

Peter M Groffman

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319
papers

26,797
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156
g-index

361
ext. papers

29,645
ext. citations

5.1
avg, IF

6.84
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 319 | The urban stream syndrome: current knowledge and the search for a cure. <i>Journal of the North American Benthological Society</i> , 2005 , 24, 706-723 | | 1673 |
| 318 | Biogeochemical Hot Spots and Hot Moments at the Interface of Terrestrial and Aquatic Ecosystems. <i>Ecosystems</i> , 2003 , 6, 301-312 | 3.9 | 1531 |
| 317 | Ecological Thresholds: The Key to Successful Environmental Management or an Important Concept with No Practical Application?. <i>Ecosystems</i> , 2006 , 9, 1-13 | 3.9 | 684 |
| 316 | Methods for measuring denitrification: diverse approaches to a difficult problem 2006 , 16, 2091-122 | | 644 |
| 315 | Urban ecological systems: scientific foundations and a decade of progress. <i>Journal of Environmental Management</i> , 2011 , 92, 331-62 | 7.9 | 601 |
| 314 | Increased salinization of fresh water in the northeastern United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 13517-20 | 11.5 | 595 |
| 313 | Reducing Nitrogen Loading to the Gulf of Mexico from the Mississippi River Basin: Strategies to Counter a Persistent Ecological Problem. <i>BioScience</i> , 2001 , 51, 373 | 5.7 | 519 |
| 312 | Detritus Food Webs in Conventional and No-Tillage Agroecosystems. <i>BioScience</i> , 1986 , 36, 374-380 | 5.7 | 484 |
| 311 | The changing landscape: ecosystem responses to urbanization and pollution across climatic and societal gradients. <i>Frontiers in Ecology and the Environment</i> , 2008 , 6, 264-272 | 5.5 | 477 |
| 310 | A distinct urban biogeochemistry?. <i>Trends in Ecology and Evolution</i> , 2006 , 21, 192-9 | 10.9 | 476 |
| 309 | Challenges to incorporating spatially and temporally explicit phenomena (hotspots and hot moments) in denitrification models. <i>Biogeochemistry</i> , 2009 , 93, 49-77 | 3.8 | 465 |
| 308 | Colder soils in a warmer world: A snow manipulation study in a northern hardwood forest ecosystem. <i>Biogeochemistry</i> , 2001 , 56, 135-150 | 3.8 | 435 |
| 307 | Water Quality Functions of Riparian Forest Buffers in Chesapeake Bay Watersheds. <i>Environmental Management</i> , 1997 , 21, 687-712 | 3.1 | 434 |
| 306 | Tracking nonpoint source nitrogen pollution in human-impacted watersheds. <i>Environmental Science & Technology</i> , 2011 , 45, 8225-32 | 10.3 | 355 |
| 305 | Down by the riverside: urban riparian ecology. <i>Frontiers in Ecology and the Environment</i> , 2003 , 1, 315-321 | 5.5 | 339 |
| 304 | Nitrogen Fluxes and Retention in Urban Watershed Ecosystems. <i>Ecosystems</i> , 2004 , 7, 393 | 3.9 | 326 |
| 303 | Non-native invasive earthworms as agents of change in northern temperate forests. <i>Frontiers in Ecology and the Environment</i> , 2004 , 2, 427-435 | 5.5 | 308 |

