

Jill Baron

List of Publications by Year in descending order

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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	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
2	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
3	Rapid and highly variable warming of lake surface waters around the globe. <i>Geophysical Research Letters</i> , 2015, 42, 10,773.	4.0	767
4	Shifts in Lake N:P Stoichiometry and Nutrient Limitation Driven by Atmospheric Nitrogen Deposition. <i>Science</i> , 2009, 326, 835-837.	12.6	655
5	NITROGEN EXCESS IN NORTH AMERICAN ECOSYSTEMS: PREDISPOSING FACTORS, ECOSYSTEM RESPONSES, AND MANAGEMENT STRATEGIES. , 1998, 8, 706-733.		634
6	Negative impact of nitrogen deposition on soil buffering capacity. <i>Nature Geoscience</i> , 2008, 1, 767-770.	12.9	530
7	Ecological Effects of Nitrogen Deposition in the Western United States. <i>BioScience</i> , 2003, 53, 404.	4.9	522
8	MEETING ECOLOGICAL AND SOCIETAL NEEDS FOR FRESHWATER. , 2002, 12, 1247-1260.		448
9	Coupled Atmosphereâ€“Biophysicsâ€“Hydrology Models for Environmental Modeling. <i>Journal of Applied Meteorology and Climatology</i> , 2000, 39, 931-944.	1.7	447
10	Effects of nitrogen deposition and empirical nitrogen critical loads for ecoregions of the United States. , 2011, 21, 3049-3082.		373
11	Nitrogen Emissions, Deposition, and Monitoring in the Western United States. <i>BioScience</i> , 2003, 53, 391.	4.9	355
12	Ecosystem Responses to Nitrogen Deposition in the Colorado Front Range. <i>Ecosystems</i> , 2000, 3, 352-368.	3.4	278
13	Key ecological responses to nitrogen are altered by climate change. <i>Nature Climate Change</i> , 2016, 6, 836-843.	18.8	261
14	Nitrogen Saturation in the Rocky Mountains. <i>Environmental Science & Technology</i> , 1996, 30, 640-646.	10.0	245
15	POTENTIAL EFFECTS OF CLIMATE CHANGE ON SURFACE-WATER QUALITY IN NORTH AMERICA1. <i>Journal of the American Water Resources Association</i> , 2000, 36, 347-366.	2.4	245
16	Evidence that local land use practices influence regional climate, vegetation, and stream flow patterns in adjacent natural areas. <i>Global Change Biology</i> , 1998, 4, 495-504.	9.5	223
17	Nonlinear dynamics in ecosystem response to climatic change: Case studies and policy implications. <i>Ecological Complexity</i> , 2005, 2, 357-394.	2.9	220
18	Title is missing!. <i>Journal of Paleolimnology</i> , 2001, 25, 1-7.	1.6	216

