Peter M Groffman

List of Publications by Year
in descending order

321	33,150	3515 90	4978 167
papers	citations	h-index	g-index

361	361	361	23129
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The urban stream syndrome: current knowledge and the search for a cure. Journal of the North American Benthological Society, 2005, 24, 706-723.	3.0	2,105
2	Biogeochemical Hot Spots and Hot Moments at the Interface of Terrestrial and Aquatic Ecosystems. Ecosystems, 2003, 6, 301-312.	1.6	1,874
3	Ecological Thresholds: The Key to Successful Environmental Management or an Important Concept with No Practical Application?. Ecosystems, 2006, 9, 1-13.	1.6	829
4	Urban ecological systems: Scientific foundations and a decade of progress. Journal of Environmental Management, 2011, 92, 331-362.	3.8	772
5	METHODS FOR MEASURING DENITRIFICATION: DIVERSE APPROACHES TO A DIFFICULT PROBLEM. , 2006, 16, 2091-2122.		757
6	From The Cover: Increased salinization of fresh water in the northeastern United States. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13517-13520.	3.3	731
7	Reducing Nitrogen Loading to the Gulf of Mexico from the Mississippi River Basin: Strategies to Counter a Persistent Ecological Problem. BioScience, 2001, 51, 373.	2.2	650
8	The changing landscape: ecosystem responses to urbanization and pollution across climatic and societal gradients. Frontiers in Ecology and the Environment, 2008, 6, 264-272.	1.9	597
9	A distinct urban biogeochemistry?. Trends in Ecology and Evolution, 2006, 21, 192-199.	4.2	557
10	Detritus Food Webs in Conventional and No-Tillage Agroecosystems. BioScience, 1986, 36, 374-380.	2.2	555
11	Challenges to incorporating spatially and temporally explicit phenomena (hotspots and hot moments) in denitrification models. Biogeochemistry, 2009, 93, 49-77.	1.7	529
12	Colder soils in a warmer world: A snow manipulation study in a northern hardwood forest ecosystem. Biogeochemistry, 2001, 56, 135-150.	1.7	501
13	Water Quality Functions of Riparian Forest Buffers in Chesapeake Bay Watersheds. Environmental Management, 1997, 21, 687-712.	1.2	497
14	Tracking Nonpoint Source Nitrogen Pollution in Human-Impacted Watersheds. Environmental Science & Technology, 2011, 45, 8225-8232.	4.6	437
15	The impacts of climate change on ecosystem structure and function. Frontiers in Ecology and the Environment, 2013, 11, 474-482.	1.9	433
16	Down by the riverside: urban riparian ecology. Frontiers in Ecology and the Environment, 2003, 1, 315-321.	1.9	423
17	Non-native invasive earthworms as agents of change in northern temperate forests. Frontiers in Ecology and the Environment, 2004, 2, 427-435.	1.9	387
18	Nitrogen Fluxes and Retention in Urban Watershed Ecosystems. Ecosystems, 2004, 7, 393.	1.6	374

