 2002, 57, 171-197.	1.7	396
9	Effects of nitrogen deposition and empirical nitrogen critical loads for ecoregions of the United States. , 2011, 21, 3049-3082.		373
10	Nitrogen Pollution in the Northeastern United States: Sources, Effects, and Management Options. <i>BioScience</i> , 2003, 53, 357.	2.2	335
11	Chronic nitrogen additions suppress decomposition and sequester soil carbon in temperate forests. <i>Biogeochemistry</i> , 2014, 121, 305-316.	1.7	302
12	Title is missing!. <i>Biogeochemistry</i> , 2002, 57, 267-293.	1.7	298
13	Key ecological responses to nitrogen are altered by climate change. <i>Nature Climate Change</i> , 2016, 6, 836-843.	8.1	261
14	Soil Carbon Dynamics after Forest Harvest: An Ecosystem Paradigm Reconsidered. <i>Ecosystems</i> , 2003, 6, 197-212.	1.6	251
15	Forest carbon storage: ecology, management, and policy. <i>Frontiers in Ecology and the Environment</i> , 2010, 8, 245-252.	1.9	237
16	THE LONG-TERM EFFECTS OF LAND-USE HISTORY ON NITROGEN CYCLING IN NORTHERN HARDWOOD FORESTS. , 2001, 11, 253-267.		226
17	A New Conceptual Model of Nitrogen Saturation Based on Experimental Nitrogen Addition to an Oak Forest. <i>Ecosystems</i> , 2011, 14, 615-631.	1.6	218
18	Temperature sensitivity of soil enzyme kinetics under N-fertilization in two temperate forests. <i>Global Change Biology</i> , 2012, 18, 1173-1184.	4.2	215

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19	DIRECT ESTIMATION OF ABOVEGROUND FOREST PRODUCTIVITY THROUGH HYPERSPECTRAL REMOTE SENSING OF CANOPY NITROGEN. , 2002, 12, 1286-1302.		203
20	Sinks for nitrogen inputs in terrestrial ecosystems: a meta-analysis of ¹⁵ N tracer field studies. Ecology, 2012, 93, 1816-1829.	1.5	192
21	The Long-term Effects of Disturbance on Organic and Inorganic Nitrogen Export in the White Mountains, New Hampshire. Ecosystems, 2000, 3, 433-450.	1.6	185
22	Inorganic Nitrogen Losses from a Forested Ecosystem in Response to Physical, Chemical, Biotic, and Climatic Perturbations. Ecosystems, 2002, 5, 0648-0658.	1.6	178
23	Regional Assessment of N Saturation using Foliar and Root $\delta^{15}\text{N}$. Biogeochemistry, 2006, 80, 143-171.	1.7	172
24	Ecological effects of nitrogen and sulfur air pollution in the US: what do we know?. Frontiers in Ecology and the Environment, 2012, 10, 365-372.	1.9	157
25	Mapping monthly precipitation, temperature, and solar radiation for Ireland with polynomial regression and a digital elevation model. Climate Research, 1998, 10, 35-49.	0.4	138
26	Do Nutrient Limitation Patterns Shift from Nitrogen Toward Phosphorus with Increasing Nitrogen Deposition Across the Northeastern United States?. Ecosystems, 2012, 15, 940-957.	1.6	128
27	An Unexpected Nitrate Decline in New Hampshire Streams. Ecosystems, 2003, 6, 0075-0086.	1.6	127
28	Does elevated nitrogen deposition or ecosystem recovery from acidification drive increased dissolved organic carbon loss from upland soil? A review of evidence from field nitrogen addition experiments. Biogeochemistry, 2008, 91, 13-35.	1.7	126
29	Climate change impacts of US reactive nitrogen. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7671-7675.	3.3	126
30	Long-Term Integrated Studies Show Complex and Surprising Effects of Climate Change in the Northern Hardwood Forest. BioScience, 2012, 62, 1056-1066.	2.2	117
31	Global patterns of nitrogen limitation: confronting two global biogeochemical models with observations. Global Change Biology, 2013, 19, 2986-2998.	4.2	117
32	Aerosol Deposition Impacts on Land and Ocean Carbon Cycles. Current Climate Change Reports, 2017, 3, 16-31.	2.8	103
33	Effects of climate warming on carbon fluxes in grasslands—A global meta-analysis. Global Change Biology, 2019, 25, 1839-1851.	4.2	103
34	Projections of leaf area index in earth system models. Earth System Dynamics, 2016, 7, 211-229.	2.7	96
35	Air pollution success stories in the United States: The value of long-term observations. Environmental Science and Policy, 2018, 84, 69-73.	2.4	91