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19	Riverine macrosystems ecology: sensitivity, resistance, and resilience of whole river basins with human alterations. <i>Frontiers in Ecology and the Environment</i> , 2014, 12, 48-58.	4.0	216
20	Chemical Weathering in the Loch Vale Watershed, Rocky Mountain National Park, Colorado. <i>Water Resources Research</i> , 1990, 26, 2971-2978.	4.2	187
21	Mountain lakes: Eyes on global environmental change. <i>Global and Planetary Change</i> , 2019, 178, 77-95.	3.5	185
22	Spatial Variation among Lakes within Landscapes: Ecological Organization along Lake Chains. <i>Ecosystems</i> , 1999, 2, 395-410.	3.4	179
23	Title is missing!. <i>Biogeochemistry</i> , 1997, 36, 99-124.	3.5	175
24	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
25	The interactive effects of excess reactive nitrogen and climate change on aquatic ecosystems and water resources of the United States. <i>Biogeochemistry</i> , 2013, 114, 71-92.	3.5	162
26	Ecological effects of nitrogen and sulfur air pollution in the US: what do we know?. <i>Frontiers in Ecology and the Environment</i> , 2012, 10, 365-372.	4.0	157
27	Nutrient availability and phytoplankton nutrient limitation across a gradient of atmospheric nitrogen deposition. <i>Ecology</i> , 2009, 90, 3062-3073.	3.2	149
28	ASSESSMENT OF CLIMATE CHANGE AND FRESHWATER ECOSYSTEMS OF THE ROCKY MOUNTAINS, USA AND CANADA. <i>Hydrological Processes</i> , 1997, 11, 903-924.	2.6	138
29	Empirical Critical Loads of Atmospheric Nitrogen Deposition for Nutrient Enrichment and Acidification of Sensitive US Lakes. <i>BioScience</i> , 2011, 61, 602-613.	4.9	128
30	Potential impacts on Colorado Rocky Mountain weather due to land use changes on the adjacent Great Plains. <i>Journal of Geophysical Research</i> , 1999, 104, 16673-16690.	3.3	125
31	Climate-induced changes in high elevation stream nitrate dynamics. <i>Global Change Biology</i> , 2009, 15, 1777-1789.	9.5	122
32	Controls on nitrogen flux in alpine/subalpine watersheds of Colorado. <i>Water Resources Research</i> , 2000, 36, 37-47.	4.2	113
33	Hindcasting Nitrogen Deposition To Determine An Ecological Critical Load. , 2006, 16, 433-439.		107
34	Simulations of snow distribution and hydrology in a mountain basin. <i>Water Resources Research</i> , 1999, 35, 1587-1603.	4.2	106
35	Options for National Parks and Reserves for Adapting to Climate Change. <i>Environmental Management</i> , 2009, 44, 1033-1042.	2.7	106
36	Nitrogen fluxes in a high elevation colorado rocky mountain basin. <i>Hydrological Processes</i> , 1997, 11, 783-799.	2.6	85

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37	Spatial patterns of simulated transpiration response to climate variability in a snow dominated mountain ecosystem. <i>Hydrological Processes</i> , 2008, 22, 3576-3588.	2.6	75
38	Long-term reactive nitrogen loading alters soil carbon and microbial community properties in a subalpine forest ecosystem. <i>Soil Biology and Biochemistry</i> , 2016, 92, 211-220.	8.8	74
39	Sources of dissolved and particulate organic material in Loch Vale Watershed, Rocky Mountain National Park, Colorado, USA. <i>Biogeochemistry</i> , 1991, 15, 89.	3.5	73
40	The differing biogeochemical and microbial signatures of glaciers and rock glaciers. <i>Journal of Geophysical Research G: Geosciences</i> , 2016, 121, 919-932.	3.0	72
41	EFFECTS OF LAND COVER, WATER REDISTRIBUTION, AND TEMPERATURE ON ECOSYSTEM PROCESSES IN THE SOUTH PLATTE BASIN. , 1998, 8, 1037-1051.		67
42	Sensitivity of a high-elevation rocky mountain watershed to altered climate and CO ₂ . <i>Water Resources Research</i> , 2000, 36, 89-99.	4.2	65
43	The influence of mountain meteorology on precipitation chemistry at low and high elevations of the Colorado Front Range, U.S.A.. <i>Atmospheric Environment Part A General Topics</i> , 1993, 27, 2337-2349.	1.3	60
44	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
45	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
46	Phytoplankton Dynamics in Three Rocky Mountain Lakes, Colorado, U.S.A.. <i>Arctic and Alpine Research</i> , 1990, 22, 264.	1.3	54
47	Hydrologic pathways and chemical composition of runoff during snowmelt in Loch Vale Watershed, Rocky Mountain National Park, Colorado, USA. <i>Water, Air, and Soil Pollution</i> , 1991, 59, 107.	2.4	52
48	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
49	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
50	Global Change and the World's Mountainsâ€™ Research Needs and Emerging Themes for Sustainable Development. <i>Mountain Research and Development</i> , 2012, 32, S47-S54.	1.0	43
51	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
52	Compoundâ€™specific stable isotopes of organic compounds from lake sediments track recent environmental changes in an alpine ecosystem, Rocky Mountain National Park, Colorado. <i>Limnology and Oceanography</i> , 2008, 53, 1468-1478.	3.1	38
53	Temporal coherence of two alpine lake basins of the Colorado Front Range, U.S.A.. <i>Freshwater Biology</i> , 2000, 43, 463-476.	2.4	34
54	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