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| 302 | The impacts of climate change on ecosystem structure and function. <i>Frontiers in Ecology and the Environment</i> , 2013 , 11, 474-482 | 5.5 | 301 |
| 301 | Nitrogen Pollution in the Northeastern United States: Sources, Effects, and Management Options. <i>BioScience</i> , 2003 , 53, 357 | 5.7 | 300 |
| 300 | Soil freezing alters fine root dynamics in a northern hardwood forest. <i>Biogeochemistry</i> , 2001 , 56, 175-190.8 | 284 | |
| 299 | Perspectives on measurement of denitrification in the field including recommended protocols for acetylene based methods. <i>Plant and Soil</i> , 1989 , 115, 261-284 | 4.2 | 269 |
| 298 | UNGULATE VS. LANDSCAPE CONTROL OF SOIL C AND N PROCESSES IN GRASSLANDS OF YELLOWSTONE NATIONAL PARK. <i>Ecology</i> , 1998 , 79, 2229-2241 | 4.6 | 252 |
| 297 | Beyond Urban Legends: An Emerging Framework of Urban Ecology, as Illustrated by the Baltimore Ecosystem Study. <i>BioScience</i> , 2008 , 58, 139-150 | 5.7 | 247 |
| 296 | Effects of soil freezing disturbance on soil solution nitrogen, phosphorus, and carbon chemistry in a northern hardwood ecosystem. <i>Biogeochemistry</i> , 2001 , 56, 215-238 | 3.8 | 245 |
| 295 | Ecological homogenization of urban USA. <i>Frontiers in Ecology and the Environment</i> , 2014 , 12, 74-81 | 5.5 | 244 |
| 294 | Denitrification in north temperate forest soils: Spatial and temporal patterns at the landscape and seasonal scales. <i>Soil Biology and Biochemistry</i> , 1989 , 21, 613-620 | 7.5 | 228 |
| 293 | Soil nitrogen cycle processes in urban riparian zones. <i>Environmental Science & Technology</i> , 2002 , 36, 4547-52 | 10.3 | 226 |
| 292 | Snow depth manipulation and its influence on soil frost and water dynamics in a northern hardwood forest. <i>Biogeochemistry</i> , 2001 , 56, 151-174 | 3.8 | 212 |
| 291 | Centennial-scale analysis of the creation and fate of reactive nitrogen in China (1910-2010). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 2052-7 | 11.5 | 211 |
| 290 | Stream restoration strategies for reducing river nitrogen loads. <i>Frontiers in Ecology and the Environment</i> , 2008 , 6, 529-538 | 5.5 | 211 |
| 289 | The Vernal Dam: Plant-Microbe Competition for Nitrogen in Northern Hardwood Forests. <i>Ecology</i> , 1990 , 71, 651-656 | 4.6 | 209 |
| 288 | Effects of mild winter freezing on soil nitrogen and carbon dynamics in a northern hardwood forest. <i>Biogeochemistry</i> , 2001 , 56, 191-213 | 3.8 | 206 |
| 287 | Winter in northeastern North America: a critical period for ecological processes. <i>Frontiers in Ecology and the Environment</i> , 2005 , 3, 314-322 | 5.5 | 204 |
| 286 | Interaction between urbanization and climate variability amplifies watershed nitrate export in Maryland. <i>Environmental Science & Technology</i> , 2008 , 42, 5872-8 | 10.3 | 201 |
| 285 | Ecosystem Consequences of Exotic Earthworm Invasion of North Temperate Forests. <i>Ecosystems</i> , 2004 , 7, 1-12 | 3.9 | 194 |

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| 284 | Denitrification in north temperate forest soils: Relationships between denitrification and environmental factors at the landscape scale. <i>Soil Biology and Biochemistry</i> , 1989 , 21, 621-626 | 7.5 | 192 |
| 283 | Snow depth, soil freezing, and fluxes of carbon dioxide, nitrous oxide and methane in a northern hardwood forest. <i>Global Change Biology</i> , 2006 , 12, 1748-1760 | 11.4 | 187 |
| 282 | Insect Defoliation and Nitrogen Cycling in Forests. <i>BioScience</i> , 2002 , 52, 335 | 5.7 | 182 |
| 281 | Nitrate Dynamics in Riparian Forests: Microbial Studies. <i>Journal of Environmental Quality</i> , 1992 , 21, 666-674 | 5.7 | 182 |
| 280 | Influence of exotic earthworm invasion on soil organic matter, microbial biomass and denitrification potential in forest soils of the northeastern United States. <i>Applied Soil Ecology</i> , 1998 , 9, 197-202 | 5 | 171 |
| 279 | Denitrification potential in urban riparian zones. <i>Journal of Environmental Quality</i> , 2003 , 32, 1144-9 | 3.4 | 153 |
| 278 | Denitrification Hysteresis During Wetting and Drying Cycles in Soil. <i>Soil Science Society of America Journal</i> , 1988 , 52, 1626-1629 | 2.5 | 148 |
| 277 | Influence of Earthworm Invasion on Redistribution and Retention of Soil Carbon and Nitrogen in Northern Temperate Forests. <i>Ecosystems</i> , 2004 , 7, 13-27 | 3.9 | 146 |
| 276 | LANDSCAPE ATTRIBUTES AS CONTROLS ON GROITHD WATER NITRATE REMOVAL CAPACITY OF RIPARIAN ZONES1. <i>Journal of the American Water Resources Association</i> , 2001 , 37, 1457-1464 | 2.1 | 146 |
| 275 | Accumulation of Carbon and Nitrogen in Residential Soils with Different Land-Use Histories. <i>Ecosystems</i> , 2011 , 14, 287-297 | 3.9 | 144 |
| 274 | Carbon and Nitrogen Cycling in Snow-Covered Environments. <i>Geography Compass</i> , 2011 , 5, 682-699 | 2.4 | 142 |
| 273 | Assessing the homogenization of urban land management with an application to US residential lawn care. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4432-7 | 11.5 | 139 |
| 272 | N processing within geomorphic structures in urban streams. <i>Journal of the North American Benthological Society</i> , 2005 , 24, 613-625 | | 139 |
| 271 | Living in an increasingly connected world: a framework for continental-scale environmental science. <i>Frontiers in Ecology and the Environment</i> , 2008 , 6, 229-237 | 5.5 | 128 |
| 270 | Consequences of climate change for biogeochemical cycling in forests of northeastern North America This 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.. <i>Canadian Journal of Forest Research</i> , 2009 , 39, 264-284 | 1.9 | 126 |
| 269 | Restarting the conversation: challenges at the interface between ecology and society. <i>Frontiers in Ecology and the Environment</i> , 2010 , 8, 284-291 | 5.5 | 125 |
| 268 | Nitrate leaching and nitrous oxide flux in urban forests and grasslands. <i>Journal of Environmental Quality</i> , 2009 , 38, 1848-60 | 3.4 | 122 |
| 267 | Environmental control of fine root dynamics in a northern hardwood forest. <i>Global Change Biology</i> , 2003 , 9, 670-679 | 11.4 | 122 |

