

# Christine L Goodale

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81  
papers

9,767  
citations

45  
h-index

87  
g-index

87  
ext. papers

10,684  
ext. citations

7.8  
avg, IF

5.78  
L-index

#	Paper	IF	Citations
81	Recent patterns and mechanisms of carbon exchange by terrestrial ecosystems. <i>Nature</i> , <b>2001</b> , 414, 169-172	52.4	1018
80	Consistent land- and atmosphere-based U.S. carbon sink estimates. <i>Science</i> , <b>2001</b> , 292, 2316-20	33.3	676
79	FOREST CARBON SINKS IN THE NORTHERN HEMISPHERE <b>2002</b> , 12, 891-899		578
78	Fate of soil-applied black carbon: downward migration, leaching and soil respiration. <i>Global Change Biology</i> , <b>2010</b> , 16, 1366-1379	11.4	515
77	Is Nitrogen Deposition Altering the Nitrogen Status of Northeastern Forests?. <i>BioScience</i> , <b>2003</b> , 53, 375	5.7	491
76	Increased tree carbon storage in response to nitrogen deposition in the US. <i>Nature Geoscience</i> , <b>2010</b> , 3, 13-17	18.3	480
75	Anthropogenic nitrogen sources and relationships to riverine nitrogen export in the northeastern U.S.A.. <i>Biogeochemistry</i> , <b>2002</b> , 57, 137-169	3.8	461
74	Sources of nitrate in rivers draining sixteen watersheds in the northeastern U.S.: Isotopic constraints. <i>Biogeochemistry</i> , <b>2002</b> , 57, 171-197	3.8	325
73	Effects of nitrogen deposition and empirical nitrogen critical loads for ecoregions of the United States <b>2011</b> , 21, 3049-3082		305
72	Nitrogen Pollution in the Northeastern United States: Sources, Effects, and Management Options. <i>BioScience</i> , <b>2003</b> , 53, 357	5.7	300
71	Where did all the nitrogen go? Fate of nitrogen inputs to large watersheds in the northeastern U.S.A.. <i>Biogeochemistry</i> , <b>2002</b> , 57, 267-293	3.8	250
70	Soil Carbon Dynamics after Forest Harvest: An Ecosystem Paradigm Reconsidered. <i>Ecosystems</i> , <b>2003</b> , 6, 197-212	3.9	222
69	Chronic nitrogen additions suppress decomposition and sequester soil carbon in temperate forests. <i>Biogeochemistry</i> , <b>2014</b> , 121, 305-316	3.8	221
68	THE LONG-TERM EFFECTS OF LAND-USE HISTORY ON NITROGEN CYCLING IN NORTHERN HARDWOOD FORESTS <b>2001</b> , 11, 253-267		199
67	A New Conceptual Model of Nitrogen Saturation Based on Experimental Nitrogen Addition to an Oak Forest. <i>Ecosystems</i> , <b>2011</b> , 14, 615-631	3.9	181
66	Forest carbon storage: ecology, management, and policy. <i>Frontiers in Ecology and the Environment</i> , <b>2010</b> , 8, 245-252	5.5	176
65	Temperature sensitivity of soil enzyme kinetics under N-fertilization in two temperate forests. <i>Global Change Biology</i> , <b>2012</b> , 18, 1173-1184	11.4	174

