

# Jill Baron

## List of Publications by Year in descending order

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Version: 2024-02-01

115  
papers

13,157  
citations

57758

44  
h-index

38395

95  
g-index

122  
all docs

122  
docs citations

122  
times ranked

14257  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identifying factors that affect mountain lake sensitivity to atmospheric nitrogen deposition across multiple scales. <i>Water Research</i> , 2022, 209, 117883.	11.3	7
2	Long-term ecosystem and biogeochemical research in Loch Vale watershed, Rocky Mountain National Park, Colorado. <i>Hydrological Processes</i> , 2021, 35, e14107.	2.6	3
3	Nutrients and warming alter mountain lake benthic algal structure and function. <i>Freshwater Science</i> , 2021, 40, 88-102.	1.8	20
4	A more representative community of ecologists. <i>Ecological Applications</i> , 2021, 31, e02353.	3.8	0
5	Blue Waters, Green Bottoms: Benthic Filamentous Algal Blooms Are an Emerging Threat to Clear Lakes Worldwide. <i>BioScience</i> , 2021, 71, 1011-1027.	4.9	42
6	Maintaining momentum for collaborative working groups in a post-pandemic world. <i>Nature Ecology and Evolution</i> , 2021, 5, 1188-1189.	7.8	6
7	Persistent Nitrate in Alpine Waters with Changing Atmospheric Deposition and Warming Trends. <i>Environmental Science &amp; Technology</i> , 2021, 55, 14946-14956.	10.0	12
8	The role of warm, dry summers and variation in snowpack on phytoplankton dynamics in mountain lakes. <i>Ecology</i> , 2020, 101, e03132.	3.2	22
9	Key Components and Contrasts in the Nitrogen Budget Across a U.S.–Canadian Transboundary Watershed. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005577.	3.0	4
10	Nutrients and warming interact to force mountain lakes into unprecedented ecological states. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20200304.	2.6	25
11	Understanding mountain lakes in a changing world: introduction to the topical collection. <i>Aquatic Sciences</i> , 2020, 82, 1.	1.5	18
12	The INI North American Regional Nitrogen Center: 2011–2015 Nitrogen Activities in North America. , 2020, , 489-497.		1
13	Toward the improvement of total nitrogen deposition budgets in the United States. <i>Science of the Total Environment</i> , 2019, 691, 1328-1352.	8.0	29
14	Assessing the Chemistry and Bioavailability of Dissolved Organic Matter From Glaciers and Rock Glaciers. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 1988-2004.	3.0	18
15	Reducing Wet Ammonium Deposition in Rocky Mountain National Park: the Development and Evaluation of A Pilot Early Warning System for Agricultural Operations in Eastern Colorado. <i>Environmental Management</i> , 2019, 64, 626-639.	2.7	6
16	Mountain lakes: Eyes on global environmental change. <i>Global and Planetary Change</i> , 2019, 178, 77-95.	3.5	185
17	Long-term nitrogen addition shifts the soil nematode community to bacterivore-dominated and reduces its ecological maturity in a subalpine forest. <i>Soil Biology and Biochemistry</i> , 2019, 130, 177-184.	8.8	58
18	Henry Lewis Gholz, 1951–2017. <i>Bulletin of the Ecological Society of America</i> , 2018, 99, 48-51.	0.2	0

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19	The Nitrogen Footprint Tool Network: A Multi-Institution Program To Reduce Nitrogen Pollution. Sustainability, 2017, 10, 79-88.	0.7	23
20	Best Practices for Virtual Participation in Meetings: Experiences from Synthesis Centers. Bulletin of the Ecological Society of America, 2017, 98, 57-63.	0.2	12
21	Land before water: The relative temporal sequence of human alteration of freshwater ecosystems in the conterminous United States. Anthropocene, 2017, 18, 27-46.	3.3	32
22	The differing biogeochemical and microbial signatures of glaciers and rock glaciers. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 919-932.	3.0	72
23	Special Session at 100th Ecological Society of America Meeting in Baltimore, Maryland. Bulletin of the Ecological Society of America, 2016, 97, 123-128.	0.2	1
24	Key ecological responses to nitrogen are altered by climate change. Nature Climate Change, 2016, 6, 836-843.	18.8	261
25	Moisture and temperature controls on nitrification differ among ammonia oxidizer communities from three alpine soil habitats. Frontiers of Earth Science, 2016, 10, 1-12.	2.1	26
26	Long-term reactive nitrogen loading alters soil carbon and microbial community properties in a subalpine forest ecosystem. Soil Biology and Biochemistry, 2016, 92, 211-220.	8.8	74
27	Rapid and highly variable warming of lake surface waters around the globe. Geophysical Research Letters, 2015, 42, 10,773.	4.0	767
28	Paleolimnological Records of Nitrogen Deposition in Shallow, High-Elevation Lakes of Grand Teton National Park, Wyoming, U.S.A.. Arctic, Antarctic, and Alpine Research, 2015, 47, 703-717.	1.1	32
29	Effects and Empirical Critical Loads of Nitrogen for Ecoregions of the United States. Environmental Pollution, 2015, , 129-169.	0.4	3
30	The Effects of Atmospheric Nitrogen Deposition on Terrestrial and Freshwater Biodiversity. , 2014, , 465-480.		10
31	Climate, Not Atmospheric Deposition, Drives the Biogeochemical Mass-Balance of a Mountain Watershed. Aquatic Geochemistry, 2014, 20, 167-181.	1.3	15
32	Riverine macrosystems ecology: sensitivity, resistance, and resilience of whole river basins with human alterations. Frontiers in Ecology and the Environment, 2014, 12, 48-58.	4.0	216
33	Combined global change effects on ecosystem processes in nine U.S. topographically complex areas. Biogeochemistry, 2014, 119, 85-108.	3.5	10
34	Links between N Deposition and Nitrate Export from a High-Elevation Watershed in the Colorado Front Range. Environmental Science & Technology, 2014, 48, 14258-14265.	10.0	32
35	Reflections on a Vision for Integrated Research and Monitoring After 15 Years. Aquatic Geochemistry, 2014, 20, 363-380.	1.3	10
36	Preface to Owen P. Bricker III Special Issue of Aquatic Geochemistry. Aquatic Geochemistry, 2014, 20, 81-86.	1.3	0