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| 266 | Nitrate Dynamics in Riparian Forests: Groundwater Studies. <i>Journal of Environmental Quality</i> , 1992 , 21, 659-665 | 3.4 | 120 |
| 265 | A watershed nitrogen and phosphorus balance: The upper Potomac River basin. <i>Estuaries and Coasts</i> , 1992 , 15, 83 | | 119 |
| 264 | Denitrification in Riparian Wetlands Receiving High and Low Groundwater Nitrate Inputs. <i>Journal of Environmental Quality</i> , 1994 , 23, 917-922 | 3.4 | 117 |
| 263 | The soil N cycle: new insights and key challenges. <i>Soil</i> , 2015 , 1, 235-256 | 5.8 | 116 |
| 262 | Merging aquatic and terrestrial perspectives of nutrient biogeochemistry. <i>Oecologia</i> , 2003 , 137, 485-501 | 2.9 | 115 |
| 261 | PLANT-BOIL-MICROBIAL INTERACTIONS IN A NORTHERN HARDWOOD FOREST. <i>Ecology</i> , 2001 , 82, 965-978 | 3.6 | 115 |
| 260 | Earthworm abundance and nitrogen mineralization rates along an urban-rural land use gradient. <i>Soil Biology and Biochemistry</i> , 1997 , 29, 427-430 | 7.5 | 114 |
| 259 | Litter as a regulator of N and C dynamics in macrophytic patches in Negev desert soils. <i>Soil Biology and Biochemistry</i> , 1996 , 28, 39-46 | 7.5 | 113 |
| 258 | Patchiness in Microbial Nitrogen Transformations in Groundwater in a Riparian Forest. <i>Journal of Environmental Quality</i> , 1998 , 27, 156-164 | 3.4 | 111 |
| 257 | CH ₄ uptake and N availability in forest soils along an urban to rural gradient. <i>Soil Biology and Biochemistry</i> , 1995 , 27, 281-286 | 7.5 | 110 |
| 256 | Nitrogen oxide gas emissions from temperate forest soils receiving long-term nitrogen inputs. <i>Global Change Biology</i> , 2003 , 9, 346-357 | 11.4 | 109 |
| 255 | Streamflow distribution of nonpoint source nitrogen export from urban-rural catchments in the Chesapeake Bay watershed. <i>Water Resources Research</i> , 2008 , 44, | 5.4 | 108 |
| 254 | Long-Term Integrated Studies Show Complex and Surprising Effects of Climate Change in the Northern Hardwood Forest. <i>BioScience</i> , 2012 , 62, 1056-1066 | 5.7 | 101 |
| 253 | Plant rhizospheric N processes: what we don't know and why we should care. <i>Ecology</i> , 2009 , 90, 1512-9 | 4.6 | 101 |
| 252 | Microbial Nitrate Processing in Shallow Groundwater in a Riparian Forest. <i>Journal of Environmental Quality</i> , 1996 , 25, 1309-1316 | 3.4 | 100 |
| 251 | Nitrogen fixation in macro- and microphytic patches in the Negev desert. <i>Soil Biology and Biochemistry</i> , 1998 , 30, 449-454 | 7.5 | 99 |
| 250 | Land use context and natural soil controls on plant community composition and soil nitrogen and carbon dynamics in urban and rural forests. <i>Forest Ecology and Management</i> , 2006 , 236, 177-192 | 3.9 | 99 |
| 249 | The engaged university: providing a platform for research that transforms society. <i>Frontiers in Ecology and the Environment</i> , 2010 , 8, 314-321 | 5.5 | 98 |