64	DIRECT ESTIMATION OF ABOVEGROUND FOREST PRODUCTIVITY THROUGH HYPERSPECTRAL REMOTE SENSING OF CANOPY NITROGEN <b>2002</b> , 12, 1286-1302		167
63	Sinks for nitrogen inputs in terrestrial ecosystems: a meta-analysis of 15N tracer field studies. <i>Ecology</i> , <b>2012</b> , 93, 1816-29	4.6	162
62	The Long-term Effects of Disturbance on Organic and Inorganic Nitrogen Export in the White Mountains, New Hampshire. <i>Ecosystems</i> , <b>2000</b> , 3, 433-450	3.9	162
61	Key ecological responses to nitrogen are altered by climate change. <i>Nature Climate Change</i> , <b>2016</b> , 6, 836-843	21.4	159
60	Inorganic Nitrogen Losses from a Forested Ecosystem in Response to Physical, Chemical, Biotic, and Climatic Perturbations. <i>Ecosystems</i> , <b>2002</b> , 5, 0648-0658	3.9	159
59	Regional Assessment of N Saturation using Foliar and Root ( $\delta^{15}\text{N}$ ). <i>Biogeochemistry</i> , <b>2006</b> , 80, 143-171	3.8	156
58	Ecological effects of nitrogen and sulfur air pollution in the US: what do we know?. <i>Frontiers in Ecology and the Environment</i> , <b>2012</b> , 10, 365-372	5.5	132
57	An Unexpected Nitrate Decline in New Hampshire Streams. <i>Ecosystems</i> , <b>2003</b> , 6, 0075-0086	3.9	122
56	Mapping monthly precipitation, temperature, and solar radiation for Ireland with polynomial regression and a digital elevation model. <i>Climate Research</i> , <b>1998</b> , 10, 35-49	1.6	117
55	Do Nutrient Limitation Patterns Shift from Nitrogen Toward Phosphorus with Increasing Nitrogen Deposition Across the Northeastern United States?. <i>Ecosystems</i> , <b>2012</b> , 15, 940-957	3.9	114
54	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. <i>Biogeochemistry</i> , <b>2008</b> , 91, 13-35	3.8	108
53	Climate change impacts of US reactive nitrogen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 7671-5	11.5	102
52	Long-Term Integrated Studies Show Complex and Surprising Effects of Climate Change in the Northern Hardwood Forest. <i>BioScience</i> , <b>2012</b> , 62, 1056-1066	5.7	101
51	Global patterns of nitrogen limitation: confronting two global biogeochemical models with observations. <i>Global Change Biology</i> , <b>2013</b> , 19, 2986-98	11.4	98
50	Long-term Decreases in Stream Nitrate: Successional Causes Unlikely; Possible Links to DOC?. <i>Ecosystems</i> , <b>2005</b> , 8, 334-337	3.9	82
49	Insights into mechanisms governing forest carbon response to nitrogen deposition: a model-data comparison using observed responses to nitrogen addition. <i>Biogeosciences</i> , <b>2013</b> , 10, 3869-3887	4.6	70
48	Evidence that Soil Carbon Pool Determines Susceptibility of Semi-Natural Ecosystems to Elevated Nitrogen Leaching. <i>Ecosystems</i> , <b>2006</b> , 9, 453-462	3.9	66
47	Projections of leaf area index in earth system models. <i>Earth System Dynamics</i> , <b>2016</b> , 7, 211-229	4.8	65

46	Aerosol Deposition Impacts on Land and Ocean Carbon Cycles. <i>Current Climate Change Reports</i> , <b>2017</b> , 3, 16-31	9	64
45	Air pollution success stories in the United States: The value of long-term observations. <i>Environmental Science and Policy</i> , <b>2018</b> , 84, 69-73	6.2	64
44	Unusual seasonal patterns and inferred processes of nitrogen retention in forested headwaters of the Upper Susquehanna River. <i>Biogeochemistry</i> , <b>2009</b> , 93, 197-218	3.8	62
43	What Have Stable Isotope Studies Revealed About the Nature and Mechanisms of N Saturation and Nitrate Leaching from Semi-Natural Catchments?. <i>Ecosystems</i> , <b>2011</b> , 14, 1021-1037	3.9	58
42	Effects of nitrogen deposition on greenhouse-gas fluxes for forests and grasslands of North America. <i>Frontiers in Ecology and the Environment</i> , <b>2012</b> , 10, 547-553	5.5	55
41	Nitrogen addition alters mineralization dynamics of <sup>13</sup> C-depleted leaf and twig litter and reduces leaching of older DOC from mineral soil. <i>Global Change Biology</i> , <b>2012</b> , 18, 1412-1427	11.4	50
40	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> , <b>2014</b> , 111, 16413-8	11.5	48
39	Effects of climate warming on carbon fluxes in grasslands—A global meta-analysis. <i>Global Change Biology</i> , <b>2019</b> , 25, 1839-1851	11.4	47
38	Potential effects of climate change and rising CO <sub>2</sub> on ecosystem processes in northeastern U.S. forests. <i>Mitigation and Adaptation Strategies for Global Change</i> , <b>2008</b> , 13, 467-485	3.9	47
37	Forest nitrogen sinks in large eastern U.S. watersheds: estimates from forest inventory and an ecosystem model. <i>Biogeochemistry</i> , <b>2002</b> , 57, 239-266	3.8	44
36	Beyond Static Benchmarking: Using Experimental Manipulations to Evaluate Land Model Assumptions. <i>Global Biogeochemical Cycles</i> , <b>2019</b> , 33, 1289-1309	5.9	35
35	Forest liming increases forest floor carbon and nitrogen stocks in a mixed hardwood forest <b>2013</b> , 23, 1962-75		30
34	Nutrient retention during ecosystem succession: a revised conceptual model. <i>Frontiers in Ecology and the Environment</i> , <b>2018</b> , 16, 532-538	5.5	30
33	Multiyear fate of a N tracer in a mixed deciduous forest: retention, redistribution, and differences by mycorrhizal association. <i>Global Change Biology</i> , <b>2017</b> , 23, 867-880	11.4	26
32	Revisiting Soil Carbon and Nitrogen Sampling. <i>Soil Science</i> , <b>2011</b> , 176, 273-279	0.9	25
31	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> , <b>2014</b> , 117, 431-454	3.8	24
30	Nutrient Leaching and Greenhouse Gas Emissions in Grassed Detention and Bioretention Stormwater Basins. <i>Journal of Sustainable Water in the Built Environment</i> , <b>2018</b> , 4, 04017014	2.4	23
29	Soil processes drive seasonal variation in retention of <sup>15</sup> N tracers in a deciduous forest catchment. <i>Ecology</i> , <b>2015</b> , 96, 2653-68	4.6	22

