Charles T Driscoll

List of Publications by Year
in descending order

420 papers	33,458 citations	3731 89 h-index	5679 162 g-index
437 all docs	437 docs citations	437 times ranked	17184 citing authors

#	Article	IF	Citations
1	Mercury as a Global Pollutant: Sources, Pathways, and Effects. Environmental Science & Technology, 2013, 47, 4967-4983.	10.0	1,729
2	Long-Term Effects of Acid Rain: Response and Recovery of a Forest Ecosystem. Science, 1996, 272, 244-246.	12.6	1,021
3	Acidic Deposition in the Northeastern United States: Sources and Inputs, Ecosystem Effects, and Management Strategies. BioScience, 2001, 51, 180.	4.9	868
4	Regional trends in aquatic recovery from acidification in North America and Europe. Nature, 1999, 401, 575-578.	27.8	809
5	Effect of aluminium speciation on fish in dilute acidified waters. Nature, 1980, 284, 161-164.	27.8	754
6	A Procedure for the Fractionation of Aqueous Aluminum in Dilute Acidic Waters. International Journal of Environmental Analytical Chemistry, 1984, 16, 267-283.	3.3	652
7	Acidification and alkalinization of soils. Plant and Soil, 1983, 75, 283-308.	3.7	612
8	Colder soils in a warmer world: A snow manipulation study in a northern hardwood forest ecosystem. Biogeochemistry, 2001, 56, 135-150.	3.5	501
9	Acidic deposition and internal proton sources in acidification of soils and waters. Nature, 1984, 307, 599-604.	27.8	494
10	Mercury Contamination in Forest and Freshwater Ecosystems in the Northeastern United States. BioScience, 2007, 57, 17-28.	4.9	459
11	The biogeochemistry of calcium at Hubbard Brook. Biogeochemistry, 1998, 41, 89-173.	3.5	438
12	Who needs environmental monitoring?. Frontiers in Ecology and the Environment, 2007, 5, 253-260.	4.0	403
13	â€˜Acid rainâ€™, dissolved aluminum and chemical weathering at the Hubbard Brook Experimental Forest, New Hampshire. Geochimica Et Cosmochimica Acta, 1981, 45, 1421-1437.	3.9	392
14	Effects of nitrogen deposition and empirical nitrogen critical loads for ecoregions of the United States. , 2011, 21, 3049-3082.		373
15	Mycorrhizal weathering of apatite as an important calcium source in base-poor forest ecosystems. Nature, 2002, 417, 729-731.	27.8	349
16	Nitrogen Pollution in the Northeastern United States: Sources, Effects, and Management Options. BioScience, 2003, 53, 357.	4.9	335
17	Soil freezing alters fine root dynamics in a northern hardwood forest. Biogeochemistry, 2001, 56, 175-190.	3.5	327
18	The role of dissolved organic carbon in the chemistry and bioavailability of mercury in remote Adirondack lakes. Water, Air, and Soil Pollution, 1995, 80, 499-508.	2.4	298

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19	Climatic Control of Nitrate Loss from Forested Watersheds in the Northeast United States. Environmental Science & Technology, 1996, 30, 2609-2612.	10.0	295
20	Title is missing!. Biogeochemistry, 2001, 56, 215-238.	3.5	289
21	Chemical Response of Lakes in the Adirondack Region of New York to Declines in Acidic Deposition. Environmental Science & Technology, 2003, 37, 2036-2042.	10.0	289
22	Biological Mercury Hotspots in the Northeastern United States and Southeastern Canada. BioScience, 2007, 57, 29-43.	4.9	289
23	Modeling nitrogen saturation in forest ecosystems in response to land use and atmospheric deposition. Ecological Modelling, 1997, 101, 61-78.	2.5	262
24	Recovery of Mercury-Contaminated Fisheries. Ambio, 2007, 36, 33-44.	5.5	255
25	Title is missing!. Biogeochemistry, 2001, 56, 151-174.	3.5	248
26	The Biogeochemistry of Carbon at Hubbard Brook. Biogeochemistry, 2005, 75, 109-176.	3.5	246
27	Prediction of biological acid neutralization in acid-sensitive lakes. Biogeochemistry, 1987, 3, 129-140.	3.5	232
28	Effects of mild winter freezing on soil nitrogen and carbon dynamics in a northern hardwood forest. Biogeochemistry, 2001, 56, 191-213.	3.5	231
29	An evaluation of uncertainty associated with aluminum equilibrium calculations. Water Resources Research, 1987, 23, 525-534.	4.2	229
30	Speciation and Cycling of Mercury in Lavaca Bay, Texas, Sediments. Environmental Science & Technology, 1999, 33, 7-13.	10.0	226
31	Snow depth, soil freezing, and fluxes of carbon dioxide, nitrous oxide and methane in a northern hardwood forest. Global Change Biology, 2006, 12, 1748-1760.	9.5	225
32	The chemistry of aluminum in the environment. Environmental Geochemistry and Health, 1990, 12, 28-49.	3.4	217
33	RESPONSE OF SUGAR MAPLE TO CALCIUM ADDITION TO NORTHERN HARDWOOD FOREST. Ecology, 2006, 87, 1267-1280.	3.2	209
34	Calcium Inputs and Transport in A Base-Poor Forest Ecosystem as Interpreted by Sr Isotopes. Water Resources Research, 1996, 32, 707-719.	4.2	203
35	The zero point of charge of silicaâ€"alumina oxide suspensions. Journal of Colloid and Interface Science, 1984, 97, 55-61.	9.4	201
36	Aluminum Chemistry in a Forested Spodosol. Soil Science Society of America Journal, 1985, 49, 437-444.	2.2	200

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37	MERCURY CYCLING IN LITTER AND SOIL IN DIFFERENT FOREST TYPES IN THE ADIRONDACK REGION, NEW YORK, USA. , 2007, 17, 1341-1351.		195
38	Changes in the chemistry of surface waters. Environmental Science & Technology, 1989, 23, 137-143.	10.0	194
39	Effects of land use, climate variation, and N deposition on N cycling and C storage in northern hardwood forests. Global Biogeochemical Cycles, 1997, 11, 639-648.	4.9	192
40	The biogeochemistry of sulfur at Hubbard Brook. Biogeochemistry, 2002, 60, 235-316.	3.5	190
41	The effects of whole-tree clear-cutting on soil processes at the Hubbard Brook Experimental Forest, New Hampshire, USA. Plant and Soil, 1994, 158, 239-262.	3.7	185
42	Chemical characteristics of Adirondack lakes. Environmental Science & Technology, 1985, 19, 1018-1024.	10.0	183
43	SIMPLE PARTITIONING OF ANIONS AND DISSOLVED ORGANIC CARBON IN A FOREST SOIL. Soil Science, 1986, 142, 27-35.	0.9	181
44	Seasonal and long-term temporal patterns in the chemistry of Adirondack lakes. Water, Air, and Soil Pollution, 1993, 67, 319-344.	2.4	175
45	Element Fluxes and Landscape Position in a Northern Hardwood Forest Watershed Ecosystem. Ecosystems, 2000, 3, 159-184.	3.4	175
46	Aluminum speciation and equilibria in soil solutions of a Haplorthod in the Adirondack Mountains (New York, U.S.A.). Geoderma, 1984, 33, 297-318.	5.1	170
47	The biogeochemistry of potassium at Hubbard Brook. Biogeochemistry, 1994, 25, 61.	3.5	166
48	US power plant carbon standards and clean air and health co-benefits. Nature Climate Change, 2015, 5, 535-540.	18.8	160
49	Sedimentâˆ'Water Fluxes of Mercury in Lavaca Bay, Texas. Environmental Science & Technology, 1999, 33, 663-669.	10.0	155
50	Mercury in Freshwater Fish of Northeast North America ? A Geographic Perspective Based on Fish Tissue Monitoring Databases. Ecotoxicology, 2005, 14, 163-180.	2.4	153
51	Effects of Air Pollution on Ecosystems and Biological Diversity in the Eastern United States. Annals of the New York Academy of Sciences, 2009, 1162, 99-135.	3.8	151
52	Consequences of climate change for biogeochemical cycling in forests of northeastern North AmericaThis article is one of a selection of papers from NE Forests 2100: A Synthesis of Climate Change Impacts on Forests of the Northeastern US and Eastern Canada.. Canadian Journal of Forest Research, 2009, 39, 264-284.	1.7	148
53	In-stream uptake dampens effects of major forest disturbance on watershed nitrogen export. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10304-10308.	7.1	147
54	THE EFFECT OF pH ON SULFATE ADSORPTION BY A FOREST SOIL. Soil Science, 1986, 142, 69-75.	0.9	141

