

Christine L Goodale

List of Publications by Year in Descending Order

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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	Nitrification, denitrification, and competition for soil N: Evaluation of two earth system models against observations.. <i>Ecological Applications</i> , 2022 , e2528	4.9	1
80	Nitrification and denitrification in the Community Land Model compared to observations at Hubbard Brook Forest.. <i>Ecological Applications</i> , 2022 , e2530	4.9	1
79	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> , 2021 , 157, 108237	7.5	
78	Climate Change Can Accelerate Depletion of Montane Grassland C Stocks. <i>Global Biogeochemical Cycles</i> , 2021 , 35, e2020GB006792	5.9	1
77	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	7.5	10
76	What goes up must come down: impacts of deposition in a sulfate geoengineering scenario. <i>Environmental Research Letters</i> , 2020 , 15, 094063	6.2	5
75	Decadal fates and impacts of nitrogen additions on temperate forest carbon storage: a data-model comparison. <i>Biogeosciences</i> , 2019 , 16, 2771-2793	4.6	6
74	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	10.3	19
73	Effects of climate warming on carbon fluxes in grasslands—A global meta-analysis. <i>Global Change Biology</i> , 2019 , 25, 1839-1851	11.4	47
72	Beyond Static Benchmarking: Using Experimental Manipulations to Evaluate Land Model Assumptions. <i>Global Biogeochemical Cycles</i> , 2019 , 33, 1289-1309	5.9	35
71	Retention of Nitrate-N in Mineral Soil Organic Matter in Different Forest Age Classes. <i>Ecosystems</i> , 2019 , 22, 1280-1294	3.9	14
70	Air pollution success stories in the United States: The value of long-term observations. <i>Environmental Science and Policy</i> , 2018 , 84, 69-73	6.2	64
69	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, 04017014	2.4	23
68	Nutrient retention during ecosystem succession: a revised conceptual model. <i>Frontiers in Ecology and the Environment</i> , 2018 , 16, 532-538	5.5	30
67	Aerosol Deposition Impacts on Land and Ocean Carbon Cycles. <i>Current Climate Change Reports</i> , 2017 , 3, 16-31	9	64
66	Hotspots of Nitrous Oxide Emission in Fertilized and Unfertilized Perennial Grasses. <i>Soil Science Society of America Journal</i> , 2017 , 81, 450-458	2.5	6
65	Multiyear fate of a N tracer in a mixed deciduous forest: retention, redistribution, and differences by mycorrhizal association. <i>Global Change Biology</i> , 2017 , 23, 867-880	11.4	26

64	Key ecological responses to nitrogen are altered by climate change. <i>Nature Climate Change</i> , 2016 , 6, 836-843	21.4	159
63	The soil and plant biogeochemistry sampling design for The National Ecological Observatory Network. <i>Ecosphere</i> , 2016 , 7, e01234	3.1	11
62	Projections of leaf area index in earth system models. <i>Earth System Dynamics</i> , 2016 , 7, 211-229	4.8	65
61	Hydrologic and Biogeochemical Drivers of Riparian Denitrification in an Agricultural Watershed. <i>Water, Air, and Soil Pollution</i> , 2015 , 226, 1	2.6	20
60	Soil processes drive seasonal variation in retention of 15N tracers in a deciduous forest catchment. <i>Ecology</i> , 2015 , 96, 2653-68	4.6	22
59	Complex controls of denitrification at ecosystem, landscape and regional scales in northern hardwood forests. <i>Ecological Modelling</i> , 2015 , 298, 39-52	3	21
58	Effects and Empirical Critical Loads of Nitrogen for Ecoregions of the United States. <i>Environmental Pollution</i> , 2015 , 129-169	0	3
57	Chronic nitrogen additions suppress decomposition and sequester soil carbon in temperate forests. <i>Biogeochemistry</i> , 2014 , 121, 305-316	3.8	221
56	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, 16413-8	11.5	48
55	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	7.5	19
54	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	3.7	19
53	Nitrogen Deposition Effects on Ecosystem Services and Interactions with other Pollutants and Climate Change 2014 , 493-505		5
52	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	3.8	24
51	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	5.7	18
50	Impacts of Nitrogen Deposition on Ecosystem Services in Interaction with Other Nutrients, Air Pollutants and Climate Change 2014 , 387-396		5
49	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	1.9	14
48	Global patterns of nitrogen limitation: confronting two global biogeochemical models with observations. <i>Global Change Biology</i> , 2013 , 19, 2986-98	11.4	98
47	Forest liming increases forest floor carbon and nitrogen stocks in a mixed hardwood forest 2013 , 23, 1962-75		30