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| 248 | Snow depth, soil freezing and nitrogen cycling in a northern hardwood forest landscape. <i>Biogeochemistry</i> , 2011 , 102, 223-238 | 3.8 | 97 |
| 247 | Climate Variation and Soil Carbon and Nitrogen Cycling Processes in a Northern Hardwood Forest. <i>Ecosystems</i> , 2009 , 12, 927-943 | 3.9 | 97 |
| 246 | Freezing Effects on Carbon and Nitrogen Cycling in Northern Hardwood Forest Soils. <i>Soil Science Society of America Journal</i> , 2001 , 65, 1723-1730 | 2.5 | 96 |
| 245 | Soil O ₂ controls denitrification rates and N ₂ O yield in a riparian wetland. <i>Journal of Geophysical Research</i> , 2012 , 117, | | 95 |
| 244 | Nitrogen uptake and denitrification in restored and unrestored streams in urban Maryland, USA. <i>Aquatic Sciences</i> , 2009 , 71, 411-424 | 2.5 | 95 |
| 243 | Relationships between denitrification, CO ₂ production and air-filled porosity in soils of different texture and drainage. <i>Soil Biology and Biochemistry</i> , 1991 , 23, 299-302 | 7.5 | 95 |
| 242 | Denitrification potential in stormwater control structures and natural riparian zones in an urban landscape. <i>Environmental Science & Technology</i> , 2012 , 46, 10909-17 | 10.3 | 94 |
| 241 | Nitrogen Dynamics in Ice Storm-Damaged Forest Ecosystems: Implications for Nitrogen Limitation Theory. <i>Ecosystems</i> , 2003 , 6, 431-443 | 3.9 | 94 |
| 240 | Denitrification in Grass and Forest Vegetated Filter Strips. <i>Journal of Environmental Quality</i> , 1991 , 20, 671-674 | 3.4 | 94 |
| 239 | Effects of soil freezing on fine roots in a northern hardwood forest. <i>Canadian Journal of Forest Research</i> , 2008 , 38, 82-91 | 1.9 | 93 |
| 238 | Carbon cycling in soil. <i>Frontiers in Ecology and the Environment</i> , 2004 , 2, 522-528 | 5.5 | 92 |
| 237 | Influence of natural and novel organic carbon sources on denitrification in forest, degraded urban, and restored streams. <i>Ecological Monographs</i> , 2012 , 82, 449-466 | 9 | 91 |
| 236 | In situ push-pull method to determine ground water denitrification in riparian zones. <i>Journal of Environmental Quality</i> , 2002 , 31, 1017-24 | 3.4 | 91 |
| 235 | Denitrification Potential, Root Biomass, and Organic Matter in Degraded and Restored Urban Riparian Zones. <i>Restoration Ecology</i> , 2010 , 18, 113-120 | 3.1 | 90 |
| 234 | Exotic Earthworm Invasion and Microbial Biomass in Temperate Forest Soils. <i>Ecosystems</i> , 2004 , 7, 45-54 | 3.9 | 85 |
| 233 | Nitrogen dynamics in conventional and no-tillage agroecosystems with inorganic fertilizer or legume nitrogen inputs. <i>Plant and Soil</i> , 1987 , 97, 315-332 | 4.2 | 85 |
| 232 | Evaluating annual nitrous oxide fluxes at the ecosystem scale. <i>Global Biogeochemical Cycles</i> , 2000 , 14, 1061-1070 | 5.9 | 84 |
| 231 | The fate of nitrogen in gypsy moth frass deposited to an oak forest floor. <i>Oecologia</i> , 2002 , 131, 444-452 | 2.9 | 83 |