36	Long-term Decreases in Stream Nitrate: Successional Causes Unlikely; Possible Links to DOC?. Ecosystems, 2005, 8, 334-337.	1.6	89

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37	Insights into mechanisms governing forest carbon response to nitrogen deposition: a modelâ€‘data comparison using observed responses to nitrogen addition. <i>Biogeosciences</i> , 2013, 10, 3869-3887.	1.3	83
38	Evidence that Soil Carbon Pool Determines Susceptibility of Semi-Natural Ecosystems to Elevated Nitrogen Leaching. <i>Ecosystems</i> , 2006, 9, 453-462.	1.6	71
39	Unusual seasonal patterns and inferred processes of nitrogen retention in forested headwaters of the Upper Susquehanna River. <i>Biogeochemistry</i> , 2009, 93, 197-218.	1.7	70
40	Nitrogen addition alters mineralization dynamics of ¹³ C-depleted leaf and twig litter and reduces leaching of older DOC from mineral soil. <i>Global Change Biology</i> , 2012, 18, 1412-1427.	4.2	68
41	What Have Stable Isotope Studies Revealed About the Nature and Mechanisms of N Saturation and Nitrate Leaching from Semi-Natural Catchments?. <i>Ecosystems</i> , 2011, 14, 1021-1037.	1.6	67
42	Effects of nitrogen deposition on greenhouse gas fluxes for forests and grasslands of North America. <i>Frontiers in Ecology and the Environment</i> , 2012, 10, 547-553.	1.9	67
43	Uncertain sinks in the shrubs. <i>Nature</i> , 2002, 418, 593-594.	13.7	64
44	Beyond Static Benchmarking: Using Experimental Manipulations to Evaluate Land Model Assumptions. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1289-1309.	1.9	59
45	Isotopic signals of summer denitrification in a northern hardwood forested catchment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16413-16418.	3.3	58
46	Potential effects of climate change and rising CO ₂ on ecosystem processes in northeastern U.S. forests. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2008, 13, 467-485.	1.0	55
47	Title is missing!. <i>Biogeochemistry</i> , 2002, 57, 239-266.	1.7	50
48	Forest liming increases forest floor carbon and nitrogen stocks in a mixed hardwood forest. <i>Ecological Applications</i> , 2013, 23, 1962-1975.	1.8	41
49	Nutrient retention during ecosystem succession: a revised conceptual model. <i>Frontiers in Ecology and the Environment</i> , 2018, 16, 532-538.	1.9	41
50	Multiyear fate of a ¹⁵ N tracer in a mixed deciduous forest: retention, redistribution, and differences by mycorrhizal association. <i>Global Change Biology</i> , 2017, 23, 867-880.	4.2	38
51	Unprocessed Atmospheric Nitrate in Waters of the Northern Forest Region in the U.S. and Canada. <i>Environmental Science & Technology</i> , 2019, 53, 3620-3633.	4.6	34
52	Nutrient Leaching and Greenhouse Gas Emissions in Grassed Detention and Bioretention Stormwater Basins. <i>Journal of Sustainable Water in the Built Environment</i> , 2018, 4, .	0.9	33
53	The effect of nitrogen addition on soil organic matter dynamics: a model analysis of the Harvard Forest Chronic Nitrogen Amendment Study and soil carbon response to anthropogenic N deposition. <i>Biogeochemistry</i> , 2014, 117, 431-454.	1.7	32
54	Soil processes drive seasonal variation in retention of ¹⁵ N tracers in a deciduous forest catchment. <i>Ecology</i> , 2015, 96, 2653-2668.	1.5	30

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55	Depth patterns and connections between gross nitrogen cycling and soil exoenzyme activities in three northern hardwood forests. <i>Soil Biology and Biochemistry</i> , 2020, 147, 107836.	4.2	28
56	Revisiting Soil Carbon and Nitrogen Sampling. <i>Soil Science</i> , 2011, 176, 273-279.	0.9	27
57	Hydrologic and Biogeochemical Drivers of Riparian Denitrification in an Agricultural Watershed. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	1.1	24
58	Complex controls of denitrification at ecosystem, landscape and regional scales in northern hardwood forests. <i>Ecological Modelling</i> , 2015, 298, 39-52.	1.2	24
