

Gene E Likens

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

10,784
citations

76326

40
h-index

110387

64
g-index

68
all docs

68
docs citations

68
times ranked

7812
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Pattern and Process in a Forested Ecosystem. , 1979, , . | | 1,527 |
| 2 | Effects of Forest Cutting and Herbicide Treatment on Nutrient Budgets in the Hubbard Brook Watershedâ€Ecosystem. Ecological Monographs, 1970, 40, 23-47. | 5.4 | 1,065 |
| 3 | 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. | 7.1 | 731 |
| 4 | The composition of precipitation in remote areas of the world. Journal of Geophysical Research, 1982, 87, 8771-8786. | 3.3 | 674 |
| 5 | Rising stream and river temperatures in the United States. Frontiers in Ecology and the Environment, 2010, 8, 461-466. | 4.0 | 485 |
| 6 | Freshwater salinization syndrome on a continental scale. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E574-E583. | 7.1 | 364 |
| 7 | Acid Rain. Scientific American, 1979, 241, 43-51. | 1.0 | 338 |
| 8 | Acid precipitation in the northeastern United States. Water Resources Research, 1974, 10, 1133-1137. | 4.2 | 301 |
| 9 | Linkages between Terrestrial and Aquatic Ecosystems. BioScience, 1974, 24, 447-456. | 4.9 | 292 |
| 10 | The assumptions and rationales of a computer model of phytoplankton population dynamics1. Limnology and Oceanography, 1975, 20, 343-364. | 3.1 | 287 |
| 11 | Biogeochemistry of a Forested Ecosystem. , 2013, , . | | 281 |
| 12 | Photosynthetically produced dissolved organic carbon: An important carbon source for planktonic bacteria1. Limnology and Oceanography, 1982, 27, 1080-1090. | 3.1 | 277 |
| 13 | Energy Flow and Nutrient Cycling in Salamander Populations in the Hubbard Brook Experimental Forest, New Hampshire. Ecology, 1975, 56, 1068-1080. | 3.2 | 262 |
| 14 | Experimental Acidification of a Stream in the Hubbard Brook Experimental Forest, New Hampshire. Ecology, 1980, 61, 976-989. | 3.2 | 255 |
| 15 | Acid Rain. Environment, 1972, 14, 33-40. | 1.4 | 237 |
| 16 | New Policies for Old Trees: Averting a Global Crisis in a Keystone Ecological Structure. Conservation Letters, 2014, 7, 61-69. | 5.7 | 220 |
| 17 | Inorganic Nitrogen Losses from a Forested Ecosystem in Responseto Physical, Chemical, Biotic, and Climatic Perturbations. Ecosystems, 2002, 5, 0648-0658. | 3.4 | 178 |
| 18 | Organic matter and nutrient dynamics of the forest and forest floor in the Hubbard Brook forest. Oecologia, 1976, 22, 305-320. | 2.0 | 177 |