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55	Links between N Deposition and Nitrate Export from a High-Elevation Watershed in the Colorado Front Range. <i>Environmental Science & Technology</i> , 2014, 48, 14258-14265.	10.0	32
56	Paleolimnological Records of Nitrogen Deposition in Shallow, High-Elevation Lakes of Grand Teton National Park, Wyoming, U.S.A.. <i>Arctic, Antarctic, and Alpine Research</i> , 2015, 47, 703-717.	1.1	32
57	Land before water: The relative temporal sequence of human alteration of freshwater ecosystems in the conterminous United States. <i>Anthropocene</i> , 2017, 18, 27-46.	3.3	32
58	Stream chemistry modeling of two watersheds in the Front Range, Colorado. <i>Water Resources Research</i> , 2000, 36, 77-87.	4.2	31
59	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
60	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
61	Application of a coupled ecosystem-chemical equilibrium model, DayCent-Chem, to stream and soil chemistry in a Rocky Mountain watershed. <i>Ecological Modelling</i> , 2007, 200, 493-510.	2.5	27
62	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
63	Moisture and temperature controls on nitrification differ among ammonia oxidizer communities from three alpine soil habitats. <i>Frontiers of Earth Science</i> , 2016, 10, 1-12.	2.1	26
64	Evidence of deposition of anthropogenic pollutants in remote rocky mountain lakes. <i>Water, Air, and Soil Pollution</i> , 1984, 22, 403.	2.4	25
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	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
67	The Nitrogen Footprint Tool Network: A Multi-Institution Program To Reduce Nitrogen Pollution. <i>Sustainability</i> , 2017, 10, 79-88.	0.7	23
68	RESPONSES OF ENGELMANN SPRUCE FORESTS TO NITROGEN FERTILIZATION IN THE COLORADO ROCKY MOUNTAINS. , 2003, 13, 664-673.		22
69	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
70	Isotopic study of sulfate sources and residence times in a subalpine watershed. <i>Environmental Geology</i> , 2003, 43, 606-613.	1.2	21
71	Excess Unsupported ²¹⁰ 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
72	Nutrients and warming alter mountain lake benthic algal structure and function. <i>Freshwater Science</i> , 2021, 40, 88-102.	1.8	20

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73	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
74	Understanding mountain lakes in a changing world: introduction to the topical collection. <i>Aquatic Sciences</i> , 2020, 82, 1.	1.5	18
75	Climate, Not Atmospheric Deposition, Drives the Biogeochemical Mass-Balance of a Mountain Watershed. <i>Aquatic Geochemistry</i> , 2014, 20, 167-181.	1.3	15
76	Hydrologic Budget Estimates. <i>Ecological Studies</i> , 1992, , 28-47.	1.2	15
77	Regional Characterization and Setting for the Loch Vale Watershed Study. <i>Ecological Studies</i> , 1992, , 12-27.	1.2	14
78	USGS Goals for the Coming Decade. <i>Science</i> , 2007, 318, 200-201.	12.6	13
79	Carbon Cycling in Terrestrial Environments. , 1998, , 577-610.		12
80	NO ₃ uptake in shallow, oligotrophic, mountain lakes: the influence of elevated NO ₃ concentrations. <i>Journal of the North American Benthological Society</i> , 2004, 23, 397-415.	3.1	12
81	Best Practices for Virtual Participation in Meetings: Experiences from Synthesis Centers. <i>Bulletin of the Ecological Society of America</i> , 2017, 98, 57-63.	0.2	12
82	Persistent Nitrate in Alpine Waters with Changing Atmospheric Deposition and Warming Trends. <i>Environmental Science & Technology</i> , 2021, 55, 14946-14956.	10.0	12
83	The Effects of Atmospheric Nitrogen Deposition on Terrestrial and Freshwater Biodiversity. , 2014, , 465-480.		10
84	Combined global change effects on ecosystem processes in nine U.S. topographically complex areas. <i>Biogeochemistry</i> , 2014, 119, 85-108.	3.5	10
85	Reflections on a Vision for Integrated Research and Monitoring After 15 Years. <i>Aquatic Geochemistry</i> , 2014, 20, 363-380.	1.3	10
86	Soils. <i>Ecological Studies</i> , 1992, , 108-141.	1.2	10
87	Surface Waters. <i>Ecological Studies</i> , 1992, , 142-186.	1.2	9
88	Differences between Nipher and Alter shielded Universal Belfort precipitation gages at two Colorado deposition monitoring sites. <i>Environmental Science & Technology</i> , 1990, 24, 758-760.	10.0	8
89	Meeting Ecological and Societal Needs for Freshwater. , 2002, 12, 1247.		7
90	Identifying factors that affect mountain lake sensitivity to atmospheric nitrogen deposition across multiple scales. <i>Water Research</i> , 2022, 209, 117883.	11.3	7

