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	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
2	Nitrification and denitrification in the Community Land Model compared to observations at Hubbard Brook Forest. Ecological Applications, 2022, , e2530.	3.8	3
3	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
4	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
5	Dissolved and gaseous nitrogen losses in forests controlled by soil nutrient stoichiometry. Environmental Research Letters, 2021, 16, 064025.	5.2	9
6	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
7	Climate Change Can Accelerate Depletion of Montane Grassland C Stocks. Global Biogeochemical Cycles, 2021, 35, e2020GB006792.	4.9	7
8	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
9	What goes up must come down: impacts of deposition in a sulfate geoengineering scenario. Environmental Research Letters, 2020, 15, 094063.	5.2	15
10	Beyond Static Benchmarking: Using Experimental Manipulations to Evaluate Land Model Assumptions. Global Biogeochemical Cycles, 2019, 33, 1289-1309.	4.9	59
11	Decadal fates and impacts of nitrogen additions on temperate forest carbon storage: a dataâ€“model comparison. Biogeosciences, 2019, 16, 2771-2793.	3.3	10
12	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
13	Effects of climate warming on carbon fluxes in grasslandsâ€”ÂA global metaâ€analysis. Global Change Biology, 2019, 25, 1839-1851.	9.5	103
14	Retention of Nitrate-N in Mineral Soil Organic Matter in Different Forest Age Classes. Ecosystems, 2019, 22, 1280-1294.	3.4	18
15	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
16	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
17	Nutrient retention during ecosystem succession: a revised conceptual model. Frontiers in Ecology and the Environment, 2018, 16, 532-538.	4.0	41
18	Aerosol Deposition Impacts on Land and Ocean Carbon Cycles. Current Climate Change Reports, 2017, 3, 16-31.	8.6	103

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19	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
20	Hotspots of Nitrous Oxide Emission in Fertilized and Unfertilized Perennial Grasses. Soil Science Society of America Journal, 2017, 81, 450-458.	2.2	7
21	Projections of leaf area index in earth system models. Earth System Dynamics, 2016, 7, 211-229.	7.1	96
22	Key ecological responses to nitrogen are altered by climate change. Nature Climate Change, 2016, 6, 836-843.	18.8	261
23	The soil and plant biogeochemistry sampling design for The National Ecological Observatory Network. Ecosphere, 2016, 7, e01234.	2.2	21
24	Hydrologic and Biogeochemical Drivers of Riparian Denitrification in an Agricultural Watershed. Water, Air, and Soil Pollution, 2015, 226, 1.	2.4	24
25	Soil processes drive seasonal variation in retention of ¹⁵N tracers in a deciduous forest catchment. Ecology, 2015, 96, 2653-2668.	3.2	30
26	Complex controls of denitrification at ecosystem, landscape and regional scales in northern hardwood forests. Ecological Modelling, 2015, 298, 39-52.	2.5	24
27	Effects and Empirical Critical Loads of Nitrogen for Ecoregions of the United States. Environmental Pollution, 2015, , 129-169.	0.4	3
28	Nitrogen Deposition Effects on Ecosystem Services and Interactions with other Pollutants and Climate Change. , 2014, , 493-505.		5
29	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
30	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
31	Chronic nitrogen additions suppress decomposition and sequester soil carbon in temperate forests. Biogeochemistry, 2014, 121, 305-316.	3.5	302
32	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
33	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
34	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
35	Impacts of Nitrogen Deposition on Ecosystem Services in Interaction with Other Nutrients, Air Pollutants and Climate Change. , 2014, , 387-396.		5
36	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

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37	Global patterns of nitrogen limitation: confronting two global biogeochemical models with observations. Global Change Biology, 2013, 19, 2986-2998.	9.5	117
38	Forest liming increases forest floor carbon and nitrogen stocks in a mixed hardwood forest. Ecological Applications, 2013, 23, 1962-1975.	3.8	41
39	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
40	Assessing the Suitability of Rotary Coring for Sampling in Rocky Soils. Soil Science Society of America Journal, 2012, 76, 1707-1718.	2.2	11
41	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
42	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
43	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
44	Sinks for nitrogen inputs in terrestrial ecosystems: a metaâ€analysis of ¹⁵N tracer field studies. Ecology, 2012, 93, 1816-1829.	3.2	192
45	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
46	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
47	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
48	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
49	Revisiting Soil Carbon and Nitrogen Sampling. Soil Science, 2011, 176, 273-279.	0.9	27
50	Special issue on nitrogen deposition, critical loads, and biodiversity. Environmental Pollution, 2011, 159, 2211-2213.	7.5	5
51	A New Conceptual Model of Nitrogen Saturation Based on Experimental Nitrogen Addition to an Oak Forest. Ecosystems, 2011, 14, 615-631.	3.4	218
52	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
53	Effects of nitrogen deposition and empirical nitrogen critical loads for ecoregions of the United States. , 2011, 21, 3049-3082.		373
54	Fate of soilâ€applied black carbon: downward migration, leaching and soil respiration. Global Change Biology, 2010, 16, 1366-1379.	9.5	610