46	Insights into mechanisms governing forest carbon response to nitrogen deposition: a model-data comparison using observed responses to nitrogen addition. <i>Biogeosciences</i> , 2013 , 10, 3869-3887	4.6	70
45	Do Nutrient Limitation Patterns Shift from Nitrogen Toward Phosphorus with Increasing Nitrogen Deposition Across the Northeastern United States?. <i>Ecosystems</i> , 2012 , 15, 940-957	3.9	114
44	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	5.5	55
43	Sinks for nitrogen inputs in terrestrial ecosystems: a meta-analysis of 15N tracer field studies. <i>Ecology</i> , 2012 , 93, 1816-29	4.6	162
42	Nitrogen addition alters mineralization dynamics of 13C-depleted leaf and twig litter and reduces leaching of older DOC from mineral soil. <i>Global Change Biology</i> , 2012 , 18, 1412-1427	11.4	50
41	Long-Term Integrated Studies Show Complex and Surprising Effects of Climate Change in the Northern Hardwood Forest. <i>BioScience</i> , 2012 , 62, 1056-1066	5.7	101
40	Ecological effects of nitrogen and sulfur air pollution in the US: what do we know?. <i>Frontiers in Ecology and the Environment</i> , 2012 , 10, 365-372	5.5	132
39	Temperature sensitivity of soil enzyme kinetics under N-fertilization in two temperate forests. <i>Global Change Biology</i> , 2012 , 18, 1173-1184	11.4	174
38	Assessing the Suitability of Rotary Coring for Sampling in Rocky Soils. <i>Soil Science Society of America Journal</i> , 2012 , 76, 1707-1718	2.5	10
37	Climate change impacts of US reactive nitrogen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 7671-5	11.5	102
36	Revisiting Soil Carbon and Nitrogen Sampling. <i>Soil Science</i> , 2011 , 176, 273-279	0.9	25
35	Special issue on nitrogen deposition, critical loads, and biodiversity. Introduction. <i>Environmental Pollution</i> , 2011 , 159, 2211-3	9.3	4
34	A New Conceptual Model of Nitrogen Saturation Based on Experimental Nitrogen Addition to an Oak Forest. <i>Ecosystems</i> , 2011 , 14, 615-631	3.9	181
33	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	3.9	58
32	Effects of nitrogen deposition and empirical nitrogen critical loads for ecoregions of the United States 2011 , 21, 3049-3082		305
31	Fate of soil-applied black carbon: downward migration, leaching and soil respiration. <i>Global Change Biology</i> , 2010 , 16, 1366-1379	11.4	515
30	Increased tree carbon storage in response to nitrogen deposition in the US. <i>Nature Geoscience</i> , 2010 , 3, 13-17	18.3	480
29	Forest carbon storage: ecology, management, and policy. <i>Frontiers in Ecology and the Environment</i> , 2010 , 8, 245-252	5.5	176

