Christine L Goodale

List of Publications by Year
in descending order

83 papers	11,742 citations	61984 43 h-index	76900 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. Nature, 2001, 414, 169-172.	27.8	1,162
2	Consistent Land- and Atmosphere-Based U.S. Carbon Sink Estimates. Science, 2001, 292, 2316-2320.	12.6	746
3	FOREST CARBON SINKS IN THE NORTHERN HEMISPHERE. , 2002, 12, 891-899.		696
4	Fate of soilâ€applied black carbon: downward migration, leaching and soil respiration. Global Change Biology, 2010, 16, 1366-1379.	9.5	610
5	Increased tree carbon storage in response to nitrogen deposition in the US. Nature Geoscience, 2010, 3, 13-17.	12.9	582
6	Is Nitrogen Deposition Altering the Nitrogen Status of Northeastern Forests?. BioScience, 2003, 53, 375.	4.9	544
7	Title is missing!. Biogeochemistry, 2002, 57, 137-169.	3.5	516
8	Title is missing!. Biogeochemistry, 2002, 57, 171-197.	3.5	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. BioScience, 2003, 53, 357.	4.9	335
11	Chronic nitrogen additions suppress decomposition and sequester soil carbon in temperate forests. Biogeochemistry, 2014, 121, 305-316.	3.5	302
12	Title is missing!. Biogeochemistry, 2002, 57, 267-293.	3.5	298
13	Key ecological responses to nitrogen are altered by climate change. Nature Climate Change, 2016, 6, 836-843.	18.8	261
14	Soil Carbon Dynamics after Forest Harvest: An Ecosystem Paradigm Reconsidered. Ecosystems, 2003, 6, 197-212.	3.4	251
15	Forest carbon storage: ecology, management, and policy. Frontiers in Ecology and the Environment, 2010, 8, 245-252.	4.0	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. Ecosystems, 2011, 14, 615-631.	3.4	218
18	Temperature sensitivity of soil enzyme kinetics under<scp><scp>N</scp></scp>â€fertilization in two temperate forests. Global Change Biology, 2012, 18, 1173-1184.	9.5	215

#	Article	IF	Citations
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 metaâ€anal ysis of ¹⁵N tracer field studies. Ecology, 2012, 93, 1816-1829.	3.2	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.	3.4	185
22	Inorganic Nitrogen Losses from a Forested Ecosystem in Responseto Physical, Chemical, Biotic,and Climatic Perturbations. Ecosystems, 2002, 5, 0648-0658.	3.4	178
23	Regional Assessment of N Saturation using Foliar and Root $$varvec {delta}^{f 15}{f N}$$. Biogeochemistry, 2006, 80, 143-171.	3.5	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.	4.0	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.	1.1	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.	3.4	128
27	An Unexpected Nitrate Decline in New Hampshire Streams. Ecosystems, 2003, 6, 0075-0086.	3.4	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.	3.5	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.	7.1	126
30	Long-Term Integrated Studies Show Complex and Surprising Effects of Climate Change in the Northern Hardwood Forest. BioScience, 2012, 62, 1056-1066.	4.9	117
31	Global patterns of nitrogen limitation: confronting two global biogeochemical models with observations. Global Change Biology, 2013, 19, 2986-2998.	9.5	117
32	Aerosol Deposition Impacts on Land and Ocean Carbon Cycles. Current Climate Change Reports, 2017, 3, 16-31.	8.6	103
33	Effects of climate warming on carbon fluxes in grasslandsâ€”ÂA global metaâ€anal ysis. Global Change Biology, 2019, 25, 1839-1851.	9.5	103
34	Projections of leaf area index in earth system models. Earth System Dynamics, 2016, 7, 211-229.	7.1	96
35	Air pollution success stories in the United States: The value of long-term observations. Environmental Science and Policy, 2018, 84, 69-73.	4.9	91
36	Long-term Decreases in Stream Nitrate: Successional Causes Unlikely; Possible Links to DOC?. Ecosystems, 2005, 8, 334-337.	3.4	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. Biogeosciences, 2013, 10, 3869-3887.	3.3	83
38	Evidence that Soil Carbon Pool Determines Susceptibility of Semi-Natural Ecosystems to Elevated Nitrogen Leaching. Ecosystems, 2006, 9, 453-462.	3.4	71
39	Unusual seasonal patterns and inferred processes of nitrogen retention in forested headwaters of the Upper Susquehanna River. Biogeochemistry, 2009, 93, 197-218.	3.5	70
40	Nitrogen addition alters mineralization dynamics of ¹³<scp><scp>C</scp></scp>â€depleted leaf and twig litter and reduces leaching of older <scp>DOC</scp> from mineral soil. Global Change Biology, 2012, 18, 1412-1427.	9.5	68
41	What Have Stable Isotope Studies Revealed About the Nature and Mechanisms of N Saturation and Nitrate Leaching from Semi-Natural Catchments?. Ecosystems, 2011, 14, 1021-1037.	3.4	67
42	Effects of nitrogen deposition on greenhouseâ€gas fluxes for forests and grasslands of North America. Frontiers in Ecology and the Environment, 2012, 10, 547-553.	4.0	67
43	Uncertain sinks in the shrubs. Nature, 2002, 418, 593-594.	27.8	64
44	Beyond Static Benchmarking: Using Experimental Manipulations to Evaluate Land Model Assumptions. Global Biogeochemical Cycles, 2019, 33, 1289-1309.	4.9	59
45	Isotopic signals of summer denitrification in a northern hardwood forested catchment. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16413-16418.	7.1	58
46	Potential effects of climate change and rising CO2 on ecosystem processes in northeastern U.S. forests. Mitigation and Adaptation Strategies for Global Change, 2008, 13, 467-485.	2.1	55
47	Title is missing!. Biogeochemistry, 2002, 57, 239-266.	3.5	50
48	Forest liming increases forest floor carbon and nitrogen stocks in a mixed hardwood forest. Ecological Applications, 2013, 23, 1962-1975.	3.8	41
49	Nutrient retention during ecosystem succession: a revised conceptual model. Frontiers in Ecology and the Environment, 2018, 16, 532-538.	4.0	41
50	Multiyear fate of a ¹⁵N tracer in a mixed deciduous forest: retention, redistribution, and differences by mycorrhizal association. Global Change Biology, 2017, 23, 867-880.	9.5	38
51	Unprocessed Atmospheric Nitrate in Waters of the Northern Forest Region in the U.S. and Canada. Environmental Science & Technology, 2019, 53, 3620-3633.	10.0	34
52	Nutrient Leaching and Greenhouse Gas Emissions in Grassed Detention and Bioretention Stormwater Basins. Journal of Sustainable Water in the Built Environment, 2018, 4, .	1.6	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. Biogeochemistry, 2014, 117, 431-454.	3.5	32
54	Soil processes drive seasonal variation in retention of ¹⁵N tracers in a deciduous forest catchment. Ecology, 2015, 96, 2653-2668.	3.2	30