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55	Modeling the acid-base chemistry of organic solutes in Adirondack, New York, lakes. Water Resources Research, 1994, 30, 297-306.	4.2	139
56	Environmental control of fine root dynamics in a northern hardwood forest. Global Change Biology, 2003, 9, 670-679.	9.5	139
57	Experimental inducement of nitrogen saturation at the watershed scale. Environmental Science & Technology, 1993, 27, 565-568.	10.0	138
58	Decreased atmospheric nitrogen deposition in eastern North America: Predicted responses of forest ecosystems. Environmental Pollution, 2019, 244, 560-574.	7.5	133
59	Historical Trends of Mercury Deposition in Adirondack Lakes. Environmental Science & Technology, 1999, 33, 718-722.	10.0	131
60	Input-Output Budgets of Inorganic Nitrogen for 24 Forest Watersheds in the Northeastern United States: A Review. Water, Air, and Soil Pollution, 2004, 151, 373-396.	2.4	131
61	The chemistry and transport of mercury in a small wetland in the Adirondack region of New York, USA. Biogeochemistry, 1998, 40, 137-146.	3.5	130
62	Concentration and flux of solutes from snow and forest floor during snowmelt in the West-Central Adirondack region of New York. Biogeochemistry, 1987, 3, 209-224.	3.5	129
63	Empirical Critical Loads of Atmospheric Nitrogen Deposition for Nutrient Enrichment and Acidification of Sensitive US Lakes. BioScience, 2011, 61, 602-613.	4.9	128
64	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
65	Spatial patterns of precipitation quantity and chemistry and air temperature in the Adirondack region of New York. Atmospheric Environment, 2002, 36, 1051-1062.	4.1	127
66	The role of organic acids in the acidification of surface waters in the Eastern U.S.. Water, Air, and Soil Pollution, 1989, 43, 21-40.	2.4	124
67	Factors regulating throughfall flux in a New Hampshire forested landscape. Canadian Journal of Forest Research, 1996, 26, 2134-2144.	1.7	124
68	Freezing Effects on Carbon and Nitrogen Cycling in Northern Hardwood Forest Soils. Soil Science Society of America Journal, 2001, 65, 1723-1730.	2.2	122
69	Snow depth, soil freezing and nitrogen cycling in a northern hardwood forest landscape. Biogeochemistry, 2011, 102, 223-238.	3.5	122
70	Long-term temporal trends and spatial patterns in the acid-base chemistry of lakes in the Adirondack region of New York in response to decreases in acidic deposition. Atmospheric Environment, 2016, 146, 5-14.	4.1	121
71	Climate Variation and Soil Carbon and Nitrogen Cycling Processes in a Northern Hardwood Forest. Ecosystems, 2009, 12, 927-943.	3.4	117
72	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

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73	The biogeochemistry of chlorine at Hubbard Brook, New Hampshire, USA. Biogeochemistry, 2005, 72, 191-232.	3.5	115
74	POTENTIAL EFFECTS OF CLIMATE CHANGE ON FRESHWATER ECOSYSTEMS OF THE NEW ENGLAND/MID-ATLANTIC REGION. , 1997, 11, 925-947.		114
75	Aluminum in acidic surface waters: chemistry, transport, and effects.. Environmental Health Perspectives, 1985, 63, 93-104.	6.0	113
76	Sulfate Adsorption Relationships in Forested Spodosols of the Northeastern USA. Soil Science Society of America Journal, 1985, 49, 1034-1040.	2.2	110
77	Continuing Acidification of Organic Soils across the Northeastern USA: 1984â€“2001. Soil Science Society of America Journal, 2009, 73, 274-284.	2.2	108
78	Effects of soil freezing on fine roots in a northern hardwood forest. Canadian Journal of Forest Research, 2008, 38, 82-91.	1.7	106
79	Nitrogen Dynamics in Ice Storm-Damaged Forest Ecosystems: Implications for Nitrogen Limitation Theory. Ecosystems, 2003, 6, 431-443.	3.4	105
80	Mercury dynamics in relation to dissolved organic carbon concentration and quality during high flow events in three northeastern U.S. streams. Water Resources Research, 2010, 46, .	4.2	105
81	An evaluation of the equilibrium calculations within acidification models: The effect of uncertainty in measured chemical components. Water Resources Research, 1988, 24, 533-540.	4.2	104
82	Restoring Soil Calcium Reverses Forest Decline. Environmental Science and Technology Letters, 2014, 1, 15-19.	8.7	103
83	Wetland influence on mercury fate and transport in a temperate forested watershed. Environmental Pollution, 2008, 154, 46-55.	7.5	100
84	Evaluation of an integrated biogeochemical model (PnET-BGC) at a northern hardwood forest ecosystem. Water Resources Research, 2001, 37, 1057-1070.	4.2	99
85	Deconstruction of Historic Mercury Accumulation in Lake Sediments, Northeastern United States. Ecotoxicology, 2005, 14, 85-99.	2.4	98
86	Seasonality in phosphorus release rates from the sediments of a hypereutrophic lake under a matrix of pH and redox conditions. Canadian Journal of Fisheries and Aquatic Sciences, 2000, 57, 1033-1041.	1.4	96
87	Soluble Aluminum Silicates: Stoichiometry, Stability, and Implications for Environmental Geochemistry. Science, 1992, 256, 1667-1670.	12.6	95
88	Peer Reviewed: Have U.S. Surface Waters Responded to the 1990 Clean Air Act Amendments?. Environmental Science & Technology, 2004, 38, 484A-490A.	10.0	95
89	Streamflow responses to past and projected future changes in climate at the Hubbard Brook Experimental Forest, New Hampshire, United States. Water Resources Research, 2011, 47, .	4.2	95
90	Physical, chemical, and biological consequences of episodic aluminum additions to a stream1. Limnology and Oceanography, 1985, 30, 212-220.	3.1	93

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91	Longitudinal and temporal trends in the water chemistry of the North Branch of the Moose River. Biogeochemistry, 1987, 3, 37-61.	3.5	93
92	Mercury dynamics of a northern hardwood canopy. Atmospheric Environment, 2008, 42, 6905-6914.	4.1	91
93	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
94	Partitioning Light Attenuation in an Acidic Lake. Canadian Journal of Fisheries and Aquatic Sciences, 1985, 42, 1707-1711.	1.4	90
95	Effect of Whole-Tree Harvesting on the Sulfur Dynamics of a Forest Soil. Soil Science Society of America Journal, 1989, 53, 933-940.	2.2	90
96	A Critical Time for Mercury Science to Inform Global Policy. Environmental Science & Technology, 2018, 52, 9556-9561.	10.0	90
97	Influence of aqueous aluminium and organic acids on measurement of acid neutralizing capacity in surface waters. Nature, 1989, 338, 408-410.	27.8	89
98	Long-term trends in the chemistry of precipitation and lake water in the Adirondack Region of New York, USA. Water, Air, and Soil Pollution, 1995, 85, 583-588.	2.4	89
99	Title is missing!. Water, Air, and Soil Pollution, 1998, 105, 319-329.	2.4	89
100	Winter climate change affects growingâ€season soil microbial biomass and activity in northern hardwood forests. Global Change Biology, 2014, 20, 3568-3577.	9.5	87
101	The experimental watershed liming study: Comparison of lake and watershed neutralization strategies. Biogeochemistry, 1996, 32, 143-174.	3.5	86
102	Sources of nitrogen to estuaries in the United States. Estuaries and Coasts, 2003, 26, 803-814.	1.7	86
103	Hydrogeologic controls of surface-water chemistry in the Adirondack region of New York State. Biogeochemistry, 1987, 3, 163-180.	3.5	85
104	Soil processes and sulfate loss at the Hubbard Brook Experimental Forest. Biogeochemistry, 1988, 5, 185-199.	3.5	85
105	Spatial and temporal patterns of mercury accumulation in lacustrine sediments across the Laurentian Great Lakes region. Environmental Pollution, 2012, 161, 252-260.	7.5	85
106	Organic matter chemistry and dynamics in clear-cut and unmanaged hardwood forest ecosystems. Biogeochemistry, 2001, 54, 51-83.	3.5	84
107	Longitudinal Variations in Trace Metal Concentrations in a Northern Forested Ecosystem. Journal of Environmental Quality, 1988, 17, 101-107.	2.0	83
108	Monitoring the Response to Changing Mercury Deposition. Environmental Science & Technology, 2005, 39, 14A-22A.	10.0	83