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37	How Much is too Much? Nitrogen Critical Loads and Eutrophication and Acidification in Oligotrophic Ecosystems. , 2014, , 305-310.		1
38	The interactive effects of excess reactive nitrogen and climate change on aquatic ecosystems and water resources of the United States. Biogeochemistry, 2013, 114, 71-92.	3.5	162
39	Global Change and the World's Mountainsâ€™ Research Needs and Emerging Themes for Sustainable Development. Mountain Research and Development, 2012, 32, S47-S54.	1.0	43
40	Ecological effects of nitrogen and sulfur air pollution in the US: what do we know?. Frontiers in Ecology and the Environment, 2012, 10, 365-372.	4.0	157
41	Empirical Critical Loads of Atmospheric Nitrogen Deposition for Nutrient Enrichment and Acidification of Sensitive US Lakes. BioScience, 2011, 61, 602-613.	4.9	128
42	Effects of nitrogen deposition and empirical nitrogen critical loads for ecoregions of the United States. , 2011, 21, 3049-3082.		373
43	Response of Western Mountain Ecosystems to Climatic Variability and Change:. , 2011, , 163-190.		1
44	Nutrient availability and phytoplankton nutrient limitation across a gradient of atmospheric nitrogen deposition. Ecology, 2009, 90, 3062-3073.	3.2	149
45	Shifts in Lake N:P Stoichiometry and Nutrient Limitation Driven by Atmospheric Nitrogen Deposition. Science, 2009, 326, 835-837.	12.6	655
46	Options for National Parks and Reserves for Adapting to Climate Change. Environmental Management, 2009, 44, 1033-1042.	2.7	106
47	Climateâ€™induced changes in high elevation stream nitrate dynamics. Global Change Biology, 2009, 15, 1777-1789.	9.5	122
48	Spatial patterns of simulated transpiration response to climate variability in a snow dominated mountain ecosystem. Hydrological Processes, 2008, 22, 3576-3588.	2.6	75
49	Negative impact of nitrogen deposition on soil buffering capacity. Nature Geoscience, 2008, 1, 767-770.	12.9	530
50	Compoundâ€™specific stable isotopes of organic compounds from lake sediments track recent environmental changes in an alpine ecosystem, Rocky Mountain National Park, Colorado. Limnology and Oceanography, 2008, 53, 1468-1478.	3.1	38
51	USGS Goals for the Coming Decade. Science, 2007, 318, 200-201.	12.6	13
52	Application of a coupled ecosystem-chemical equilibrium model, DayCent-Chem, to stream and soil chemistry in a Rocky Mountain watershed. Ecological Modelling, 2007, 200, 493-510.	2.5	27
53	New ecological knowledge and practices for society and sustainability. Frontiers in Ecology and the Environment, 2007, 5, w5-w7.	4.0	2
54	Hindcasting Nitrogen Deposition To Determine An Ecological Critical Load. , 2006, 16, 433-439.		107