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| 230 | Land use change and soil nutrient transformations in the Los Haitises region of the Dominican Republic. <i>Soil Biology and Biochemistry</i> , 2005 , 37, 215-225 | 7.5 | 83 |
| 229 | Grass species and soil type effects on microbial biomass and activity. <i>Plant and Soil</i> , 1996 , 183, 61-67 | 4.2 | 83 |
| 228 | Variation in Microbial Biomass and Activity in Four Different Wetland Types. <i>Soil Science Society of America Journal</i> , 1996 , 60, 622-629 | 2.5 | 76 |
| 227 | Dynamics of nitrogen and dissolved organic carbon at the Hubbard brook experimental forest. <i>Ecology</i> , 2007 , 88, 1153-66 | 4.6 | 75 |
| 226 | Earthworm Invasion, Fine-root Distributions, and Soil Respiration in North Temperate Forests. <i>Ecosystems</i> , 2004 , 7, 55-62 | 3.9 | 73 |
| 225 | Gross nitrogen process rates in temperate forest soils exhibiting symptoms of nitrogen saturation. <i>Forest Ecology and Management</i> , 2004 , 196, 129-142 | 3.9 | 73 |
| 224 | Nitrous oxide production in riparian zones and groundwater. <i>Nutrient Cycling in Agroecosystems</i> , 1998 , 52, 179-186 | 3.3 | 70 |
| 223 | Spatial and Temporal Variation in Groundwater Nitrate Removal in a Riparian Forest. <i>Journal of Environmental Quality</i> , 1995 , 24, 691-699 | 3.4 | 70 |
| 222 | Denitrification in a Tallgrass Prairie Landscape. <i>Ecology</i> , 1993 , 74, 855-862 | 4.6 | 69 |
| 221 | Nitrogen deposition in and near an urban ecosystem. <i>Environmental Science & Technology</i> , 2013 , 47, 6047-51 | 10.3 | 68 |
| 220 | Effects of Exotic Earthworms on Soil Phosphorus Cycling in Two Broadleaf Temperate Forests. <i>Ecosystems</i> , 2004 , 7, 28-44 | 3.9 | 68 |
| 219 | 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. <i>Biogeochemistry</i> , 2005 , 74, 257-282 | 3.8 | 68 |
| 218 | Invasive earthworm species and nitrogen cycling in remnant forest patches. <i>Applied Soil Ecology</i> , 2006 , 32, 54-62 | 5 | 66 |
| 217 | The Contribution of Crab Burrow Excavation to Carbon Availability in Surficial Salt-marsh Sediments. <i>Ecosystems</i> , 2006 , 9, 647-658 | 3.9 | 66 |
| 216 | Calcium Additions and Microbial Nitrogen Cycle Processes in a Northern Hardwood Forest. <i>Ecosystems</i> , 2006 , 9, 1289-1305 | 3.9 | 66 |
| 215 | From missing source to missing sink: long-term changes in the nitrogen budget of a northern hardwood forest. <i>Environmental Science & Technology</i> , 2013 , 47, 11440-8 | 10.3 | 65 |
| 214 | Factors Regulating Denitrification in a Riparian Wetland. <i>Soil Science Society of America Journal</i> , 2010 , 74, 1826-1833 | 2.5 | 65 |
| 213 | Soil and Sediment Biodiversity: Cross-system comparisons and large-scale effects. <i>BioScience</i> , 1999 , 49, 139 | 5.7 | 65 |