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109	DYNAMICS OF NITROGEN AND DISSOLVED ORGANIC CARBON AT THE HUBBARD BROOK EXPERIMENTAL FOREST. Ecology, 2007, 88, 1153-1166.	3.2	83
110	Aluminum toxicity in forests exposed to acidic deposition: The ALBIOS results. Water, Air, and Soil Pollution, 1989, 48, 181.	2.4	82
111	Ultraviolet absorbance as a proxy for total dissolved mercury in streams. Environmental Pollution, 2009, 157, 1953-1956.	7.5	82
112	Aluminum Precipitation and Dissolution Rates in Spodosol Bs Horizons in the Northeastern USA. Soil Science Society of America Journal, 1989, 53, 1045-1052.	2.2	80
113	Deposition of Mercury in Forests along a Montane Elevation Gradient. Environmental Science & Technology, 2015, 49, 5363-5370.	10.0	80
114	Nitrogen oligotrophication in northern hardwood forests. Biogeochemistry, 2018, 141, 523-539.	3.5	80
115	Title is missing!. Biogeochemistry, 1997, 37, 173-202.	3.5	78
116	Nutrient supply and mercury dynamics in marine ecosystems: A conceptual model. Environmental Research, 2012, 119, 118-131.	7.5	78
117	Spatial relationships of aluminum chemistry in the streams of the Hubbard Brook Experimental Forest, New Hampshire. Biogeochemistry, 1986, 2, 115-135.	3.5	77
118	The episodic acidification of Adirondack Lakes during snowmelt. Water Resources Research, 1990, 26, 1639-1647.	4.2	77
119	Calcium Additions and Microbial Nitrogen Cycle Processes in a Northern Hardwood Forest. Ecosystems, 2006, 9, 1289-1305.	3.4	77
120	Response of surface water chemistry to reduced levels of acid precipitation: comparison of trends in two regions of New York, USA. Hydrological Processes, 2006, 20, 1611-1627.	2.6	77
121	Importance of hydrogen ions and aluminium in regulating the structure and function of stream ecosystems: an experimental test. Freshwater Biology, 1987, 18, 17-43.	2.4	76
122	From Missing Source to Missing Sink: Long-Term Changes in the Nitrogen Budget of a Northern Hardwood Forest. Environmental Science & Technology, 2013, 47, 11440-11448.	10.0	76
123	Dissolution of wollastonite during the experimental manipulation of Hubbard Brook Watershed 1. Biogeochemistry, 2004, 67, 309-329.	3.5	75
124	Fish species distribution in relation to water quality gradients in the North Branch of the Moose River Basin. Biogeochemistry, 1987, 3, 63-85.	3.5	74
125	Short-term changes in the base neutralizing capacity of an acid Adirondack lake, New York. Nature, 1984, 310, 308-310.	27.8	73
126	Beaver pond biogeochemistry: Acid neutralizing capacity generation in a headwater wetland. Wetlands, 1993, 13, 277-292.	1.5	73

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127	Biogeochemistry of a forested watershed in the central Adirondack Mountains: Temporal changes and mass balances. Water, Air, and Soil Pollution, 1996, 88, 355-369.	2.4	73
128	Evidence for Regulation of Monomethyl Mercury by Nitrate in a Seasonally Stratified, Eutrophic Lake. Environmental Science & Technology, 2009, 43, 6572-6578.	10.0	73
129	Effects of acidic deposition on the chemistry of headwater streams: A comparison between Hubbard Brook, New Hampshire, and Jamieson Creek, British Columbia. Water Resources Research, 1988, 24, 195-200.	4.2	72
130	pH-dependent binding of aluminum by a fulvic acid. Environmental Science & Technology, 1993, 27, 915-922.	10.0	72
131	Changes in the chemistry of lakes in the Adirondack region of New York following declines in acidic deposition. Applied Geochemistry, 2007, 22, 1181-1188.	3.0	71
132	Changing climate alters inputs and pathways of mercury deposition to forested ecosystems. Biogeochemistry, 2014, 119, 215-228.	3.5	69
133	Whole-lake nitrate addition for control of methylmercury in mercury-contaminated Onondaga Lake, NY. Environmental Research, 2013, 125, 52-60.	7.5	68
134	Importance of Integration and Implementation of Emerging and Future Mercury Research into the Minamata Convention. Environmental Science & Technology, 2016, 50, 2767-2770.	10.0	68
135	Lead cycling in an acidic Adirondack lake. Environmental Science & Technology, 1985, 19, 1182-1187.	10.0	67
136	Climate change decreases nitrogen pools and mineralization rates in northern hardwood forests. Ecosphere, 2016, 7, e01251.	2.2	67
137	Amazon forests capture high levels of atmospheric mercury pollution from artisanal gold mining. Nature Communications, 2022, 13, 559.	12.8	67
138	MercNet: a national monitoring network to assess responses to changing mercury emissions in the United States. Ecotoxicology, 2011, 20, 1713-1725.	2.4	65
139	Root stress and nitrogen deposition: consequences and research priorities. New Phytologist, 2013, 197, 712-719.	7.3	65
140	Chemistry and Fate of Al(III) in Treated Drinking Water. Journal of Environmental Engineering, ASCE, 1988, 114, 21-37.	1.4	64
141	Role of Soil Freezing Events in Interannual Patterns of Stream Chemistry at the Hubbard Brook Experimental Forest, New Hampshire. Environmental Science & Technology, 2003, 37, 1575-1580.	10.0	64
142	Long-term trends in soil solution and stream water chemistry at the Hubbard Brook Experimental Forest: relationship with landscape position. Biogeochemistry, 2004, 68, 51-70.	3.5	64
143	Stable sulfur isotope ratios as a tool for interpreting ecosystem sulfur dynamics. Water, Air, and Soil Pollution, 1986, 28, 163-171.	2.4	64
144	Differential sensitivity to climate change of C and N cycling processes across soil horizons in a northern hardwood forest. Soil Biology and Biochemistry, 2017, 107, 77-84.	8.8	63

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145	Hydrologic control of aluminum chemistry in an acidic headwater stream. Water Resources Research, 1988, 24, 659-669.	4.2	62
146	Distribution Patterns of Mercury in Lakes and Rivers of Northeastern North America. Ecotoxicology, 2005, 14, 113-123.	2.4	62
147	A shift in sulfur-cycle manipulation from atmospheric emissions to agricultural additions. Nature Geoscience, 2020, 13, 597-604.	12.9	62
148	Factors influencing changes in mercury concentrations in lake water and yellow perch (Perca) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	3.5	61
149	Comparison between Pyrocatechol Violet and 8-Hydroxyquinoline Procedures for Determining Aluminum Fractions. Soil Science Society of America Journal, 1992, 56, 449-455.	2.2	60
150	ASSESSMENT OF MERCURY IN WATERS, SEDIMENTS, AND BIOTAOF NEW HAMPSHIRE AND VERMONT LAKES, USA, SAMPLED USINGA GEOGRAPHICALLY RANDOMIZED DESIGN. Environmental Toxicology and Chemistry, 2004, 23, 1172.	4.3	60
151	Incorporation of 35Sâ€sulfate Into Inorganic and Organic Constituents of Two Forest Soils. Soil Science Society of America Journal, 1986, 50, 457-462.	2.2	59
152	Factors regulating residual aluminium concentrations in treated waters. Environmetrics, 1995, 6, 287-305.	1.4	59
153	Long-term recovery of lakes in the Adirondack region of New York to decreases in acidic deposition. Atmospheric Environment, 2012, 46, 56-64.	4.1	59
154	Soil mercury and its response to atmospheric mercury deposition across the northeastern United States. Ecological Applications, 2014, 24, 812-822.	3.8	59
155	Release of Aluminum following Whole-Tree Harvesting at the Hubbard Brook Experimental Forest, New Hampshire. Journal of Environmental Quality, 1987, 16, 383-390.	2.0	58
156	Processes regulating temporal and longitudinal variations in the chemistry of a low-order woodland stream in the Adirondack region of New York. Biogeochemistry, 1987, 3, 225-241.	3.5	57
157	Patterns of nitrate loss from a chronosequence of clear-cut watersheds. Water, Air, and Soil Pollution, 1995, 85, 1659-1664.	2.4	57
158	Chemical Recovery of Surface Waters Across the Northeastern United States from Reduced Inputs of Acidic Deposition:Â 1984â"2001. Environmental Science & Technology, 2005, 39, 6548-6554.	10.0	57
159	Acid-base Characteristics of Soils in the Adirondack Mountains, New York. Soil Science Society of America Journal, 2006, 70, 141-152.	2.2	57
160	Mercury Contamination in Riverine Sediments and Fish Associated with Artisanal and Small-Scale Gold Mining in Madre de Dios, Peru. International Journal of Environmental Research and Public Health, 2018, 15, 1584.	2.6	57
161	A field experiment to test whether organic acids buffer acid deposition. Nature, 1990, 345, 798-800.	27.8	56
162	Water quantity and quality response of a green roof to storm events: Experimental and monitoring observations. Environmental Pollution, 2016, 218, 664-672.	7.5	56