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19	Ecological homogenization of urban USA. Frontiers in Ecology and the Environment, 2014, 12, 74-81.	1.9	343
20	Nitrogen Pollution in the Northeastern United States: Sources, Effects, and Management Options. BioScience, 2003, 53, 357.	2.2	335
21	Soil freezing alters fine root dynamics in a northern hardwood forest. Biogeochemistry, 2001, 56, 175-190.	1.7	327
22	Perspectives on measurement of denitrification in the field including recommended protocols for acetylene based methods. Plant and Soil, 1989, 115, 261-284.	1.8	298
23	Title is missing!. Biogeochemistry, 2001, 56, 215-238.	1.7	289
24	Beyond Urban Legends: An Emerging Framework of Urban Ecology, as Illustrated by the Baltimore Ecosystem Study. BioScience, 2008, 58, 139-150.	2.2	288
25	UNGULATE VS. LANDSCAPE CONTROL OF SOIL C AND N PROCESSES IN GRASSLANDS OF YELLOWSTONE NATIONAL PARK. Ecology, 1998, 79, 2229-2241.	1.5	281
26	Denitrification in north temperate forest soils: Spatial and temporal patterns at the landscape and seasonal scales. Soil Biology and Biochemistry, 1989, 21, 613-620.	4.2	264
27	Centennial-scale analysis of the creation and fate of reactive nitrogen in China (1910â€“2010). Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2052-2057.	3.3	264
28	The Vernal Dam: Plant-Microbe Competition for Nitrogen in Northern Hardwood Forests. Ecology, 1990, 71, 651-656.	1.5	262
29	Soil Nitrogen Cycle Processes in Urban Riparian Zones. Environmental Science & Technology, 2002, 36, 4547-4552.	4.6	260
30	Stream restoration strategies for reducing river nitrogen loads. Frontiers in Ecology and the Environment, 2008, 6, 529-538.	1.9	251
31	Title is missing!. Biogeochemistry, 2001, 56, 151-174.	1.7	248
32	Winter in northeastern North America: a critical period for ecological processes. Frontiers in Ecology and the Environment, 2005, 3, 314-322.	1.9	234
33	Effects of mild winter freezing on soil nitrogen and carbon dynamics in a northern hardwood forest. Biogeochemistry, 2001, 56, 191-213.	1.7	231
34	Interaction between Urbanization and Climate Variability Amplifies Watershed Nitrate Export in Maryland. Environmental Science & Technology, 2008, 42, 5872-5878.	4.6	229
35	Ecosystem Consequences of Exotic Earthworm Invasion of North Temperate Forests. Ecosystems, 2004, 7, 1-12.	1.6	228
36	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.	4.2	225

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37	Nitrate Dynamics in Riparian Forests: Microbial Studies. Journal of Environmental Quality, 1992, 21, 666-671.	1.0	217
38	Insect Defoliation and Nitrogen Cycling in Forests. BioScience, 2002, 52, 335.	2.2	217
39	Denitrification in north temperate forest soils: Relationships between denitrification and environmental factors at the landscape scale. Soil Biology and Biochemistry, 1989, 21, 621-626.	4.2	216
40	Influence of exotic earthworm invasion on soil organic matter, microbial biomass and denitrification potential in forest soils of the northeastern United States. Applied Soil Ecology, 1998, 9, 197-202.	2.1	190
41	Accumulation of Carbon and Nitrogen in Residential Soils with Different Land-Use Histories. Ecosystems, 2011, 14, 287-297.	1.6	180
42	Carbon and Nitrogen Cycling in Snow-Covered Environments. Geography Compass, 2011, 5, 682-699.	1.5	177
43	Influence of Earthworm Invasion on Redistribution and Retention of Soil Carbon and Nitrogen in Northern Temperate Forests. Ecosystems, 2004, 7, 13-27.	1.6	176
44	Denitrification Potential in Urban Riparian Zones. Journal of Environmental Quality, 2003, 32, 1144-1149.	1.0	175
45	Denitrification Hysteresis During Wetting and Drying Cycles in Soil. Soil Science Society of America Journal, 1988, 52, 1626-1629.	1.2	174
46	Assessing the homogenization of urban land management with an application to US residential lawn care. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4432-4437.	3.3	164
47	LANDSCAPE ATTRIBUTES AS CONTROLS ON GROITHD WATER NITRATE REMOVAL CAPACITY OF RIPARIAN ZONES. Journal of the American Water Resources Association, 2001, 37, 1457-1464.	1.0	162
48	Living in an increasingly connected world: a framework for continental-scale environmental science. Frontiers in Ecology and the Environment, 2008, 6, 229-237.	1.9	157
49	N processing within geomorphic structures in urban streams. Journal of the North American Benthological Society, 2005, 24, 613-625.	3.0	155
50	The soil N cycle: new insights and key challenges. Soil, 2015, 1, 235-256.	2.2	154
51	Restarting the conversation: challenges at the interface between ecology and society. Frontiers in Ecology and the Environment, 2010, 8, 284-291.	1.9	152
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.	0.8	148
53	Nitrate Leaching and Nitrous Oxide Flux in Urban Forests and Grasslands. Journal of Environmental Quality, 2009, 38, 1848-1860.	1.0	146
54	Nitrate Dynamics in Riparian Forests: Groundwater Studies. Journal of Environmental Quality, 1992, 21, 659-665.	1.0	139