28	Unusual seasonal patterns and inferred processes of nitrogen retention in forested headwaters of the Upper Susquehanna River. <i>Biogeochemistry</i> , 2009 , 93, 197-218	3.8	62
27	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> , 2008 , 91, 13-35	3.8	108
26	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	3.9	47
25	Regional Assessment of N Saturation using Foliar and Root (varvec $\delta^{15}\text{N}$). <i>Biogeochemistry</i> , 2006 , 80, 143-171	3.8	156
24	Evidence that Soil Carbon Pool Determines Susceptibility of Semi-Natural Ecosystems to Elevated Nitrogen Leaching. <i>Ecosystems</i> , 2006 , 9, 453-462	3.9	66
23	Long-term Decreases in Stream Nitrate: Successional Causes Unlikely; Possible Links to DOC?. <i>Ecosystems</i> , 2005 , 8, 334-337	3.9	82
22	Fertilizer: complex issue calls for informed debate. <i>Nature</i> , 2004 , 427, 99	50.4	
21	Nitrogen Pollution in the Northeastern United States: Sources, Effects, and Management Options. <i>BioScience</i> , 2003 , 53, 357	5.7	300
20	Soil Carbon Dynamics after Forest Harvest: An Ecosystem Paradigm Reconsidered. <i>Ecosystems</i> , 2003 , 6, 197-212	3.9	222
19	An Unexpected Nitrate Decline in New Hampshire Streams. <i>Ecosystems</i> , 2003 , 6, 0075-0086	3.9	122
18	Is Nitrogen Deposition Altering the Nitrogen Status of Northeastern Forests?. <i>BioScience</i> , 2003 , 53, 375	5.7	491
17	NITROGEN POLLUTION: Sources and Consequences in the U.S. Northeast. <i>Environment</i> , 2003 , 45, 8-22	2.8	12
16	Inorganic Nitrogen Losses from a Forested Ecosystem in Response to Physical, Chemical, Biotic, and Climatic Perturbations. <i>Ecosystems</i> , 2002 , 5, 0648-0658	3.9	159
15	Anthropogenic nitrogen sources and relationships to riverine nitrogen export in the northeastern U.S.A.. <i>Biogeochemistry</i> , 2002 , 57, 137-169	3.8	461
14	Sources of nitrate in rivers draining sixteen watersheds in the northeastern U.S.: Isotopic constraints. <i>Biogeochemistry</i> , 2002 , 57, 171-197	3.8	325
13	Where did all the nitrogen go? Fate of nitrogen inputs to large watersheds in the northeastern U.S.A.. <i>Biogeochemistry</i> , 2002 , 57, 267-293	3.8	250
12	Forest nitrogen sinks in large eastern U.S. watersheds: estimates from forest inventory and an ecosystem model. <i>Biogeochemistry</i> , 2002 , 57, 239-266	3.8	44
11	FOREST CARBON SINKS IN THE NORTHERN HEMISPHERE 2002 , 12, 891-899		578

10	DIRECT ESTIMATION OF ABOVEGROUND FOREST PRODUCTIVITY THROUGH HYPERSPECTRAL REMOTE SENSING OF CANOPY NITROGEN 2002 , 12, 1286-1302		167
9	Forest nitrogen sinks in large eastern U.S. watersheds: estimates from forest inventory and an ecosystem model 2002 , 239-266		
8	Recent patterns and mechanisms of carbon exchange by terrestrial ecosystems. <i>Nature</i> , 2001 , 414, 169-72	50.4	1018
7	Consistent land- and atmosphere-based U.S. carbon sink estimates. <i>Science</i> , 2001 , 292, 2316-20	33.3	676
6	THE LONG-TERM EFFECTS OF LAND-USE HISTORY ON NITROGEN CYCLING IN NORTHERN HARDWOOD FORESTS 2001 , 11, 253-267		199
5	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	3.9	162
4	Mapping monthly precipitation, temperature, and solar radiation for Ireland with polynomial regression and a digital elevation model. <i>Climate Research</i> , 1998 , 10, 35-49	1.6	117
3	Predicting the relative sensitivity of forest production in Ireland to site quality and climate change. <i>Climate Research</i> , 1998 , 10, 51-67	1.6	11
2	Decadal impacts of nitrogen additions on temperate forest carbon sinks: A data-model comparison		2
1	Dissolved and gaseous nitrogen losses in forests controlled by soil nutrient stoichiometry. <i>Environmental Research Letters</i> ,	6.2	1