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|----|---|-----|-----------|
| 19 | The collection of precipitation for chemical analysis. <i>Tellus</i> , 2022, 30, 71. | 0.8 | 150 |
| 20 | Chemistry of precipitation from a remote, terrestrial site in Australia. <i>Journal of Geophysical Research</i> , 1987, 92, 13299-13314. | 3.3 | 143 |
| 21 | Complex response of the forest nitrogen cycle to climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 3406-3411. | 7.1 | 130 |
| 22 | An Experimental Approach for the Study of Ecosystems: The Fifth Tansley Lecture. <i>Journal of Ecology</i> , 1985, 73, 381. | 4.0 | 119 |
| 23 | The biogeochemistry of chlorine at Hubbard Brook, New Hampshire, USA. <i>Biogeochemistry</i> , 2005, 72, 191-232. | 3.5 | 115 |
| 24 | Atmospheric Dust and Acid Rain. <i>Scientific American</i> , 1996, 275, 88-92. | 1.0 | 110 |
| 25 | Network analysis reveals multiscale controls on streamwater chemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7030-7035. | 7.1 | 110 |
| 26 | Nitrogen Dynamics in Ice Storm-Damaged Forest Ecosystems: Implications for Nitrogen Limitation Theory. <i>Ecosystems</i> , 2003, 6, 431-443. | 3.4 | 105 |
| 27 | Atmospheric enhancement of metal deposition in Adirondack lake sediments1. <i>Limnology and Oceanography</i> , 1979, 24, 427-433. | 3.1 | 103 |
| 28 | Effect of hydrologic fluctuations on the transport of fine particulate organic carbon in a small stream1. <i>Limnology and Oceanography</i> , 1979, 24, 69-75. | 3.1 | 100 |
| 29 | The role of science in decision making: does evidence-based science drive environmental policy?. <i>Frontiers in Ecology and the Environment</i> , 2010, 8, e1. | 4.0 | 100 |
| 30 | Evaluation of an integrated biogeochemical model (PnET-BGC) at a northern hardwood forest ecosystem. <i>Water Resources Research</i> , 2001, 37, 1057-1070. | 4.2 | 99 |
| 31 | Freshwater salinization syndrome: from emerging global problem to managing risks. <i>Biogeochemistry</i> , 2021, 154, 255-292. | 3.5 | 87 |
| 32 | Linking water age and solute dynamics in streamflow at the Hubbard Brook experimental forest, NH, USA. <i>Water Resources Research</i> , 2015, 51, 9256-9272. | 4.2 | 83 |
| 33 | Long- and short-term changes in sulfate deposition: Effects of the 1990 Clean Air Act Amendments. <i>Biogeochemistry</i> , 2001, 52, 1-11. | 3.5 | 75 |
| 34 | Novel 'chemical cocktails' in inland waters are a consequence of the freshwater salinization syndrome. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180017. | 4.0 | 72 |
| 35 | The composition and deposition of organic carbon in precipitation. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 35, 16. | 1.6 | 70 |
| 36 | Measurement of planktonic bacterial production in an oligotrophic lake1. <i>Limnology and Oceanography</i> , 1980, 25, 719-732. | 3.1 | 67 |