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163	Aluminum Speciation Using Morin: I. Morin and Its Complexes with Aluminum. Journal of Environmental Quality, 1990, 19, 65-72.	2.0	55
164	Processes regulating sulphate flux after whole-tree harvesting. Nature, 1987, 325, 707-710.	27.8	54
165	Modification of stream ecosystem structure and function by beaver (<i>Castor canadensis</i>) in the Adirondack Mountains, New York. Canadian Journal of Zoology, 1991, 69, 55-61.	1.0	54
166	The relative uptake of Ca and Sr into tree foliage using a whole-watershed calcium addition. Biogeochemistry, 2006, 80, 21-41.	3.5	52
167	Spatial patterns of mercury in biota of Adirondack, New York lakes. Ecotoxicology, 2011, 20, 1543-1554.	2.4	52
168	Patterns of Total Mercury Concentrations in Onondaga Lake, New York. Environmental Science & Technology, 1995, 29, 2261-2266.	10.0	51
169	Chemical Response of Lakes Treated with CaCO3 to Reacidification. Canadian Journal of Fisheries and Aquatic Sciences, 1989, 46, 258-267.	1.4	49
170	Atmospheric Nitrogen Deposition to Estuaries in the Mid-Atlantic and Northeastern United States. Environmental Science & Technology, 2002, 36, 3242-3249.	10.0	49
171	Chemical changes in soil and soil solution after calcium silicate addition to a northern hardwood forest. Biogeochemistry, 2010, 100, 3-20.	3.5	49
172	Soil solution chemistry of an Adirondack Spodosol: lysimetry and N dynamics. Canadian Journal of Forest Research, 1990, 20, 818-824.	1.7	48
173	Leaching of nutrient cations from the forest floor: effects of nitrogen saturation in two long-term manipulations. Canadian Journal of Forest Research, 1999, 29, 609-620.	1.7	48
174	Title is missing!. Water, Air, and Soil Pollution, 2001, 130, 75-86.	2.4	48
175	Total and methyl mercury transformations and mass loadings within a wastewater treatment plant and the impact of the effluent discharge to an alkaline hypereutrophic lake. Water Research, 2010, 44, 2863-2875.	11.3	48
176	Dry deposition of sulfur: a 23-year record for the Hubbard Brook Forest ecosystem. Tellus, Series B: Chemical and Physical Meteorology, 2022, 42, 319.	1.6	47
177	Evaluating the efficiency of environmental monitoring programs. Ecological Indicators, 2014, 39, 94-101.	6.3	47
178	Proton and Aluminum Binding Properties of Organic Acids in Surface Waters of the Northeastern U.S.. Environmental Science & Technology, 2015, 49, 2939-2947.	10.0	47
179	Phosphorus deposition from the epilimnion of Onondaga Lake1. Limnology and Oceanography, 1985, 30, 833-843.	3.1	46
180	Foliar Nitrogen Responses to Elevated Atmospheric Nitrogen Deposition in Nine Temperate Forest Canopy Species. Environmental Science & Technology, 2007, 41, 5191-5197.	10.0	46

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181	The role of interface organizations in science communication and understanding. Frontiers in Ecology and the Environment, 2010, 8, 306-313.	4.0	46
182	Acid rain mitigation experiment shifts a forested watershed from a net sink to a net source of nitrogen. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7580-7583.	7.1	46
183	Acidification and recovery of a Spodosol Bs horizon from acidic deposition. Environmental Science & Technology, 1990, 24, 531-537.	10.0	45
184	The impacts of a watershed CaCO3 treatment on stream and wetland biogeochemistry in the Adirondack Mountains. Biogeochemistry, 1996, 32, 265-297.	3.5	44
185	Mercury methylation in Sphagnum moss mats and its association with sulfate-reducing bacteria in an acidic Adirondack forest lake wetland. FEMS Microbiology Ecology, 2010, 74, 655-668.	2.7	44
186	Elevation dependent sensitivity of northern hardwoods to Ca addition at Hubbard Brook Experimental Forest, NH, USA. Forest Ecology and Management, 2010, 260, 2115-2124.	3.2	44
187	Diffusivityâ€Based Flux of Phosphorus in Onondaga Lake. Journal of Environmental Engineering, ASCE, 1983, 109, 1403-1415.	1.4	42
188	Calcium chemistry and deposition in ionically enriched Onondaga Lake, New York. Environmental Science & Technology, 1985, 19, 716-720.	10.0	42
189	Supply of phosphorus to the water column of a productive hardwater lake: controlling mechanisms and management considerations. Hydrobiologia, 1993, 253, 61-72.	2.0	42
190	Science and Society: The Role of Long-Term Studies in Environmental Stewardship. BioScience, 2012, 62, 354-366.	4.9	42
191	Decreased water flowing from a forest amended with calcium silicate. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5999-6003.	7.1	42
192	Using foliar and forest floor mercury concentrations to assess spatial patterns of mercury deposition. Environmental Pollution, 2015, 202, 126-134.	7.5	41
193	Simplified Version of the Ampouleâ€"Persulfate Method for Determination of Dissolved Organic Carbon. Canadian Journal of Fisheries and Aquatic Sciences, 1987, 44, 214-218.	1.4	40
194	Changes in Inorganic Carbon Chemistry and Deposition of Onondaga Lake, New York. Environmental Science & Technology, 1994, 28, 1211-1218.	10.0	40
195	Legacy mercury and stoichiometry with C, N, and S in soil, pore water, and stream water across the uplandâ€wetland interface: The influence of hydrogeologic setting. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 825-841.	3.0	40
196	Soil Chemical Dynamics after Calcium Silicate Addition to a Northern Hardwood Forest. Soil Science Society of America Journal, 2014, 78, 1458-1468.	2.2	40
197	The effects of climate downscaling technique and observational data set on modeled ecological responses. Ecological Applications, 2016, 26, 1321-1337.	3.8	39
198	Water quality function of an extensive vegetated roof. Science of the Total Environment, 2018, 625, 928-939.	8.0	39

#	Article	IF	Citations
199	The episodic acidification of a stream with elevated concentrations of dissolved organic carbon. Hydrological Processes, 2004, 18, 2663-2680.	2.6	38
200	Development of a total maximum daily load (TMDL) for acid-impaired lakes in the Adirondack region of New York. Atmospheric Environment, 2014, 95, 277-287.	4.1	38
201	Recovery from chronic and snowmelt acidification: Longâ€term trends in stream and soil water chemistry at the Hubbard Brook Experimental Forest, New Hampshire, USA. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 2360-2374.	3.0	38
202	Photochemical Characterization of Surface Waters from Lakes in the Adirondack Region of New York. Environmental Science & Technology, 2020, 54, 10654-10667.	10.0	38
203	Title is missing!. Biogeochemistry, 2003, 63, 161-185.	3.5	37
204	Mercury transport in response to storm events from a northern forest landscape. Hydrological Processes, 2008, 22, 4813-4826.	2.6	37
205	Dynamics of oxidized and reduced iron in a northern hardwood forest. Biogeochemistry, 2011, 104, 103-119.	3.5	37
206	Modeling potential hydrochemical responses to climate change and increasing CO₂at the Hubbard Brook Experimental Forest using a dynamic biogeochemical model (PnETâ€BGC). Water Resources Research, 2012, 48, .	4.2	37
207	Critical loads and exceedances for nitrogen and sulfur atmospheric deposition in <scp>G</scp>reat <scp>S</scp>moky <scp>M</scp>ountains <scp>N</scp>ational <scp>P</scp>ark, <scp>U</scp>nited <scp>S</scp>tates. Ecosphere, 2016, 7, e01466.	2.2	37
208	Comparison of Terrestrial and Hypolimnetic Sediment Generation of Acid Neutralizing Capacity for an Acidic Adirondack Lake. Environmental Science & Technology, 1987, 21, 988-993.	10.0	36
209	Soil Freezing and the Acidâ€Base Chemistry of Soil Solutions in a Northern Hardwood Forest. Soil Science Society of America Journal, 2003, 67, 1897-1908.	2.2	36
210	Mechanism of Accumulation of Methylmercury in Rice (<i>Oryza sativa</i> L.) in a Mercury Mining Area. Environmental Science & Technology, 2018, 52, 9749-9757.	10.0	36
211	Zinc cycling in an acidic Adirondack lake. Environmental Science & Technology, 1987, 21, 211-216.	10.0	35
212	Methane fluxes, concentrations, and production in two Adirondack beaver impoundments. Limnology and Oceanography, 1992, 37, 1057-1066.	3.1	35
213	Decline in mobilization of toxic aluminium. Nature, 2002, 417, 242-243.	27.8	35
214	Electron budgets for the hypolimnion of a recovering urban lake, 1989-2004: Response to changes in organic carbon deposition and availability of electron acceptors. Limnology and Oceanography, 2008, 53, 743-759.	3.1	35
215	Benefits of Regulating Hazardous Air Pollutants from Coal and Oil-Fired Utilities in the United States. Environmental Science & Technology, 2016, 50, 2117-2120.	10.0	35
216	Increased carbon capture by a silicate-treated forested watershed affected by acid deposition. Biogeosciences, 2021, 18, 169-188.	3.3	35