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55	Environmental control of fine root dynamics in a northern hardwood forest. Global Change Biology, 2003, 9, 670-679.	4.2	139
56	Denitrification in Riparian Wetlands Receiving High and Low Groundwater Nitrate Inputs. Journal of Environmental Quality, 1994, 23, 917-922.	1.0	138
57	PLANTâ€“SOILâ€“MICROBIAL INTERACTIONS IN A NORTHERN HARDWOOD FOREST. Ecology, 2001, 82, 965-978.	1.5	135
58	Merging aquatic and terrestrial perspectives of nutrient biogeochemistry. Oecologia, 2003, 137, 485-501.	0.9	134
59	A Watershed Nitrogen and Phosphorus Balance: The Upper Potomac River Basin. Estuaries and Coasts, 1992, 15, 83.	1.7	133
60	Streamflow distribution of nonâ€“point source nitrogen export from urbanâ€rural catchments in the Chesapeake Bay watershed. Water Resources Research, 2008, 44, .	1.7	133
61	Earthworm abundance and nitrogen mineralization rates along an urban-rural land use gradient. Soil Biology and Biochemistry, 1997, 29, 427-430.	4.2	130
62	Soil O₂ controls denitrification rates and N₂O yield in a riparian wetland. Journal of Geophysical Research, 2012, 117, .	3.3	127
63	The engaged university: providing a platform for research that transforms society. Frontiers in Ecology and the Environment, 2010, 8, 314-321.	1.9	126
64	CH4 uptake and N availability in forest soils along an urban to rural gradient. Soil Biology and Biochemistry, 1995, 27, 281-286.	4.2	125
65	Freezing Effects on Carbon and Nitrogen Cycling in Northern Hardwood Forest Soils. Soil Science Society of America Journal, 2001, 65, 1723-1730.	1.2	122
66	Nitrogen oxide gas emissions from temperate forest soils receiving long-term nitrogen inputs. Global Change Biology, 2003, 9, 346-357.	4.2	122
67	Snow depth, soil freezing and nitrogen cycling in a northern hardwood forest landscape. Biogeochemistry, 2011, 102, 223-238.	1.7	122
68	Litter as a regulator of N and C dynamics in macrophytic patches in Negev desert soils. Soil Biology and Biochemistry, 1996, 28, 39-46.	4.2	121
69	Patchiness in Microbial Nitrogen Transformations in Groundwater in a Riparian Forest. Journal of Environmental Quality, 1998, 27, 156-164.	1.0	120
70	Climate Variation and Soil Carbon and Nitrogen Cycling Processes in a Northern Hardwood Forest. Ecosystems, 2009, 12, 927-943.	1.6	117
71	Plant rhizospheric N processes: what we don't know and why we should care. Ecology, 2009, 90, 1512-1519.	1.5	117
72	Long-Term Integrated Studies Show Complex and Surprising Effects of Climate Change in the Northern Hardwood Forest. BioScience, 2012, 62, 1056-1066.	2.2	117