59	Assessing denitrification from seasonally saturated soils in an agricultural landscape: A farm-scale mass-balance approach. <i>Agriculture, Ecosystems and Environment</i> , 2014, 189, 60-69.	2.5	23
60	Lability of C in temperate forest soils: Assessing the role of nitrogen addition and tree species composition. <i>Soil Biology and Biochemistry</i> , 2014, 77, 129-140.	4.2	21
61	The soil and plant biogeochemistry sampling design for The National Ecological Observatory Network. <i>Ecosphere</i> , 2016, 7, e01234.	1.0	21
62	Searching for biogeochemical hot spots in three dimensions: Soil C and N cycling in hydrogeologic settings in a northern hardwood forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1596-1607.	1.3	20
63	NITROGEN POLLUTION: Sources and Consequences in the U.S. Northeast. <i>Environment</i> , 2003, 45, 8-22.	0.8	18
64	Retention of Nitrate-N in Mineral Soil Organic Matter in Different Forest Age Classes. <i>Ecosystems</i> , 2019, 22, 1280-1294.	1.6	18
65	Predicting the relative sensitivity of forest production in Ireland to site quality and climate change. <i>Climate Research</i> , 1998, 10, 51-67.	0.4	17
66	What goes up must come down: impacts of deposition in a sulfate geoengineering scenario. <i>Environmental Research Letters</i> , 2020, 15, 094063.	2.2	15
67	Tree species and earthworm effects on soil nutrient distribution and turnover in a northeastern United States common garden. <i>Canadian Journal of Forest Research</i> , 2013, 43, 180-187.	0.8	14
68	Assessing the Suitability of Rotary Coring for Sampling in Rocky Soils. <i>Soil Science Society of America Journal</i> , 2012, 76, 1707-1718.	1.2	11
69	Microbial community shifts correspond with suppression of decomposition 25 years after liming of acidic forest soils. <i>Global Change Biology</i> , 2022, 28, 5399-5415.	4.2	11
70	Decadal fates and impacts of nitrogen additions on temperate forest carbon storage: a data-model comparison. <i>Biogeosciences</i> , 2019, 16, 2771-2793.	1.3	10
71	Watershed-scale liming reveals the short- and long-term effects of pH on the forest soil microbiome and carbon cycling. <i>Environmental Microbiology</i> , 2022, 24, 6184-6199.	1.8	10
72	Dissolved and gaseous nitrogen losses in forests controlled by soil nutrient stoichiometry. <i>Environmental Research Letters</i> , 2021, 16, 064025.	2.2	9

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73	Hotspots of Nitrous Oxide Emission in Fertilized and Unfertilized Perennial Grasses. Soil Science Society of America Journal, 2017, 81, 450-458.	1.2	7
74	Climate Change Can Accelerate Depletion of Montane Grassland C Stocks. Global Biogeochemical Cycles, 2021, 35, e2020GB006792.	1.9	7
75	Nitrification, denitrification, and competition for soil N: Evaluation of two Earth System Models against observations. Ecological Applications, 2022, 32, e2528.	1.8	6
76	Special issue on nitrogen deposition, critical loads, and biodiversity. Environmental Pollution, 2011, 159, 2211-2213.	3.7	5
77	Nitrogen Deposition Effects on Ecosystem Services and Interactions with other Pollutants and Climate Change. , 2014, , 493-505.		5
78	Impacts of Nitrogen Deposition on Ecosystem Services in Interaction with Other Nutrients, Air Pollutants and Climate Change. , 2014, , 387-396.		5
79	Effects and Empirical Critical Loads of Nitrogen for Ecoregions of the United States. Environmental Pollution, 2015, , 129-169.	0.4	3
80	Nitrification and denitrification in the Community Land Model compared to observations at Hubbard Brook Forest. Ecological Applications, 2022, , e2530.	1.8	3
81	Fertilizer: complex issue calls for informed debate. Nature, 2004, 427, 99-99.	13.7	0
82	Contrasting fates of nitrate between organic and iron oxide-rich horizons of an acidic forest soil under oxic and suboxic conditions. Soil Biology and Biochemistry, 2021, 157, 108237.	4.2	0
83	Forest nitrogen sinks in large eastern U.S. watersheds: estimates from forest inventory and an ecosystem model. , 2002, , 239-266.		0