#	Article	IF	Citations
217	Reductions in the deposition of sulfur and selenium to agricultural soils pose risk of future nutrient deficiencies. Communications Earth & Environment, 2021, 2, .	6.8	35
218	Manganese cycling in an acidic Adirondack lake. Biogeochemistry, 1987, 3, 87-103.	3.5	34
219	Relationships between stream acidity and bacteria, macroinvertebrates, and fish: a comparison of north temperate and south temperate mountain streams, USA. Hydrobiologia, 1992, 239, 7-24.	2.0	34
220	A strategy for the regional analysis of the effects of physical and chemical climate change on biogeochemical cycles in northeastern (U.S.) forests. Ecological Modelling, 1993, 67, 37-47.	2.5	34
221	Nitrogen biogeochemistry in the Adirondack Mountains of New York: hardwood ecosystems and associated surface waters. Environmental Pollution, 2003, 123, 355-364.	7.5	34
222	Initial responses of phosphorus biogeochemistry to calcium addition in a northern hardwood forest ecosystem. Canadian Journal of Forest Research, 2003, 33, 1864-1873.	1.7	34
223	Hydrologic processes that govern stormwater infrastructure behaviour. Hydrological Processes, 2017, 31, 4492-4506.	2.6	34
224	Evaluation of the role of sea salt inputs in the long-term acidification of coastal New England lakes. Environmental Science & Technology, 1988, 22, 185-190.	10.0	33
225	A Regional Analysis of Lake Acidification Trends for the Northeastern U.S., 1982-1994. Environmental Monitoring and Assessment, 1998, 51, 399-413.	2.7	33
226	Changes in streamwater chemistry after 20 years from forested watersheds in New Hampshire, U.S.A.. Canadian Journal of Forest Research, 2000, 30, 1206-1213.	1.7	33
227	Avian, salamander, and forest floor mercury concentrations increase with elevation in a terrestrial ecosystem. Environmental Toxicology and Chemistry, 2014, 33, 208-215.	4.3	33
228	Nitrate and dissolved organic carbon mobilization in response to soil freezing variability. Biogeochemistry, 2016, 131, 35-47.	3.5	33
229	Acid Rain and Soil Chemistry. Science, 1984, 225, 1424-1425.	12.6	32
230	Dry deposition of sulfur: a 23-year record for the Hubbard Brook Forest ecosystem. Tellus, Series B: Chemical and Physical Meteorology, 1990, 42, 319-329.	1.6	32
231	Mercury dynamics and transport in two Adirondack Lakes. Limnology and Oceanography, 2009, 54, 413-427.	3.1	32
232	Lake/watershed sulfur budgets and their response to decreases in atmospheric sulfur deposition: watershed and climate controls. Hydrological Processes, 2013, 27, 710-720.	2.6	32
233	Foliage/atmosphere exchange of mercury in a subtropical coniferous forest in south China. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2006-2016.	3.0	32
234	Longâ€term and seasonal hydrologic performance of an extensive green roof. Hydrological Processes, 2018, 32, 2471-2482.	2.6	32

#	Article	IF	Citations
235	Influence of organic acids on model projections of lake acidification. Water, Air, and Soil Pollution, 1996, 91, 271-282.	2.4	31
236	Soil Retention of Trifluoroacetate. Environmental Science & Technology, 1997, 31, 1723-1727.	10.0	31
237	Nor Gloom of Night: A New Conceptual Model for the Hubbard Brook Ecosystem Study. BioScience, 2004, 54, 139.	4.9	31
238	Nitrogen inputâ€"output budgets for lake-containing watersheds in the Adirondack region of New York. Biogeochemistry, 2005, 72, 283-314.	3.5	31
239	A synthesis of rates and controls on elemental mercury evasion in the Great Lakes Basin. Environmental Pollution, 2012, 161, 291-298.	7.5	31
240	Relationships between Acidity and Benthic Invertebrates of Low-Order Woodland Streams in the Adirondack Mountains, New York. Canadian Journal of Fisheries and Aquatic Sciences, 1990, 47, 1318-1329.	1.4	30
241	Workshop on Comparison of Forest-Soil-Atmosphere Models: Preface. Ecological Modelling, 1995, 83, 1-6.	2.5	30
242	The application of an integrated biogeochemical model (PnET-BGC) to five forested watersheds in the Adirondack and Catskill regions of New York. Hydrological Processes, 2004, 18, 2631-2650.	2.6	30
243	Mercury concentrations in tropical resident and migrant songbirds on Hispaniola. Ecotoxicology, 2013, 22, 86-93.	2.4	30
244	Deposition of mercury in forests across a montane elevation gradient: Elevational and seasonal patterns in methylmercury inputs and production. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 1922-1939.	3.0	30
245	Modeled ecohydrological responses to climate change at seven small watersheds in the northeastern United States. Global Change Biology, 2017, 23, 840-856.	9.5	30
246	Chemistry of a near-shore lake region during spring snowmelt. Environmental Science & Technology, 1991, 25, 2024-2030.	10.0	29
247	Use of historical assessment for evaluation of process-based model projections of future environmental change: Lake acidification in the adirondack mountains, New York, USA. Environmental Pollution, 1992, 77, 253-262.	7.5	29
248	Acid-base chemistry and aluminum transport in an acidic watershed and pond in New Hampshire. Biogeochemistry, 1995, 28, 69-91.	3.5	29
249	Winter-Time Climatic Control on Dissolved Organic Carbon Export and Surface Water Chemistry in an Adirondack Forested Watershed. Environmental Science & Technology, 2005, 39, 6993-6998.	10.0	29
250	Integrating Science and Policy: A Case Study of the Hubbard Brook Research Foundation Science Links Program. BioScience, 2011, 61, 791-801.	4.9	29
251	A chloride budget for Onondaga Lake, New York, U.S.A.. Water, Air, and Soil Pollution, 1986, 27, 29-44.	2.4	28
252	Aluminum Speciation Using Morin: II. Principles and Procedures. Journal of Environmental Quality, 1990, 19, 73-82.	2.0	28

#	Article	IF	Citations
253	Local to regional emission sources affecting mercury fluxes to New York lakesâ˜†. Atmospheric Environment, 2008, 42, 6088-6097.	4.1	28
254	Marine mercury fate: From sources to seafood consumers. Environmental Research, 2012, 119, 1-2.	7.5	28
255	Is Mercury in a Remote Forested Watershed of the Adirondack Mountains Responding to Recent Decreases in Emissions?. Environmental Science & Technology, 2016, 50, 10943-10950.	10.0	28
256	Meteorological effects on Hg wet deposition in a forested site in the Adirondack region of New York during 2000â€“2015. Atmospheric Environment, 2017, 168, 90-100.	4.1	28
257	Forest clearcutting effects on trace metal concentrations: Spatial patterns in soil solutions and streams. Water, Air, and Soil Pollution, 1988, 40, 185-195.	2.4	28
258	Spatial and temporal variations in aluminum chemistry of a dilute, acidic lake. Biogeochemistry, 1987, 3, 105-119.	3.5	27
259	Thermal Stratification Modeling of Lakes with Sediment Heat Flux. Journal of Hydraulic Engineering, 1992, 118, 407-419.	1.5	27
260	Effects of Whole-Lake Base Addition on the Optical Properties of Three Clearwater Acidic Lakes. Canadian Journal of Fisheries and Aquatic Sciences, 1991, 48, 1030-1040.	1.4	26
261	Effect of whole catchment liming on the episodic acidification of two adirondack streams. Biogeochemistry, 1996, 32, 299-322.	3.5	26
262	Nitrogen biogeochemistry of three hardwood ecosystems in the Adirondack Region of New York. Biogeochemistry, 2001, 56, 93-133.	3.5	26
263	Regional Assessment of the Response of the Acidâˆ'Base Status of Lake Watersheds in the Adirondack Region of New York to Changes in Atmospheric Deposition Using PnET-BGC. Environmental Science & Technology, 2005, 39, 787-794.	10.0	26
264	Watershed Land Use Controls on Chemical Inputs to Lake Ontario Embayments. Journal of Environmental Quality, 2009, 38, 2084-2095.	2.0	26
265	A simulation model of sulfur transformations in forested Spodosols. Biogeochemistry, 1986, 2, 313-328.	3.5	25
266	Short-Term Changes in the Chemistry of Trace Metals Following Calcium Carbonate Treatment of Acidic Lakes. Canadian Journal of Fisheries and Aquatic Sciences, 1989, 46, 249-257.	1.4	25
267	Longitudinal patterns of concentration-discharge relationships in stream water draining the Hubbard Brook Experimental Forest, New Hampshire. Journal of Hydrology, 1990, 116, 147-165.	5.4	25
268	Identifying sources of snowmelt acidification with a watershed mixing model. Water, Air, and Soil Pollution, 1993, 67, 345-365.	2.4	25
269	Flow path-composition relationships for groundwater entering an acidic lake. Water Resources Research, 1993, 29, 145-154.	4.2	25
270	Smectite in Spodosols from the Adirondack Mountains of New York. Clay Minerals, 2004, 39, 99-113.	0.6	25