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73	Land use context and natural soil controls on plant community composition and soil nitrogen and carbon dynamics in urban and rural forests. Forest Ecology and Management, 2006, 236, 177-192.	1.4	115
74	Denitrification Potential in Stormwater Control Structures and Natural Riparian Zones in an Urban Landscape. Environmental Science & Technology, 2012, 46, 10909-10917.	4.6	113
75	Carbon cycling in soil. Frontiers in Ecology and the Environment, 2004, 2, 522-528.	1.9	111
76	Denitrification in Grass and Forest Vegetated Filter Strips. Journal of Environmental Quality, 1991, 20, 671-674.	1.0	108
77	Microbial Nitrate Processing in Shallow Groundwater in a Riparian Forest. Journal of Environmental Quality, 1996, 25, 1309-1316.	1.0	108
78	Nitrogen fixation in macro- and microphytic patches in the Negev desert. Soil Biology and Biochemistry, 1998, 30, 449-454.	4.2	108
79	Relationships between denitrification, CO2 production and air-filled porosity in soils of different texture and drainage. Soil Biology and Biochemistry, 1991, 23, 299-302.	4.2	107
80	Effects of soil freezing on fine roots in a northern hardwood forest. Canadian Journal of Forest Research, 2008, 38, 82-91.	0.8	106
81	Nitrogen Dynamics in Ice Storm-Damaged Forest Ecosystems: Implications for Nitrogen Limitation Theory. Ecosystems, 2003, 6, 431-443.	1.6	105
82	Influence of natural and novel organic carbon sources on denitrification in forest, degraded urban, and restored streams. Ecological Monographs, 2012, 82, 449-466.	2.4	105
83	Nitrogen uptake and denitrification in restored and unrestored streams in urban Maryland, USA. Aquatic Sciences, 2009, 71, 411-424.	0.6	104
84	Exotic Earthworm Invasion and Microbial Biomass in Temperate Forest Soils. Ecosystems, 2004, 7, 45-54.	1.6	103
85	Land use change and soil nutrient transformations in the Los Haitises region of the Dominican Republic. Soil Biology and Biochemistry, 2005, 37, 215-225.	4.2	100
86	Evidence, causes, and consequences of declining nitrogen availability in terrestrial ecosystems. Science, 2022, 376, eabh3767.	6.0	100
87	Evaluating annual nitrous oxide fluxes at the ecosystem scale. Global Biogeochemical Cycles, 2000, 14, 1061-1070.	1.9	99
88	Denitrification Potential, Root Biomass, and Organic Matter in Degraded and Restored Urban Riparian Zones. Restoration Ecology, 2010, 18, 113-120.	1.4	99
89	In Situ Pushâ€“Pull Method to Determine Ground Water Denitrification in Riparian Zones. Journal of Environmental Quality, 2002, 31, 1017-1024.	1.0	98
90	Denitrification in a Tallgrass Prairie Landscape. Ecology, 1993, 74, 855-862.	1.5	96

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91	Grass species and soil type effects on microbial biomass and activity. Plant and Soil, 1996, 183, 61-67.	1.8	96
92	Nitrogen dynamics in conventional and no-tillage agroecosystems with inorganic fertilizer or legume nitrogen inputs. Plant and Soil, 1987, 97, 315-332.	1.8	95
93	The fate of nitrogen in gypsy moth frass deposited to an oak forest floor. Oecologia, 2002, 131, 444-452.	0.9	93
94	Earthworm Invasion, Fine-root Distributions, and Soil Respiration in North Temperate Forests. Ecosystems, 2004, 7, 55-62.	1.6	93
95	Variation in Microbial Biomass and Activity in Four Different Wetland Types. Soil Science Society of America Journal, 1996, 60, 622-629.	1.2	89
96	Soil and Sediment Biodiversity. BioScience, 1999, 49, 139.	2.2	88
97	Nitrogen Deposition in and near an Urban Ecosystem. Environmental Science & Technology, 2013, 47, 6047-6051.	4.6	88
98	Winter climate change affects growingâ€season soil microbial biomass and activity in northern hardwood forests. Global Change Biology, 2014, 20, 3568-3577.	4.2	87
99	Declines in methane uptake in forest soils. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8587-8590.	3.3	85
100	Nitrous oxide production in riparian zones and groundwater. Nutrient Cycling in Agroecosystems, 1998, 52, 179-186.	1.1	83
101	DYNAMICS OF NITROGEN AND DISSOLVED ORGANIC CARBON AT THE HUBBARD BROOK EXPERIMENTAL FOREST. Ecology, 2007, 88, 1153-1166.	1.5	83
102	Spatial and Temporal Variation in Groundwater Nitrate Removal in a Riparian Forest. Journal of Environmental Quality, 1995, 24, 691-699.	1.0	82
103	Effects of Exotic Earthworms on Soil Phosphorus Cycling in Two Broadleaf Temperate Forests. Ecosystems, 2004, 7, 28-44.	1.6	82
104	Continental-scale homogenization of residential lawn plant communities. Landscape and Urban Planning, 2017, 165, 54-63.	3.4	82
105	Nitrification and Denitrification in Conventional and Noâ€Tillage Soils. Soil Science Society of America Journal, 1985, 49, 329-334.	1.2	81
106	Leaching of dissolved organic carbon, dissolved organic nitrogen, and other solutes from coarse woody debris and litter in a mixed forest in New York State. Biogeochemistry, 2005, 74, 257-282.	1.7	80
107	Nitrogen oligotrophication in northern hardwood forests. Biogeochemistry, 2018, 141, 523-539.	1.7	80
108	Gross nitrogen process rates in temperate forest soils exhibiting symptoms of nitrogen saturation. Forest Ecology and Management, 2004, 196, 129-142.	1.4	79