28	Complex controls of denitrification at ecosystem, landscape and regional scales in northern hardwood forests. <i>Ecological Modelling</i> , <b>2015</b> , 298, 39-52	3	21
27	Hydrologic and Biogeochemical Drivers of Riparian Denitrification in an Agricultural Watershed. <i>Water, Air, and Soil Pollution</i> , <b>2015</b> , 226, 1	2.6	20
26	Unprocessed Atmospheric Nitrate in Waters of the Northern Forest Region in the U.S. and Canada. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 3620-3633	10.3	19
25	Lability of C in temperate forest soils: Assessing the role of nitrogen addition and tree species composition. <i>Soil Biology and Biochemistry</i> , <b>2014</b> , 77, 129-140	7.5	19
24	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> , <b>2014</b> , 119, 1596-1607	3.7	19
23	Assessing denitrification from seasonally saturated soils in an agricultural landscape: A farm-scale mass-balance approach. <i>Agriculture, Ecosystems and Environment</i> , <b>2014</b> , 189, 60-69	5.7	18
22	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> , <b>2013</b> , 43, 180-187	1.9	14
21	Retention of Nitrate-N in Mineral Soil Organic Matter in Different Forest Age Classes. <i>Ecosystems</i> , <b>2019</b> , 22, 1280-1294	3.9	14
20	NITROGEN POLLUTION: Sources and Consequences in the U.S. Northeast. <i>Environment</i> , <b>2003</b> , 45, 8-22	2.8	12
19	The soil and plant biogeochemistry sampling design for The National Ecological Observatory Network. <i>Ecosphere</i> , <b>2016</b> , 7, e01234	3.1	11
18	Predicting the relative sensitivity of forest production in Ireland to site quality and climate change. <i>Climate Research</i> , <b>1998</b> , 10, 51-67	1.6	11
17	Depth patterns and connections between gross nitrogen cycling and soil exoenzyme activities in three northern hardwood forests. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 147, 107836	7.5	10
16	Assessing the Suitability of Rotary Coring for Sampling in Rocky Soils. <i>Soil Science Society of America Journal</i> , <b>2012</b> , 76, 1707-1718	2.5	10
15	Decadal fates and impacts of nitrogen additions on temperate forest carbon storage: a data-model comparison. <i>Biogeosciences</i> , <b>2019</b> , 16, 2771-2793	4.6	6
14	Hotspots of Nitrous Oxide Emission in Fertilized and Unfertilized Perennial Grasses. <i>Soil Science Society of America Journal</i> , <b>2017</b> , 81, 450-458	2.5	6
13	Nitrogen Deposition Effects on Ecosystem Services and Interactions with other Pollutants and Climate Change <b>2014</b> , 493-505		5
12	Impacts of Nitrogen Deposition on Ecosystem Services in Interaction with Other Nutrients, Air Pollutants and Climate Change <b>2014</b> , 387-396		5
11	What goes up must come down: impacts of deposition in a sulfate geoengineering scenario. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 094063	6.2	5

10	Special issue on nitrogen deposition, critical loads, and biodiversity. Introduction. <i>Environmental Pollution</i> , <b>2011</b> , 159, 2211-3	9.3	4
9	Effects and Empirical Critical Loads of Nitrogen for Ecoregions of the United States. <i>Environmental Pollution</i> , <b>2015</b> , 129-169	0	3
8	Decadal impacts of nitrogen additions on temperate forest carbon sinks: A data-model comparison		2
7	Nitrification, denitrification, and competition for soil N: Evaluation of two earth system models against observations.. <i>Ecological Applications</i> , <b>2022</b> , e2528	4.9	1
6	Nitrification and denitrification in the Community Land Model compared to observations at Hubbard Brook Forest.. <i>Ecological Applications</i> , <b>2022</b> , e2530	4.9	1
5	Dissolved and gaseous nitrogen losses in forests controlled by soil nutrient stoichiometry. <i>Environmental Research Letters</i> ,	6.2	1
4	Climate Change Can Accelerate Depletion of Montane Grassland C Stocks. <i>Global Biogeochemical Cycles</i> , <b>2021</b> , 35, e2020GB006792	5.9	1
3	Fertilizer: complex issue calls for informed debate. <i>Nature</i> , <b>2004</b> , 427, 99	50.4	
2	Forest nitrogen sinks in large eastern U.S. watersheds: estimates from forest inventory and an ecosystem model <b>2002</b> , 239-266		
1	Contrasting fates of nitrate between organic and iron oxide-rich horizons of an acidic forest soil under oxic and suboxic conditions. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 157, 108237	7.5	