#	Article	IF	Citations
271	Integrating mercury research and policy in a changing world. Ambio, 2018, 47, 111-115.	5.5	25
272	THE SPATIAL PATTERN OF NITROGEN CYCLING IN THE ADIRONDACK PARK, NEW YORK. , 2008, 18, 438-452.		24
273	Foliar Nitrogen Responses to the Environmental Gradient Matrix of the Adirondack Park, New York. Annals of the American Association of Geographers, 2012, 102, 1-16.	3.0	24
274	Watershed-Level Responses to Calcium Silicate Treatment in a Northern Hardwood Forest. Ecosystems, 2012, 15, 416-434.	3.4	24
275	Zooplankton Community Changes Confound the Biodilution Theory of Methylmercury Accumulation in a Recovering Mercury-Contaminated Lake. Environmental Science & Technology, 2015, 49, 4066-4071.	10.0	24
276	Calcium carbonate deposition in Ca2+ polluted Onondaga Lake, New York, U.S.A.. Water Research, 1996, 30, 2139-2147.	11.3	23
277	The response of lake water in the Adirondack region of New York to changes in acidic deposition. Environmental Science and Policy, 1998, 1, 185-198.	4.9	23
278	Evaluation of the effects of future controls on sulfur dioxide and nitrogen oxide emissions on the acidâ€"base status of a northern forest ecosystem. Atmospheric Environment, 2002, 36, 1631-1643.	4.1	23
279	Landscape variation in microarthropod response to calcium addition in a northern hardwood forest ecosystem. Pedobiologia, 2006, 50, 69-78.	1.2	23
280	Evaluation of CMAQ Coupled With a Stateâ€ofâ€theâ€Art Mercury Chemical Mechanism (CMAQâ€newHgâ€Br). Journal of Advances in Modeling Earth Systems, 2018, 10, 668-690.	3.8	23
281	Short-Term Changes in the Acid/Base Chemistry of Two Acidic Lakes Following Calcium Carbonate Treatment. Canadian Journal of Fisheries and Aquatic Sciences, 1989, 46, 306-314.	1.4	22
282	Effects of whole-lake base addition on thermal stratification in three acidic Adirondack lakes. Water, Air, and Soil Pollution, 1991, 59, 23.	2.4	22
283	Application of pnet-cn/chess to a spruce stand in Solling, Germany. Ecological Modelling, 1995, 83, 163-172.	2.5	22
284	Changes in the Biogeochemistry of Potassium following a Whole-Tree Harvest. Soil Science Society of America Journal, 1996, 60, 1664-1674.	2.2	22
285	Landscape influences on aluminium and dissolved organic carbon in streams draining the Hubbard Brook valley, New Hampshire, USA. Hydrological Processes, 2005, 19, 1751-1769.	2.6	22
286	Response of fish assemblages to declining acidic deposition in Adirondack Mountain lakes, 1984â€"2012. Atmospheric Environment, 2016, 146, 223-235.	4.1	22
287	Measuring mercury in wood: challenging but important. International Journal of Environmental Analytical Chemistry, 2017, 97, 456-467.	3.3	22
288	Acid rain recovery may help to mitigate the impacts of climate change on thermally sensitive fish in lakes across eastern North America. Global Change Biology, 2017, 23, 2149-2153.	9.5	22

#	Article	IF	Citations
289	Concentrations and content of mercury in bark, wood, and leaves in hardwoods and conifers in four forested sites in the northeastern USA. PLoS ONE, 2018, 13, e0196293.	2.5	22
290	Lake-watershed acidification in the North Branch of the Moose River: Introduction. Biogeochemistry, 1987, 3, 5-20.	3.5	21
291	Biogeochemistry of aluminum in a forest catchment in the Czech Republic impacted by atmospheric inputs of strong acids. Water, Air, and Soil Pollution, 1995, 85, 1831-1836.	2.4	21
292	Changes in Deposition of Phytoplankton Constituents in a Ca2+Polluted Lakeâ€. Environmental Science & Technology, 2001, 35, 3082-3088.	10.0	21
293	Evaluation of management strategies for reducing nitrogen loadings to four US estuaries. Science of the Total Environment, 2004, 333, 25-36.	8.0	21
294	Patterns of Mercury Accumulation among Seston in Lakes of the Adirondack Mountains, New York. Environmental Science & Technology, 2009, 43, 4836-4842.	10.0	21
295	Modeling and Mapping of Atmospheric Mercury Deposition in Adirondack Park, New York. PLoS ONE, 2013, 8, e59322.	2.5	21
296	Patterns of nutrient dynamics in Adirondack lakes recovering from acid deposition. Ecological Applications, 2016, 26, 1758-1770.	3.8	21
297	Long-term responses in soil solution and stream-water chemistry at Hubbard Brook after experimental addition of wollastonite. Environmental Chemistry, 2016, 13, 528.	1.5	21
298	Hydrologic flowpaths during snowmelt in forested headwater catchments under differing winter climatic and soil frost regimes. Hydrological Processes, 2016, 30, 4617-4632.	2.6	21
299	Entrainmentâ€Based Flux of Phosphorus in Onondaga Lake. Journal of Environmental Engineering, ASCE, 1986, 112, 617-622.	1.4	20
300	Aluminum chemistry downstream of a whole-tree-harvested watershed. Environmental Science & Technology, 1988, 22, 1293-1299.	10.0	20
301	A two-layer model to simulate variations in surface water chemistry draining a northern forest watershed. Water Resources Research, 2005, 41, .	4.2	20
302	Regional application of the PnETâ€BGC model to assess historical acidification of Adirondack lakes. Water Resources Research, 2008, 44, .	4.2	20
303	Patterns of Ca/Sr and 87Sr/86Sr variation before and after a whole watershed CaSiO3 addition at the Hubbard Brook Experimental Forest, USA. Geochimica Et Cosmochimica Acta, 2010, 74, 3129-3142.	3.9	20
304	Mercury concentrations in snapping turtles (Chelydra serpentina) correlate with environmental and landscape characteristics. Ecotoxicology, 2011, 20, 1599-1608.	2.4	20
305	Simulating effects of changing climate and <scp><scp>CO₂</scp></scp> emissions on soil carbon pools at the Hubbard Brook experimental forest. Global Change Biology, 2014, 20, 1643-1656.	9.5	20
306	Fine root biomass declined in response to restoration of soil calcium in a northern hardwood forest. Canadian Journal of Forest Research, 2016, 46, 738-744.	1.7	20

#	Article	IF	Citations
307	The near-term prediction of drought and flooding conditions in the northeastern United States based on extreme phases of AMO and NAO. Journal of Hydrology, 2017, 553, 130-141.	5.4	20
308	Projections of water, carbon, and nitrogen dynamics under future climate change in an old-growth Douglas-fir forest in the western Cascade Range using a biogeochemical model. Science of the Total Environment, 2019, 656, 608-624.	8.0	20
309	Mercury Emissions, Atmospheric Concentrations, and Wet Deposition across the Conterminous United States: Changes over 20 Years of Monitoring. Environmental Science and Technology Letters, 2020, 7, 376-381.	8.7	20
310	Transport and fate of trifluoroacetate in upland forest and wetland ecosystems. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 4499-4503.	7.1	19
311	Application of the forestâ€"soilâ€"water model (PnET-BGC/CHESS) to the Lysina catchment, Czech Republic. Ecological Modelling, 1999, 120, 9-30.	2.5	19
312	The promise and peril of intensiveâ€siteâ€based ecological research: insights from the Hubbard Brook ecosystem study. Ecology, 2015, 96, 885-901.	3.2	19
313	Connecting mercury science to policy: from sources to seafood. Reviews on Environmental Health, 2016, 31, 17-20.	2.4	19
314	Interactions of copper and lead with Nostoc muscorum. Water, Air, and Soil Pollution, 1985, 24, 85.	2.4	18
315	Trace element concentrations in fish from three Adirondack lakes with different pH values. Water, Air, and Soil Pollution, 1989, 44, 9-30.	2.4	18
316	Critical loads for nitrogen deposition: Case studies at two northern hardwood forests. Water, Air, and Soil Pollution, 1996, 89, 105-128.	2.4	18
317	Impact of Climate Change on Three-Dimensional Dynamic Critical Load Functions. Environmental Science & Technology, 2010, 44, 720-726.	10.0	18
318	Target loads of atmospheric sulfur and nitrogen deposition for protection of acid sensitive aquatic resources in the Adirondack Mountains, New York. Water Resources Research, 2012, 48, .	4.2	18
319	The application of an integrated biogeochemical model to simulate dynamics of vegetation, hydrology and nutrients in soil and streamwater following a whole-tree harvest of a northern hardwood forest. Science of the Total Environment, 2018, 645, 244-256.	8.0	18
320	Dimethylmercury in Floodwaters of Mercury Contaminated Rice Paddies. Environmental Science & Technology, 2019, 53, 9453-9461.	10.0	18
321	Climate change may alter mercury fluxes in northern hardwood forests. Biogeochemistry, 2019, 146, 1-16.	3.5	18
322	Porewater acid/base chemistry in near-shore regions of an acidic lake. Biogeochemistry, 1990, 11, 131.	3.5	17
323	Changes in Aluminum Concentrations and Speciation in Lakes Across the Northeastern U.S. Following Reductions in Acidic Deposition. Environmental Science & Technology, 2008, 42, 8668-8674.	10.0	17
324	The Impact of Mercury Exposure on the Common Loon (<i>Gavia immer</i>) Population in the Adirondack Park, New York, USA. Waterbirds, 2014, 37, 133-146.	0.3	17