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109	The Contribution of Crab Burrow Excavation to Carbon Availability in Surficial Salt-marsh Sediments. Ecosystems, 2006, 9, 647-658.	1.6	79
110	Calcium Additions and Microbial Nitrogen Cycle Processes in a Northern Hardwood Forest. Ecosystems, 2006, 9, 1289-1305.	1.6	77
111	A social-ecological-technological systems framework for urban ecosystem services. One Earth, 2022, 5, 505-518.	3.6	77
112	Factors Regulating Denitrification in a Riparian Wetland. Soil Science Society of America Journal, 2010, 74, 1826-1833.	1.2	76
113	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.	4.6	76
114	Methane Uptake in Urban Forests and Lawns. Environmental Science & Technology, 2009, 43, 5229-5235.	4.6	75
115	Invasive earthworm species and nitrogen cycling in remnant forest patches. Applied Soil Ecology, 2006, 32, 54-62.	2.1	74
116	Denitrification in Alluvial Wetlands in an Urban Landscape. Journal of Environmental Quality, 2011, 40, 634-646.	1.0	74
117	Dynamics of nitrate concentrationâ€discharge patterns in an urban watershed. Water Resources Research, 2017, 53, 7349-7365.	1.7	74
118	Solving the global nitrogen problem: it's a gas!. Frontiers in Ecology and the Environment, 2008, 6, 199-206.	1.9	72
119	Nitrogen Dynamics at the Groundwaterâ€“Surface Water Interface of a Degraded Urban Stream. Journal of Environmental Quality, 2010, 39, 810-823.	1.0	72
120	Nitrogen supply modulates the effect of changes in dryingâ€“rewetting frequency on soil C and N cycling and greenhouse gas exchange. Global Change Biology, 2015, 21, 3854-3863.	4.2	72
121	Earthworms increase soil microbial biomass carrying capacity and nitrogen retention in northern hardwood forests. Soil Biology and Biochemistry, 2015, 87, 51-58.	4.2	71
122	Transport of Carbon and Nitrogen Between Litter and Soil Organic Matter in a Northern Hardwood Forest. Ecosystems, 2011, 14, 326-340.	1.6	69
123	Ecological homogenization of residential macrosystems. Nature Ecology and Evolution, 2017, 1, 191.	3.4	69
124	Homogenization of plant diversity, composition, and structure in North American urban yards. Ecosphere, 2018, 9, e02105.	1.0	68
125	Climate change decreases nitrogen pools and mineralization rates in northern hardwood forests. Ecosphere, 2016, 7, e01251.	1.0	67
126	â€œAccidentalâ€•urban wetlands: ecosystem functions in unexpected places. Frontiers in Ecology and the Environment, 2017, 15, 248-256.	1.9	65