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55	Novel ecosystems: theoretical and management aspects of the new ecological world order. <i>Global Ecology and Biogeography</i> , 2006, 15, 1-7.	5.8	1,528
56	Ecological Thresholds: The Key to Successful Environmental Management or an Important Concept with No Practical Application?. <i>Ecosystems</i> , 2006, 9, 1-13.	3.4	829
57	Aggregate measures of ecosystem services: can we take the pulse of nature?. <i>Frontiers in Ecology and the Environment</i> , 2005, 3, 56-59.	4.0	34
58	Nonlinear dynamics in ecosystem response to climatic change: Case studies and policy implications. <i>Ecological Complexity</i> , 2005, 2, 357-394.	2.9	220
59	High Elevation Ecosystem Responses to Atmospheric Deposition of Nitrogen in the Colorado Rocky Mountains, USA. <i>Advances in Global Change Research</i> , 2005, , 429-436.	1.6	4
60	Nitrogen regulation of algal biomass, productivity, and composition in shallow mountain lakes, Snowy Range, Wyoming, USA. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2004, 61, 1256-1268.	1.4	55
61	Cumulative effects of nutrients and pH on the plankton of two mountain lakes. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2004, 61, 1153-1165.	1.4	28
62	Nitrogen emissions along the Colorado Front Range: Response to population growth, land and water use change, and agriculture. <i>Geophysical Monograph Series</i> , 2004, , 117-127.	0.1	4
63	NO <sub>3</sub> uptake in shallow, oligotrophic, mountain lakes: the influence of elevated NO <sub>3</sub> concentrations. <i>Journal of the North American Benthological Society</i> , 2004, 23, 397-415.	3.1	12
64	Research in National Parks <sup>1</sup> . , 2004, 14, 3-4.		4
65	Lake-specific responses to elevated atmospheric nitrogen deposition in the Colorado Rocky Mountains, U.S.A.. <i>Hydrobiologia</i> , 2003, 510, 103-114.	2.0	25
66	Isotopic study of sulfate sources and residence times in a subalpine watershed. <i>Environmental Geology</i> , 2003, 43, 606-613.	1.2	21
67	Recent ecological and biogeochemical changes in alpine lakes of Rocky Mountain National Park (Colorado, USA): a response to anthropogenic nitrogen deposition. <i>Geobiology</i> , 2003, 1, 153-168.	2.4	175
68	Ecological Effects of Nitrogen Deposition in the Western United States. <i>BioScience</i> , 2003, 53, 404.	4.9	522
69	Nitrogen Emissions, Deposition, and Monitoring in the Western United States. <i>BioScience</i> , 2003, 53, 391.	4.9	355
70	RESPONSES OF ENGELMANN SPRUCE FORESTS TO NITROGEN FERTILIZATION IN THE COLORADO ROCKY MOUNTAINS. , 2003, 13, 664-673.		22
71	MEETING ECOLOGICAL AND SOCIETAL NEEDS FOR FRESHWATER. , 2002, 12, 1247-1260.		448
72	Differences in Englemann Spruce Forest Biogeochemistry East and West of the Continental Divide in Colorado, USA. <i>Ecosystems</i> , 2002, 5, 45-57.	3.4	48

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73	MEETING ECOLOGICAL AND SOCIETAL NEEDS FOR FRESHWATER. , 2002, 12, 1247.		1
74	Meeting Ecological and Societal Needs for Freshwater. , 2002, 12, 1247.		7
75	Title is missing!. Journal of Paleolimnology, 2001, 25, 1-7.	1.6	216
76	Ecosystem Structure and Function Modeling. , 2001, , 257-272.		2
77	Temporal coherence of two alpine lake basins of the Colorado Front Range, U.S.A.. Freshwater Biology, 2000, 43, 463-476.	2.4	34
78	POTENTIAL EFFECTS OF CLIMATE CHANGE ON SURFACE-WATER QUALITY IN NORTH AMERICA1. Journal of the American Water Resources Association, 2000, 36, 347-366.	2.4	245
79	Ecosystem Responses to Nitrogen Deposition in the Colorado Front Range. Ecosystems, 2000, 3, 352-368.	3.4	278
80	Coupled Atmosphereâ€“Biophysicsâ€“Hydrology Models for Environmental Modeling. Journal of Applied Meteorology and Climatology, 2000, 39, 931-944.	1.7	447
81	Controls on nitrogen flux in alpine/subalpine watersheds of Colorado. Water Resources Research, 2000, 36, 37-47.	4.2	113
82	Preface [to special section on Recent Loch Vale Watershed Research]. Water Resources Research, 2000, 36, 11-12.	4.2	6
83	Stream chemistry modeling of two watersheds in the Front Range, Colorado. Water Resources Research, 2000, 36, 77-87.	4.2	31
84	Sensitivity of a high-elevation rocky mountain watershed to altered climate and CO2. Water Resources Research, 2000, 36, 89-99.	4.2	65
85	Spatial Variation among Lakes within Landscapes: Ecological Organization along Lake Chains. Ecosystems, 1999, 2, 395-410.	3.4	179
86	Simulations of snow distribution and hydrology in a mountain basin. Water Resources Research, 1999, 35, 1587-1603.	4.2	106
87	Potential impacts on Colorado Rocky Mountain weather due to land use changes on the adjacent Great Plains. Journal of Geophysical Research, 1999, 104, 16673-16690.	3.3	125
88	Evidence that local land use practices influence regional climate, vegetation, and stream flow patterns in adjacent natural areas. Global Change Biology, 1998, 4, 495-504.	9.5	223
89	NITROGEN EXCESS IN NORTH AMERICAN ECOSYSTEMS: PREDISPOSING FACTORS, ECOSYSTEM RESPONSES, AND MANAGEMENT STRATEGIES. , 1998, 8, 706-733.		634
90	Carbon Cycling in Terrestrial Environments. , 1998, , 577-610.		12