#	Article	IF	Citations
325	An Analysis of Costs and Health Co-Benefits for a U.S. Power Plant Carbon Standard. PLoS ONE, 2016, 11, e0156308.	2.5	17
326	Differential cation exchange capacity (DCEC) of nickel supported on silica-aluminas. Journal of Catalysis, 1982, 78, 88-95.	6.2	16
327	The Adirondack Manipulation and Modeling Project (AMMP): design and preliminary results. Forest Ecology and Management, 1994, 68, 87-100.	3.2	16
328	Title is missing!. Water, Air, and Soil Pollution, 1998, 105, 417-426.	2.4	16
329	Modeling the response of soil and surface waters in the Adirondack and Catskill regions of New York to changes in atmospheric deposition and historical land disturbance. Atmospheric Environment, 2004, 38, 4099-4109.	4.1	16
330	The effects of a whole-watershed calcium addition on the chemistry of stream storm events at the Hubbard Brook Experimental Forest in NH, USA. Science of the Total Environment, 2009, 407, 5392-5401.	8.0	16
331	Red-backed salamander (Plethodon cinereus) as a bioindicator of mercury in terrestrial forests of the northeastern United States. Ecological Indicators, 2013, 34, 168-171.	6.3	16
332	Give and Take: A Watershed Acid Rain Mitigation Experiment Increases Baseflow Nitrogen Retention but Increases Stormflow Nitrogen Export. Environmental Science & Technology, 2018, 52, 13155-13165.	10.0	16
333	Changes in the concentrations and speciation of aluminum in response to an experimental addition of ammonium sulfate to the bear Brook Watershed, Maine, USA. Water, Air, and Soil Pollution, 1995, 85, 1733-1738.	2.4	15
334	The Affordable Clean Energy rule and the impact of emissions rebound on carbon dioxide and criteria air pollutant emissions. Environmental Research Letters, 2019, 14, 044018.	5.2	15
335	A national critical loads framework for atmospheric deposition effects assessment: IV. Model selection, applications, and critical loads mapping. Environmental Management, 1993, 17, 355-363.	2.7	14
336	Resuspension of Mercury-Contaminated Sediments from an In-Lake Industrial Waste Deposit. Journal of Environmental Engineering, ASCE, 2009, 135, 526-534.	1.4	14
337	Local-Scale Carbon Budgets and Mitigation Opportunities for the Northeastern United States. BioScience, 2012, 62, 23-38.	4.9	14
338	Adirondack (NY, USA) reference lakes show a pronounced shift in chrysophyte species composition since ca. 1900. Journal of Paleolimnology, 2016, 56, 349-364.	1.6	14
339	Impacts of Acidification and Potential Recovery on the Expected Value of Recreational Fisheries in Adirondack Lakes (USA). Environmental Science & Technology, 2017, 51, 742-750.	10.0	14
340	Sensitivity and uncertainty analysis of PnET-BGC to inform the development of Total Maximum Daily Loads (TMDLs) of acidity in theÂGreat Smoky Mountains National Park. Environmental Modelling and Software, 2017, 95, 156-167.	4.5	14
341	Contrasting Impacts of Photochemical and Microbial Processing on the Photoreactivity of Dissolved Organic Matter in an Adirondack Lake Watershed. Environmental Science & Technology, 2022, 56, 1688-1701.	10.0	14
342	Limestone Contactors: Steadyâ€State Design Relationships. Journal of Environmental Engineering, ASCE, 1991, 117, 339-358.	1.4	13

#	Article	IF	Citations
343	Changes in soil sulfur constituents in a forested watershed 8 years after whole-tree harvesting. Canadian Journal of Forest Research, 1999, 29, 356-364.	1.7	13
344	Comparison of an Urban Lake Targeted for Rehabilitation and a Reference Lake Based on Robotic Monitoring. Lake and Reservoir Management, 2007, 23, 11-26.	1.3	13
345	Long-term changes in aluminum fractions of drainage waters in two forest catchments with contrasting lithology. Journal of Inorganic Biochemistry, 2009, 103, 1465-1472.	3.5	13
346	Anthropogenic impacts recorded in recent sediments from Otisco Lake, New York, USA. Journal of Paleolimnology, 2010, 43, 449-462.	1.6	13
347	Interactive Effects of Air Pollution and Climate Change on Forest Ecosystems in the United States. Developments in Environmental Science, 2013, 13, 333-369.	0.5	13
348	Developing Critical Loads of Nitrate and Sulfate Deposition to Watersheds of the Great Smoky Mountains National Park, USA. Water, Air, and Soil Pollution, 2015, 226, 1.	2.4	13
349	Responses of 20 lake-watersheds in the Adirondack region of New York to historical and potential future acidic deposition. Science of the Total Environment, 2015, 511, 186-194.	8.0	13
350	Projections of water, carbon, and nitrogen dynamics under future climate change in an alpine tundra ecosystem in the southern Rocky Mountains using a biogeochemical model. Science of the Total Environment, 2019, 650, 1451-1464.	8.0	13
351	A comparative analysis of aluminum biogeochemistry in a northeastern and a southeastern forested watershed. Water Resources Research, 1990, 26, 1413-1430.	4.2	12
352	The chemical responses of acidic Woods Lake, NY to two different treatments with calcium carbonate. Water, Air, and Soil Pollution, 1991, 59, 7.	2.4	12
353	Beryllium Chemistry in the Lysina Catchment, Czech Republic. Water, Air, and Soil Pollution, 1998, 105, 409-415.	2.4	12
354	Forest Soil Sulfur in the Adirondack Mountains: Response to Chemical Manipulations. Soil Science Society of America Journal, 1998, 62, 272-280.	2.2	12
355	An evaluation of processes regulating spatial and temporal patterns in lake sulfate in the Adirondack region of New York. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	4.9	12
356	Assessment of the Extent to Which Intensively-studied Lakes are Representative of the Adirondack Region and Response to Future Changes in Acidic Deposition. Water, Air, and Soil Pollution, 2007, 185, 279-291.	2.4	12
357	Factors Affecting Acid Neutralizing Capacity in the Adirondack Region of New York:Â a Solute Mass Balance Approach. Environmental Science & Technology, 2005, 39, 4076-4081.	10.0	11
358	Reduced mercury deposition in New Hampshire from 1996 to 2002 due to changes in local sources. Environmental Pollution, 2008, 156, 1348-1356.	7.5	11
359	Predicting Acidification Recovery at the Hubbard Brook Experimental Forest, New Hampshire: Evaluation of Four Models. Environmental Science & Technology, 2010, 44, 9003-9009.	10.0	11
360	Three-dimensional spatial patterns of trace gas concentrations in baseflow-dominated agricultural streams: implications for surfaceâ€"ground water interactions and biogeochemistry. Biogeochemistry, 2012, 107, 319-338.	3.5	11