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127	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.	4.6	64
128	Spatial Distribution of Carbon in the Subsurface of Riparian Zones. Soil Science Society of America Journal, 2009, 73, 1733-1740.	1.2	63
129	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.	4.2	63
130	Moving Towards a New Urban Systems Science. Ecosystems, 2017, 20, 38-43.	1.6	63
131	Towards closing the watershed nitrogen budget: Spatial and temporal scaling of denitrification. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1105-1119.	1.3	62
132	Terrestrial denitrification: challenges and opportunities. Ecological Processes, 2012, 1, .	1.6	60
133	Urban ecology: advancing science and society. Frontiers in Ecology and the Environment, 2014, 12, 574-581.	1.9	60
134	Sideâ€swiped: ecological cascades emanating from earthworm invasions. Frontiers in Ecology and the Environment, 2019, 17, 502-510.	1.9	60
135	A potential tipping point in tropical agriculture: Avoiding rapid increases in nitrous oxide fluxes from agricultural intensification in Kenya. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 938-951.	1.3	59
136	Chemical, Physical, and Biological Characteristics of Urban Soils. Agronomy, 0, , 119-152.	0.2	59
137	Denitrification capacity in a subterranean estuary below a Rhode Island fringing salt marsh. Estuaries and Coasts, 2005, 28, 896-908.	1.7	58
138	Effects of Land Use and Vegetation Cover on Soil Temperature in an Urban Ecosystem. Soil Science Society of America Journal, 2010, 74, 469-480.	1.2	58
139	Isotopic signals of summer denitrification in a northern hardwood forested catchment. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16413-16418.	3.3	58
140	Microbially available carbon in buried riparian soils in a glaciated landscape. Soil Biology and Biochemistry, 2008, 40, 85-96.	4.2	57
141	Accumulation of arsenic and lead in garden-grown vegetables: Factors and mitigation strategies. Science of the Total Environment, 2018, 640-641, 273-283.	3.9	55
142	Exploring carbon flow through the root channel in a temperate forest soil food web. Soil Biology and Biochemistry, 2014, 76, 45-52.	4.2	54
143	Mechanisms driving the seasonality of catchment scale nitrate export: Evidence for riparian ecohydrologic controls. Water Resources Research, 2015, 51, 3982-3997.	1.7	54
144	Soil denitrification fluxes from three northeastern North American forests across a range of nitrogen deposition. Oecologia, 2015, 177, 17-27.	0.9	54

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145	Chloride Effects on Nitrogen Dynamics in Forested and Suburban Stream Debris Dams. Journal of Environmental Quality, 2006, 35, 2425-2432.	1.0	53
146	Denitrification in Suburban Lawn Soils. Journal of Environmental Quality, 2011, 40, 1932-1940.	1.0	52
147	Comparing Microbial Parameters in Natural and Constructed Wetlands. Journal of Environmental Quality, 1994, 23, 298-305.	1.0	51
148	High Nitrate Retention during Winter in Soils of the Hubbard Brook Experimental Forest. Ecosystems, 2007, 10, 217-225.	1.6	51
149	Direct flux and 15N tracer methods for measuring denitrification in forest soils. Biogeochemistry, 2014, 117, 359-373.	1.7	51
150	Soil microbial biomass and activity in tropical riparian forests. Soil Biology and Biochemistry, 2001, 33, 1339-1348.	4.2	50
151	Landscape versus ungulate control of gross mineralization and gross nitrification in semi-arid grasslands of Yellowstone National Park. Soil Biology and Biochemistry, 2002, 34, 1691-1699.	4.2	49
152	Effects of Phragmites australis removal on marsh nutrient cycling. Wetlands Ecology and Management, 2003, 11, 157-165.	0.7	49
153	Soil nitrogen cycling under litter and coarse woody debris in a mixed forest in New York State. Soil Biology and Biochemistry, 2005, 37, 2159-2162.	4.2	49
154	Phosphate additions have no effect on microbial biomass and activity in a northern hardwood forest. Soil Biology and Biochemistry, 2011, 43, 2441-2449.	4.2	49
155	Wetland Denitrification: Influence of Site Quality and Relationships with Wetland Delineation Protocols. Soil Science Society of America Journal, 1997, 61, 323-329.	1.2	48
156	Soil Denitrification Fluxes in a Northern Hardwood Forest: The Importance of Snowmelt and Implications for Ecosystem N Budgets. Ecosystems, 2015, 18, 520-532.	1.6	48
157	Regional scale analysis of denitrification in north temperate forest soils. Landscape Ecology, 1992, 7, 45-53.	1.9	47
158	Denitrification Enzyme Activity of Fringe Salt Marshes in New England (USA). Journal of Environmental Quality, 2004, 33, 1144.	1.0	47
159	Variable nitrate concentrationâ€“discharge relationships in a forested watershed. Hydrological Processes, 2017, 31, 1817-1824.	1.1	47
160	Muskrat (Ondatra zibethicus) Disturbance to Vegetation and Potential Net Nitrogen Mineralization and Nitrification Rates in a Freshwater Tidal Marsh. American Midland Naturalist, 2000, 143, 53-63.	0.2	46
161	The role of interface organizations in science communication and understanding. Frontiers in Ecology and the Environment, 2010, 8, 306-313.	1.9	46
162	Winter climate change effects on soil C and N cycles in urban grasslands. Global Change Biology, 2013, 19, 2826-2837.	4.2	46