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| 212 | Solving the global nitrogen problem: it's a gas!. <i>Frontiers in Ecology and the Environment</i> , 2008 , 6, 199-206 | 6.5 | 64 |
| 211 | Nitrification and Denitrification in Conventional and No-Tillage Soils. <i>Soil Science Society of America Journal</i> , 1985 , 49, 329-334 | 2.5 | 64 |
| 210 | Denitrification in alluvial wetlands in an urban landscape. <i>Journal of Environmental Quality</i> , 2011 , 40, 634-46 | 3.4 | 61 |
| 209 | Nitrogen dynamics at the groundwater-surface water interface of a degraded urban stream. <i>Journal of Environmental Quality</i> , 2010 , 39, 810-23 | 3.4 | 61 |
| 208 | Methane uptake in urban forests and lawns. <i>Environmental Science & Technology</i> , 2009 , 43, 5229-35 | 10.3 | 61 |
| 207 | Declines in methane uptake in forest soils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 8587-8590 | 11.5 | 55 |
| 206 | Winter climate change affects growing-season soil microbial biomass and activity in northern hardwood forests. <i>Global Change Biology</i> , 2014 , 20, 3568-77 | 11.4 | 55 |
| 205 | Continental-scale homogenization of residential lawn plant communities. <i>Landscape and Urban Planning</i> , 2017 , 165, 54-63 | 7.7 | 54 |
| 204 | Towards closing the watershed nitrogen budget: Spatial and temporal scaling of denitrification. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 1105-1119 | 3.7 | 54 |
| 203 | Spatial Distribution of Carbon in the Subsurface of Riparian Zones. <i>Soil Science Society of America Journal</i> , 2009 , 73, 1733-1740 | 2.5 | 54 |
| 202 | Role of soil freezing events in interannual patterns of stream chemistry at the Hubbard Brook Experimental Forest, New Hampshire. <i>Environmental Science & Technology</i> , 2003 , 37, 1575-80 | 10.3 | 54 |
| 201 | Terrestrial denitrification: challenges and opportunities. <i>Ecological Processes</i> , 2012 , 1, | 3.6 | 53 |
| 200 | Transport of Carbon and Nitrogen Between Litter and Soil Organic Matter in a Northern Hardwood Forest. <i>Ecosystems</i> , 2011 , 14, 326-340 | 3.9 | 53 |
| 199 | Earthworms increase soil microbial biomass carrying capacity and nitrogen retention in northern hardwood forests. <i>Soil Biology and Biochemistry</i> , 2015 , 87, 51-58 | 7.5 | 52 |
| 198 | Nitrogen oligotrophication in northern hardwood forests. <i>Biogeochemistry</i> , 2018 , 141, 523-539 | 3.8 | 52 |
| 197 | Dynamics of nitrate concentration-discharge patterns in an urban watershed. <i>Water Resources Research</i> , 2017 , 53, 7349-7365 | 5.4 | 51 |
| 196 | Effects of Land Use and Vegetation Cover on Soil Temperature in an Urban Ecosystem. <i>Soil Science Society of America Journal</i> , 2010 , 74, 469-480 | 2.5 | 50 |
| 195 | Denitrification capacity in a subterranean estuary below a Rhode Island fringing salt marsh. <i>Estuaries and Coasts</i> , 2005 , 28, 896-908 | | 50 |