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91	Preface [to special section on Recent Loch Vale Watershed Research]. <i>Water Resources Research</i> , 2000, 36, 11-12.	4.2	6
92	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
93	Maintaining momentum for collaborative working groups in a post-pandemic world. <i>Nature Ecology and Evolution</i> , 2021, 5, 1188-1189.	7.8	6
94	ASSESSMENT OF CLIMATE CHANGE AND FRESHWATER ECOSYSTEMS OF THE ROCKY MOUNTAINS, USA AND CANADA. <i>Hydrological Processes</i> , 1997, 11, 903-924.	2.6	6
95	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
96	Research in National Parks1. , 2004, 14, 3-4.		4
97	Key Components and Contrasts in the Nitrogen Budget Across a U.S.â€Canadian Transboundary Watershed. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005577.	3.0	4
98	NITROGEN FLUXES IN A HIGH ELEVATION COLORADO ROCKY MOUNTAIN BASIN. <i>Hydrological Processes</i> , 1997, 11, 783-799.	2.6	4
99	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
100	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
101	Biogeochemical Fluxes. <i>Ecological Studies</i> , 1992, , 218-231.	1.2	3
102	Effects and Empirical Critical Loads of Nitrogen for Ecoregions of the United States. <i>Environmental Pollution</i> , 2015, , 129-169.	0.4	3
103	New ecological knowledge and practices for society and sustainability. <i>Frontiers in Ecology and the Environment</i> , 2007, 5, w5-w7.	4.0	2
104	EFFECTS OF MESOSCALE VEGETATION DISTRIBUTIONS IN MOUNTAINOUS TERRAIN ON LOCAL CLIMATE. , 0, , 121-135.		2
105	Ecosystem Structure and Function Modeling. , 2001, , 257-272.		2
106	Special Session at 100th Ecological Society of America Meeting in Baltimore, Maryland. <i>Bulletin of the Ecological Society of America</i> , 2016, 97, 123-128.	0.2	1
107	Nitrogen fluxes in a high elevation colorado rocky mountain basin. , 0, ,		1
108	Deposition. <i>Ecological Studies</i> , 1992, , 48-75.	1.2	1

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109	Response of Western Mountain Ecosystems to Climatic Variability and Change.: , 2011, , 163-190.		1
110	MEETING ECOLOGICAL AND SOCIETAL NEEDS FOR FRESHWATER. , 2002, 12, 1247.		1
111	How Much is too Much? Nitrogen Critical Loads and Eutrophication and Acidification in Oligotrophic Ecosystems. , 2014, , 305-310.		1
112	The INI North American Regional Nitrogen Center: 2011â€“2015 Nitrogen Activities in North America. , 2020, , 489-497.		1
113	Preface to Owen P. Bricker III Special Issue of Aquatic Geochemistry. Aquatic Geochemistry, 2014, 20, 81-86.	1.3	0
114	Henry Lewis Gholz, 1951â€“2017. Bulletin of the Ecological Society of America, 2018, 99, 48-51.	0.2	0
115	A more representative community of ecologists. Ecological Applications, 2021, 31, e02353.	3.8	0