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163	Potential ecological impacts of climate intervention by reflecting sunlight to cool Earth. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	46
164	Learning to roll with the punches: adaptive experimentation in human-dominated systems. Frontiers in Ecology and the Environment, 2004, 2, 467-474.	1.9	45
165	Macroâ€•and Micromorphology of Subsurface Carbon in Riparian Zone Soils. Soil Science Society of America Journal, 2005, 69, 1320-1329.	1.2	45
166	Experimental snowpack reduction alters organic matter and net N mineralization potential of soil macroaggregates in a northern hardwood forest. Biology and Fertility of Soils, 2008, 45, 1-10.	2.3	44
167	Stimulating Nitrate Removal Processes of Restored Wetlands. Environmental Science & Technology, 2014, 48, 7365-7373.	4.6	43
168	Recovery and resilience of urban stream metabolism following Superstorm Sandy and other floods. Ecosphere, 2017, 8, e01776.	1.0	43
169	Shallow Groundwater Denitrification in Riparian Zones of a Headwater Agricultural Landscape. Journal of Environmental Quality, 2014, 43, 732-744.	1.0	42
170	Using a soil topographic index to distribute denitrification fluxes across a northeastern headwater catchment. Journal of Hydrology, 2015, 522, 123-134.	2.3	42
171	The limits of lead (Pb) phytoextraction and possibilities of phytostabilization in contaminated soil: a critical review. International Journal of Phytoremediation, 2020, 22, 916-930.	1.7	42
172	Constructed soils for mitigating lead (Pb) exposure and promoting urban community gardening: The New York City Clean Soil Bank pilot study. Landscape and Urban Planning, 2018, 175, 184-194.	3.4	41
173	Soil Microbes Trade-Off Biogeochemical Cycling for Stress Tolerance Traits in Response to Year-Round Climate Change. Frontiers in Microbiology, 2020, 11, 616.	1.5	41
174	Nitrification and denitrification in soil: A comparison of enzyme assay, incubation and enumeration methods. Plant and Soil, 1987, 97, 445-450.	1.8	40
175	Invasive Plant Species and Microbial Processes in a Tidal Freshwater Marsh. Journal of Environmental Quality, 1999, 28, 1252-1257.	1.0	39
176	â€œHotspotsâ€•and â€œHot Momentsâ€•of Denitrification in Urban Brownfield Wetlands. Ecosystems, 2014, 17, 1121-1137.	1.6	39
177	Soil emissions of nitric oxide in two forest watersheds subjected to elevated N inputs. Forest Ecology and Management, 2004, 196, 335-349.	1.4	38
178	Long-Term Ecological Research and Evolving Frameworks of Disturbance Ecology. BioScience, 2020, 70, 141-156.	2.2	37
179	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.	1.2	36
180	Beaver Ponds: Resurgent Nitrogen Sinks for Rural Watersheds in the Northeastern United States. Journal of Environmental Quality, 2015, 44, 1684-1693.	1.0	36

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181	Green Infrastructure Design Influences Communities of Urban Soil Bacteria. Frontiers in Microbiology, 2019, 10, 982.	1.5	36
182	Landscape Patterns of Net Nitrification in a Northern Hardwood-Conifer Forest. Soil Science Society of America Journal, 2003, 67, 527.	1.2	36
183	Using constructed soils for green infrastructure â€“ challenges and limitations. Soil, 2020, 6, 413-434.	2.2	36
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