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| 194 | Isotopic signals of summer denitrification in a northern hardwood forested catchment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 16413-8 | 11.5 | 48 |
| 193 | Soil denitrification fluxes from three northeastern North American forests across a range of nitrogen deposition. <i>Oecologia</i> , 2015 , 177, 17-27 | 2.9 | 47 |
| 192 | Climate change decreases nitrogen pools and mineralization rates in northern hardwood forests. <i>Ecosphere</i> , 2016 , 7, e01251 | 3.1 | 47 |
| 191 | Microbially available carbon in buried riparian soils in a glaciated landscape. <i>Soil Biology and Biochemistry</i> , 2008 , 40, 85-96 | 7.5 | 47 |
| 190 | Moving Towards a New Urban Systems Science. <i>Ecosystems</i> , 2017 , 20, 38-43 | 3.9 | 46 |
| 189 | Urban ecology: advancing science and society. <i>Frontiers in Ecology and the Environment</i> , 2014 , 12, 574-583 | 3.5 | 46 |
| 188 | Chloride effects on nitrogen dynamics in forested and suburban stream debris dams. <i>Journal of Environmental Quality</i> , 2006 , 35, 2425-32 | 3.4 | 46 |
| 187 | Soil nitrogen cycling under litter and coarse woody debris in a mixed forest in New York State. <i>Soil Biology and Biochemistry</i> , 2005 , 37, 2159-2162 | 7.5 | 45 |
| 186 | Landscape versus ungulate control of gross mineralization and gross nitrification in semi-arid grasslands of Yellowstone National Park. <i>Soil Biology and Biochemistry</i> , 2002 , 34, 1691-1699 | 7.5 | 45 |
| 185 | Regional scale analysis of denitrification in north temperate forest soils. <i>Landscape Ecology</i> , 1992 , 7, 45-53 | 4.3 | 45 |
| 184 | Ecological homogenization of residential macrosystems. <i>Nature Ecology and Evolution</i> , 2017 , 1, 191 | 12.3 | 44 |
| 183 | Exploring carbon flow through the root channel in a temperate forest soil food web. <i>Soil Biology and Biochemistry</i> , 2014 , 76, 45-52 | 7.5 | 44 |
| 182 | High Nitrate Retention during Winter in Soils of the Hubbard Brook Experimental Forest. <i>Ecosystems</i> , 2007 , 10, 217-225 | 3.9 | 44 |
| 181 | Nitrogen supply modulates the effect of changes in drying-rewetting frequency on soil C and N cycling and greenhouse gas exchange. <i>Global Change Biology</i> , 2015 , 21, 3854-63 | 11.4 | 43 |
| 180 | Effects of <i>Phragmites australis</i> removal on marsh nutrient cycling. <i>Wetlands Ecology and Management</i> , 2003 , 11, 157-165 | 2.1 | 43 |
| 179 | Denitrification in suburban lawn soils. <i>Journal of Environmental Quality</i> , 2011 , 40, 1932-40 | 3.4 | 42 |
| 178 | Accidental urban wetlands: ecosystem functions in unexpected places. <i>Frontiers in Ecology and the Environment</i> , 2017 , 15, 248-256 | 5.5 | 41 |
| 177 | Mechanisms driving the seasonality of catchment scale nitrate export: Evidence for riparian ecohydrologic controls. <i>Water Resources Research</i> , 2015 , 51, 3982-3997 | 5.4 | 41 |

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|-----|---|------|----|
| 176 | Comparing Microbial Parameters in Natural and Constructed Wetlands. <i>Journal of Environmental Quality</i> , 1994 , 23, 298-305 | 3.4 | 41 |
| 175 | A potential tipping point in tropical agriculture: Avoiding rapid increases in nitrous oxide fluxes from agricultural intensification in Kenya. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015 , 120, 938-951 | 3.7 | 40 |
| 174 | Homogenization of plant diversity, composition, and structure in North American urban yards. <i>Ecosphere</i> , 2018 , 9, e02105 | 3.1 | 39 |
| 173 | Soil microbial biomass and activity in tropical riparian forests. <i>Soil Biology and Biochemistry</i> , 2001 , 33, 1339-1348 | 7.5 | 39 |
| 172 | Experimental snowpack reduction alters organic matter and net N mineralization potential of soil macroaggregates in a northern hardwood forest. <i>Biology and Fertility of Soils</i> , 2008 , 45, 1-10 | 6.1 | 38 |
| 171 | Muskrat (<i>Ondatra zibethicus</i>) Disturbance to Vegetation and Potential Net Nitrogen Mineralization and Nitrification Rates in a Freshwater Tidal Marsh. <i>American Midland Naturalist</i> , 2000 , 143, 53-63 | 0.7 | 38 |
| 170 | Soil Denitrification Fluxes in a Northern Hardwood Forest: The Importance of Snowmelt and Implications for Ecosystem N Budgets. <i>Ecosystems</i> , 2015 , 18, 520-532 | 3.9 | 37 |
| 169 | Direct flux and ¹⁵ N tracer methods for measuring denitrification in forest soils. <i>Biogeochemistry</i> , 2014 , 117, 359-373 | 3.8 | 37 |
| 168 | Winter climate change effects on soil C and N cycles in urban grasslands. <i>Global Change Biology</i> , 2013 , 19, 2826-37 | 11.4 | 37 |
| 167 | Phosphate additions have no effect on microbial biomass and activity in a northern hardwood forest. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 2441-2449 | 7.5 | 37 |
| 166 | Macro- and Micromorphology of Subsurface Carbon in Riparian Zone Soils. <i>Soil Science Society of America Journal</i> , 2005 , 69, 1320-1329 | 2.5 | 37 |
| 165 | Chemical, Physical, and Biological Characteristics of Urban Soils. <i>Agronomy</i> , 2015 , 119-152 | 0.8 | 36 |
| 164 | The role of interface organizations in science communication and understanding. <i>Frontiers in Ecology and the Environment</i> , 2010 , 8, 306-313 | 5.5 | 36 |
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