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55	Increased tree carbon storage in response to nitrogen deposition in the US. Nature Geoscience, 2010, 3, 13-17.	12.9	582
56	Forest carbon storage: ecology, management, and policy. Frontiers in Ecology and the Environment, 2010, 8, 245-252.	4.0	237
57	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
58	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
59	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
60	Regional Assessment of N Saturation using Foliar and Root $$varvec {delta}^{f 15}{f N}$$. Biogeochemistry, 2006, 80, 143-171.	3.5	172
61	Evidence that Soil Carbon Pool Determines Susceptibility of Semi-Natural Ecosystems to Elevated Nitrogen Leaching. Ecosystems, 2006, 9, 453-462.	3.4	71
62	Long-term Decreases in Stream Nitrate: Successional Causes Unlikely; Possible Links to DOC?. Ecosystems, 2005, 8, 334-337.	3.4	89
63	Fertilizer: complex issue calls for informed debate. Nature, 2004, 427, 99-99.	27.8	0
64	Soil Carbon Dynamics after Forest Harvest: An Ecosystem Paradigm Reconsidered. Ecosystems, 2003, 6, 197-212.	3.4	251
65	An Unexpected Nitrate Decline in New Hampshire Streams. Ecosystems, 2003, 6, 0075-0086.	3.4	127
66	Is Nitrogen Deposition Altering the Nitrogen Status of Northeastern Forests?. BioScience, 2003, 53, 375.	4.9	544
67	NITROGEN POLLUTION: Sources and Consequences in the U.S. Northeast. Environment, 2003, 45, 8-22.	1.4	18
68	Nitrogen Pollution in the Northeastern United States: Sources, Effects, and Management Options. BioScience, 2003, 53, 357.	4.9	335
69	FOREST CARBON SINKS IN THE NORTHERN HEMISPHERE. , 2002, 12, 891-899.		696
70	DIRECT ESTIMATION OF ABOVEGROUND FOREST PRODUCTIVITY THROUGH HYPERSPECTRAL REMOTE SENSING OF CANOPY NITROGEN. , 2002, 12, 1286-1302.		203
71	Inorganic Nitrogen Losses from a Forested Ecosystem in Responseto Physical, Chemical, Biotic,and Climatic Perturbations. Ecosystems, 2002, 5, 0648-0658.	3.4	178
72	Uncertain sinks in the shrubs. Nature, 2002, 418, 593-594.	27.8	64

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73	Title is missing!. Biogeochemistry, 2002, 57, 137-169.	3.5	516
74	Title is missing!. Biogeochemistry, 2002, 57, 171-197.	3.5	396
75	Title is missing!. Biogeochemistry, 2002, 57, 267-293.	3.5	298
76	Title is missing!. Biogeochemistry, 2002, 57, 239-266.	3.5	50
77	Forest nitrogen sinks in large eastern U.S. watersheds: estimates from forest inventory and an ecosystem model. , 2002, , 239-266.		0
78	Recent patterns and mechanisms of carbon exchange by terrestrial ecosystems. Nature, 2001, 414, 169-172.	27.8	1,162
79	Consistent Land- and Atmosphere-Based U.S. Carbon Sink Estimates. Science, 2001, 292, 2316-2320.	12.6	746
80	THE LONG-TERM EFFECTS OF LAND-USE HISTORY ON NITROGEN CYCLING IN NORTHERN HARDWOOD FORESTS. , 2001, 11, 253-267.		226
81	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
82	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
83	Predicting the relative sensitivity of forest production in Ireland to site quality and climate change. Climate Research, 1998, 10, 51-67.	1.1	17