#	Article	IF	Citations
361	Changes in the long-term supply of mercury species to the upper mixed waters of a recovering lake. Environmental Pollution, 2014, 185, 314-321.	7.5	11
362	Interactive effects of climate change with nutrients, mercury, and freshwater acidification on key taxa in the North Atlantic Landscape Conservation Cooperative region. Integrated Environmental Assessment and Management, 2015, 11, 355-369.	2.9	11
363	Importance of within-lake processes in affecting the dynamics of dissolved organic carbon and dissolved organic and inorganic nitrogen in an Adirondack forested lake/watershed. Biogeosciences, 2016, 13, 2787-2801.	3.3	11
364	Primary effects of changes in meteorology vs. anthropogenic emissions on mercury wet deposition: A modeling study. Atmospheric Environment, 2019, 198, 215-225.	4.1	11
365	Measurement of the Vertical Distribution of Gaseous Elemental Mercury Concentration in Soil Pore Air of Subtropical and Temperate Forests. Environmental Science & Technology, 2021, 55, 2132-2142.	10.0	11
366	Phosphorus cycling in ionically polluted Onondaga lake, New York. Water, Air, and Soil Pollution, 1985, 24, 121.	2.4	10
367	Chemical Fluxes from Sediments in Two Adirondack Wetlands Effects of an Acidâ€Neutralization Experiment. Soil Science Society of America Journal, 2000, 64, 790-799.	2.2	10
368	Retrospective Analysis of the Response of Soil and Stream Chemistry of a Northern Forest Ecosystem to Atmospheric Emission Controls from the 1970 and 1990 Amendments of the Clean Air Act. Environmental Science & Technology, 2002, 36, 4714-4720.	10.0	10
369	Changing climate increases discharge and attenuates its seasonal distribution in the northeastern United States. Journal of Hydrology: Regional Studies, 2016, 5, 164-178.	2.4	10
370	Soilâ€"atmosphere exchange flux of total gaseous mercury (TGM) at subtropical and temperate forest catchments. Atmospheric Chemistry and Physics, 2020, 20, 16117-16133.	4.9	9
371	Controls on surface water chemistry in two lake-watersheds in the Adirondack region of New York: differences in nitrogen solute sources and sinks. Hydrological Processes, 2007, 21, 1249-1264.	2.6	8
372	Application of the PnET-BGC â€" An integrated biogeochemical model â€" To assess the surface water ANC recovery in the Adirondack region of New York under three multi-pollutant proposals. Journal of Hydrology, 2009, 378, 299-312.	5.4	8
373	Landscape Influence on the Browning of a Lake Watershed in the Adirondack Region of New York, USA. Soil Systems, 2020, 4, 50.	2.6	8
374	Watershed influences on mercury in tributaries to Lake Ontario. Ecotoxicology, 2020, 29, 1614-1626.	2.4	8
375	Experimental approach and initial forest response to a simulated ice storm experiment in a northern hardwood forest. PLoS ONE, 2020, 15, e0239619.	2.5	8
376	Lake and watershed neutralization strategies. Water, Air, and Soil Pollution, 1995, 85, 889-894.	2.4	7
377	Use of Robotic Monitoring to Assess Turbidity Patterns in Onondaga Lake, NY. Lake and Reservoir Management, 2006, 22, 199-212.	1.3	7
378	Voyage without constellation: evaluating the performance of three uncalibrated process-oriented models. Hydrology Research, 2009, 40, 503-503.	2.7	7

#	Article	IF	Citations
379	Target loads of atmospheric sulfur deposition protect terrestrial resources in the Adirondack Mountains, New York against biological impacts caused by soil acidification. Journal of Environmental Studies and Sciences, 2011, 1, 301-314.	2.0	7
380	A Fluvial Mercury Budget for Lake Ontario. Environmental Science & Technology, 2014, 48, 6107-6114.	10.0	7
381	Estimating potential productivity cobenefits for crops and trees from reduced ozone with U.S. coal power plant carbon standards. Journal of Geophysical Research D: Atmospheres, 2016, 121, 14,679.	3.3	7
382	Mercury in soils of the conterminous United States: patterns and pools. Environmental Research Letters, 2022, 17, 074030.	5.2	7
383	An estimate of the costs of liming to neutralize acidic Adirondack surface waters. Water Resources Research, 1983, 19, 1139-1149.	4.2	6
384	Evaluation of zebra mussels (<i>Dreissena polymorpha</i>) as biomonitors of mercury contamination in aquatic ecosystems. Environmental Toxicology and Chemistry, 2013, 32, 638-643.	4.3	6
385	Factors influencing critical and target loads for the acidification of lakeâ€“watersheds in the Adirondack region of New York. Biogeochemistry, 2015, 124, 353-369.	3.5	6
386	Response of mercury in an Adirondack (NY, USA) forest stream to watershed lime application. Environmental Sciences: Processes and Impacts, 2018, 20, 607-620.	3.5	6
387	Probabilistic relations between acidâ€“base chemistry and fish assemblages in streams of the western Adirondack Mountains, New York, USA. Canadian Journal of Fisheries and Aquatic Sciences, 2019, 76, 2013-2026.	1.4	6
388	Temporal trends in fish mercury concentrations in an Adirondack Lake managed with a continual predator removal program. Ecotoxicology, 2020, 29, 1762-1773.	2.4	6
389	Acidification of soil and water (reply). Nature, 1985, 313, 73-73.	27.8	5
390	THE CHEMICAL RESPONSE OF ACIDIC LAKES TO CALCIUM CARBONATE TREATMENT. Lake and Reservoir Management, 1987, 3, 404-411.	1.3	5
391	Nitrogen cycling in forested catchments: A Chapman Conference. Global Biogeochemical Cycles, 1997, 11, 613-616.	4.9	5
392	Robotic Monitoring to Assess Impacts of Zebra Mussels and Assimilative Capacity for a River. Journal of Environmental Engineering, ASCE, 2007, 133, 498-506.	1.4	5
393	Wildlife Criterion Value for the Common Loon (<i>Gavia immer</i>) in the Adirondack Park, New York, USA. Waterbirds, 2014, 37, 76-84.	0.3	5
394	Reply [to â€œComment on â€˜The episodic acidification of Adirondack Lakes during snowmeltâ€™ by Douglas A. Schaefer et al.â€]. Water Resources Research, 1992, 28, 2875-2878.	4.2	4
395	Title is missing!. Biogeochemistry, 1999, 47, 39-62.	3.5	4
396	Aluminum is more tightly bound in soil after wollastonite treatment to a forest watershed. Forest Ecology and Management, 2017, 397, 57-66.	3.2	4

#	Article	IF	Citations
397	Identifying Controls on the Spatial Variability of Foliar Nitrogen in a Large, Complex Ecosystem: the Role of Atmospheric Nitrogen Deposition in the Adirondack Park, NY, USA. J Agricultural Meteorology, 2005, 60, 1157-1160.	1.5	4
398	Modeling Thermal Stratification in Transparent Adirondack Lake. Journal of Water Resources Planning and Management - ASCE, 1989, 115, 440-456.	2.6	3
399	Device for finely resolved sampling of littoral lake regions: Design and operation. Hydrological Processes, 1993, 7, 99-104.	2.6	3
400	Mobilization and Toxicity Potential of Aluminum from Alum Floc Deposits in Kensico Reservoir, New York. Journal of the American Water Resources Association, 2014, 50, 143-152.	2.4	3
401	What works in water supply and sanitation projects in developing countries with EWB-USA. Reviews on Environmental Health, 2016, 31, 85-87.	2.4	3
402	Greater Contribution From Agricultural Sources to Future Reactive Nitrogen Deposition in the United States. Earth's Future, 2020, 8, e2019EF001453.	6.3	3
403	Dissolved Organic Matter Dynamics in Reference and Calcium Silicateâ€Treated Watersheds at Hubbard Brook Experimental Forest, NH, USA. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006352.	3.0	3
404	Water Budget Triangle: A New Conceptual Framework for Comparison of Green and Gray Infrastructure. , 2014, , .		3
405	Correspondence. Nature of bonding between metallic ions and algal cell walls. Comments.. Environmental Science & Technology, 1982, 16, 440-440.	10.0	2
406	Comment on â€œModeling the Effects of Acid Deposition: Assessment of a Lumped Parameter Model of Soil Water and Streamwater Chemistryâ€• by B. J. Cosby et al.. Water Resources Research, 1986, 22, 997-998.	4.2	2
407	Surface water chemistry. Reply to comments. Environmental Science & Technology, 1989, 23, 754-759.	10.0	2
408	A critical review of mass balance methods for calculating critical loads of nitrogen for forested ecosystems. Environmental Reviews, 1993, 1, 145-156.	4.5	2
409	Mycorrhizal weathering in base-poor forests. Nature, 2003, 423, 824-824.	27.8	2
410	Strategies for emission controls to mitigate snowmelt acidification. Geophysical Research Letters, 2005, 32, .	4.0	2
411	Effects of nitrogen deposition on nitrogen acquisition by<i>Sarracenia purpurea</i>in the Adirondack Mountains, New York, USA1. Journal of the Torrey Botanical Society, 2016, 143, 8-20.	0.3	2
412	Effects of Brownfield Remediation on Total Gaseous Mercury Concentrations in an Urban Landscape. Sensors, 2020, 20, 387.	3.8	2
413	Response: Acid Rain Revisited?. Science, 1996, 273, 294-295.	12.6	1
414	Authors response. Atmospheric Environment, 2003, 37, 135-138.	4.1	1

#	Article	IF	Citations
415	Solutes and soil in and around an in-stream wetland on the Hubbard Brook Experimental Forest, New Hampshire, USA. Wetlands, 2006, 26, 376-384.	1.5	1
416	Acidic Deposition: Sources and Ecological Effects. , 2007, , 27-58.		1
417	APPLICATION OF ILWAS TO ADIRONDACK LAKES. Lake and Reservoir Management, 1987, 3, 345-355.	1.3	0
418	Reply to Smith and Shortle: Lacking evidence of hydraulic efficiency changes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3740-E3740.	7.1	0
419	Pairing paleolimnological inference models with mechanistic water column models enhances assessment of lake water quality. Journal of Paleolimnology, 2017, 58, 119-133.	1.6	0
420	Ecological Effects of Acidic Deposition. , 2019, , 315-324.		0