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|----|--|------|-----------|
| 37 | Climate change decreases nitrogen pools and mineralization rates in northern hardwood forests. <i>Ecosphere</i> , 2016, 7, e01251. | 2.2 | 67 |
| 38 | Biomass and annual production of the freshwater mussel <i>Elliptio complanata</i> in an oligotrophic softwater lake. <i>Freshwater Biology</i> , 1981, 11, 435-440. | 2.4 | 64 |
| 39 | Nitrogen transformations in a small mountain stream. <i>Hydrobiologia</i> , 1985, 124, 129-139. | 2.0 | 64 |
| 40 | An Empirical Assessment and Comparison of Species-Based and Habitat-Based Surrogates: A Case Study of Forest Vertebrates and Large Old Trees. <i>PLoS ONE</i> , 2014, 9, e89807. | 2.5 | 62 |
| 41 | NOTES ON QUANTITATIVE SAMPLING OF NATURAL POPULATIONS OF PLANKTONIC ROTIFERS ¹ . <i>Limnology and Oceanography</i> , 1970, 15, 816-820. | 3.1 | 58 |
| 42 | Watershed Sulfur Biogeochemistry: Shift from Atmospheric Deposition Dominance to Climatic Regulation. <i>Environmental Science & Technology</i> , 2011, 45, 5267-5271. | 10.0 | 58 |
| 43 | Dilution and the Elusive Baseline. <i>Environmental Science & Technology</i> , 2012, 46, 4382-4387. | 10.0 | 56 |
| 44 | Acid rain mitigation experiment shifts a forested watershed from a net sink to a net source of nitrogen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7580-7583. | 7.1 | 46 |
| 45 | Nutrient retention during ecosystem succession: a revised conceptual model. <i>Frontiers in Ecology and the Environment</i> , 2018, 16, 532-538. | 4.0 | 41 |
| 46 | Young runoff fractions control streamwater age and solute concentration dynamics. <i>Hydrological Processes</i> , 2017, 31, 2982-2986. | 2.6 | 39 |
| 47 | The input of gaseous and particulate sulfur to a forest ecosystem. <i>Tellus</i> , 2022, 30, 546. | 0.8 | 38 |
| 48 | Chemical flux in an acid-stressed stream. <i>Nature</i> , 1981, 292, 329-331. | 27.8 | 35 |
| 49 | Comment: Cultural eutrophication of natural lakes in the United States is real and widespread. <i>Limnology and Oceanography</i> , 2014, 59, 2217-2225. | 3.1 | 35 |
| 50 | Long-term monitoring of precipitation chemistry in the U.S.: Insights into changes and condition. <i>Atmospheric Environment</i> , 2021, 245, 118031. | 4.1 | 33 |
| 51 | The Water Table: The Shifting Foundation of Life on Land. <i>Ambio</i> , 2012, 41, 657-669. | 5.5 | 32 |
| 52 | Long-term relationships between SO ₂ and NO _x emissions and SO ₄ ²⁻ and NO ₃ ⁻ concentration in bulk deposition at the Hubbard Brook Experimental Forest, NH. <i>Journal of Environmental Monitoring</i> , 2005, 7, 964. | 2.1 | 31 |
| 53 | Natural and anthropogenic drivers of calcium depletion in a northern forest during the last millennium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6934-6938. | 7.1 | 24 |
| 54 | Some measurements of the pH and chemistry of precipitation at Davis and Lake Tahoe, California. <i>Water, Air, and Soil Pollution</i> , 1981, 15, 153-167. | 2.4 | 22 |

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|----|---|------|-----------|
| 55 | Earth Observation Networks (EONs): Finding the Right Balance. Trends in Ecology and Evolution, 2018, 33, 1-3. | 8.7 | 22 |
| 56 | Content Volatility of Scientific Topics in Wikipedia: A Cautionary Tale. PLoS ONE, 2015, 10, e0134454. | 2.5 | 20 |
| 57 | Uncertainties in historical aspects of acid precipitation: Getting it straight. Atmospheric Environment, 1984, 18, 2261-2268. | 1.0 | 17 |
| 58 | Broad Decline of Populations of Large Old Trees. Conservation Letters, 2014, 7, 72-73. | 5.7 | 17 |
| 59 | Fifty years of continuous precipitation and stream chemistry data from the Hubbard Brook ecosystem study (1963–2013). Ecology, 2017, 98, 2224-2224. | 3.2 | 15 |
| 60 | Five state factors control progressive stages of freshwater salinization syndrome. Limnology and Oceanography Letters, 2023, 8, 190-211. | 3.9 | 15 |
| 61 | The interactions among fire, logging, and climate change have sprung a landscape trap in Victoria's montane ash forests. Plant Ecology, 0, , 1. | 1.6 | 12 |
| 62 | Benchmarking Open Access Science Against Good Science. Bulletin of the Ecological Society of America, 2013, 94, 338-340. | 0.2 | 11 |
| 63 | Uncertainty in the net hydrologic flux of calcium in a paired watershed harvesting study. Ecosphere, 2016, 7, e01299. | 2.2 | 11 |
| 64 | A century of change: Reconstructing the biogeochemical history of Hubbard Brook. Hydrological Processes, 2021, 35, e14256. | 2.6 | 8 |
| 65 | Aldo Leopold's "Odyssey" and the development of the ecosystem concept and approach. Socio-Ecological Practice Research, 2022, 4, 17-18. | 1.9 | 3 |
| 66 | The watershed ecosystem approach. Hydrological Processes, 2021, 35, . | 2.6 | 2 |
| 67 | Save Earth's global observatories. Science, 2021, 373, 135-135. | 12.6 | 1 |