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91	EFFECTS OF LAND COVER, WATER REDISTRIBUTION, AND TEMPERATURE ON ECOSYSTEM PROCESSES IN THE SOUTH PLATTE BASIN. , 1998, 8, 1037-1051.		67
92	Title is missing!. Biogeochemistry, 1997, 36, 99-124.	3.5	175
93	Nitrogen fluxes in a high elevation colorado rocky mountain basin. Hydrological Processes, 1997, 11, 783-799.	2.6	85
94	ASSESSMENT OF CLIMATE CHANGE AND FRESHWATER ECOSYSTEMS OF THE ROCKY MOUNTAINS, USA AND CANADA. Hydrological Processes, 1997, 11, 903-924.	2.6	138
95	NITROGEN FLUXES IN A HIGH ELEVATION COLORADO ROCKY MOUNTAIN BASIN. Hydrological Processes, 1997, 11, 783-799.	2.6	4
96	ASSESSMENT OF CLIMATE CHANGE AND FRESHWATER ECOSYSTEMS OF THE ROCKY MOUNTAINS, USA AND CANADA. Hydrological Processes, 1997, 11, 903-924.	2.6	6
97	Nitrogen Saturation in the Rocky Mountains. Environmental Science & Technology, 1996, 30, 640-646.	10.0	245
98	The influence of mountain meteorology on precipitation chemistry at low and high elevations of the Colorado Front Range, U.S.A.. Atmospheric Environment Part A General Topics, 1993, 27, 2337-2349.	1.3	60
99	Biogeochemical Fluxes. Ecological Studies, 1992, , 218-231.	1.2	3
100	Regional Characterization and Setting for the Loch Vale Watershed Study. Ecological Studies, 1992, , 12-27.	1.2	14
101	Hydrologic Budget Estimates. Ecological Studies, 1992, , 28-47.	1.2	15
102	Deposition. Ecological Studies, 1992, , 48-75.	1.2	1
103	Soils. Ecological Studies, 1992, , 108-141.	1.2	10
104	Surface Waters. Ecological Studies, 1992, , 142-186.	1.2	9
105	Hydrologic pathways and chemical composition of runoff during snowmelt in Loch Vale Watershed, Rocky Mountain National Park, Colorado, USA. Water, Air, and Soil Pollution, 1991, 59, 107.	2.4	52
106	Sources of dissolved and particulate organic material in Loch Vale Watershed, Rocky Mountain National Park, Colorado, USA. Biogeochemistry, 1991, 15, 89.	3.5	73
107	Phytoplankton Dynamics in Three Rocky Mountain Lakes, Colorado, U.S.A.. Arctic and Alpine Research, 1990, 22, 264.	1.3	54
108	Differences between Nipher and Alter shielded Universal Belfort precipitation gages at two Colorado deposition monitoring sites. Environmental Science & Technology, 1990, 24, 758-760.	10.0	8

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109	Chemical Weathering in the Loch Vale Watershed, Rocky Mountain National Park, Colorado. <i>Water Resources Research</i> , 1990, 26, 2971-2978.	4.2	187
110	Sediment Diatom and Metal Stratigraphy from Rocky Mountain Lakes with Special Reference to Atmospheric Deposition. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1986, 43, 1350-1362.	1.4	49
111	Excess Unsupported <sup>210</sup> Pb in Lake Sediment from Rocky Mountain Lakes: A Groundwater Effect. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1985, 42, 1249-1254.	1.4	20
112	Evidence of deposition of anthropogenic pollutants in remote rocky mountain lakes. <i>Water, Air, and Soil Pollution</i> , 1984, 22, 403.	2.4	25
113	Effects of Feral Hogs ( <i>Sus scrofa</i> ) on the Vegetation of Horn Island, Mississippi. <i>American Midland Naturalist</i> , 1982, 107, 202.	0.4	26
114	Nitrogen fluxes in a high elevation colorado rocky mountain basin. , 0, .		1
115	EFFECTS OF MESOSCALE VEGETATION DISTRIBUTIONS IN MOUNTAINOUS TERRAIN ON LOCAL CLIMATE. , 0, , 121-135.		2