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55	Depth patterns and connections between gross nitrogen cycling and soil exoenzyme activities in three northern hardwood forests. Soil Biology and Biochemistry, 2020, 147, 107836.	8.8	28
56	Revisiting Soil Carbon and Nitrogen Sampling. Soil Science, 2011, 176, 273-279.	0.9	27
57	Hydrologic and Biogeochemical Drivers of Riparian Denitrification in an Agricultural Watershed. Water, Air, and Soil Pollution, 2015, 226, 1.	2.4	24
58	Complex controls of denitrification at ecosystem, landscape and regional scales in northern hardwood forests. Ecological Modelling, 2015, 298, 39-52.	2.5	24
59	Assessing denitrification from seasonally saturated soils in an agricultural landscape: A farm-scale mass-balance approach. Agriculture, Ecosystems and Environment, 2014, 189, 60-69.	5.3	23
60	Lability of C in temperate forest soils: Assessing the role of nitrogen addition and tree species composition. Soil Biology and Biochemistry, 2014, 77, 129-140.	8.8	21
61	The soil and plant biogeochemistry sampling design for The National Ecological Observatory Network. Ecosphere, 2016, 7, e01234.	2.2	21
62	Searching for biogeochemical hot spots in three dimensions: Soil C and N cycling in hydropedologic settings in a northern hardwood forest. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1596-1607.	3.0	20
63	NITROGEN POLLUTION: Sources and Consequences in the U.S. Northeast. Environment, 2003, 45, 8-22.	1.4	18
64	Retention of Nitrate-N in Mineral Soil Organic Matter in Different Forest Age Classes. Ecosystems, 2019, 22, 1280-1294.	3.4	18
65	Predicting the relative sensitivity of forest production in Ireland to site quality and climate change. Climate Research, 1998, 10, 51-67.	1.1	17
66	What goes up must come down: impacts of deposition in a sulfate geoengineering scenario. Environmental Research Letters, 2020, 15, 094063.	5.2	15
67	Tree species and earthworm effects on soil nutrient distribution and turnover in a northeastern United States common garden. Canadian Journal of Forest Research, 2013, 43, 180-187.	1.7	14
68	Assessing the Suitability of Rotary Coring for Sampling in Rocky Soils. Soil Science Society of America Journal, 2012, 76, 1707-1718.	2.2	11
69	Microbial community shifts correspond with suppression of decomposition 25 years after liming of acidic forest soils. Global Change Biology, 2022, 28, 5399-5415.	9.5	11
70	Decadal fates and impacts of nitrogen additions on temperate forest carbon storage: a dataâ€“model comparison. Biogeosciences, 2019, 16, 2771-2793.	3.3	10
71	Watershedâ€scale liming reveals the shortâ€and longâ€term effects of<scp>pH</scp>on the forest soil microbiome and carbon cycling. Environmental Microbiology, 2022, 24, 6184-6199.	3.8	10
72	Dissolved and gaseous nitrogen losses in forests controlled by soil nutrient stoichiometry. Environmental Research Letters, 2021, 16, 064025.	5.2	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.	2.2	7
74	Climate Change Can Accelerate Depletion of Montane Grassland C Stocks. Global Biogeochemical Cycles, 2021, 35, e2020GB006792.	4.9	7
75	Nitrification, denitrification, and competition for soil<scp>N</scp>: Evaluation of two<scp>Earth System Models</scp>against observations. Ecological Applications, 2022, 32, e2528.	3.8	6
76	Special issue on nitrogen deposition, critical loads, and biodiversity. Environmental Pollution, 2011, 159, 2211-2213.	7.5	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.	3.8	3
81	Fertilizer: complex issue calls for informed debate. Nature, 2004, 427, 99-99.	27.8	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.	8.8	0
83	Forest nitrogen sinks in large eastern U.S. watersheds: estimates from forest inventory and an ecosystem model. , 2002, , 239-266.		0