

Diane M Mcknight

List of Publications by Year in descending order

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256
papers

22,091
citations

9786

73
h-index

10734

138
g-index

267
all docs

267
docs citations

267
times ranked

15500
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectrofluorometric characterization of dissolved organic matter for indication of precursor organic material and aromaticity. <i>Limnology and Oceanography</i> , 2001, 46, 38-48.	3.1	2,239
2	Lakes and reservoirs as regulators of carbon cycling and climate. <i>Limnology and Oceanography</i> , 2009, 54, 2298-2314.	3.1	1,977
3	Fluorescence Spectroscopy Reveals Ubiquitous Presence of Oxidized and Reduced Quinones in Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2005, 39, 8142-8149.	10.0	1,313
4	Quinone Moieties Act as Electron Acceptors in the Reduction of Humic Substances by Humics-Reducing Microorganisms. <i>Environmental Science & Technology</i> , 1998, 32, 2984-2989.	10.0	703
5	Hydrological controls on dissolved organic carbon during snowmelt in the Snake River near Montezuma, Colorado. <i>Biogeochemistry</i> , 1994, 25, 147-165.	3.5	442
6	Characterization of DOM as a function of MW by fluorescence EEM and HPLC-SEC using UVA, DOC, and fluorescence detection. <i>Water Research</i> , 2003, 37, 4295-4303.	11.3	437
7	Antarctic climate cooling and terrestrial ecosystem response. <i>Nature</i> , 2002, 415, 517-520.	27.8	399
8	Response characteristics of DOC flushing in an alpine catchment. , 1997, 11, 1635-1647.		360
9	Sorption of dissolved organic carbon by hydrous aluminum and iron oxides occurring at the confluence of Deer Creek with the Snake River, Summit County, Colorado. <i>Environmental Science & Technology</i> , 1992, 26, 1388-1396.	10.0	337
10	Iron Photoreduction and Oxidation in an Acidic Mountain Stream. <i>Science</i> , 1988, 240, 637-640.	12.6	256
11	The river as a chemostat: fresh perspectives on dissolved organic matter flowing down the river continuum. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2015, 72, 1272-1285.	1.4	242
12	Aquatic fulvic acids in algal-rich antarctic ponds. <i>Limnology and Oceanography</i> , 1994, 39, 1972-1979.	3.1	234
13	Global change-driven effects on dissolved organic matter composition: Implications for food webs of northern lakes. <i>Global Change Biology</i> , 2018, 24, 3692-3714.	9.5	229
14	Release of weak and strong copper-complexing agents by algae1. <i>Limnology and Oceanography</i> , 1979, 24, 823-837.	3.1	203
15	Ancient low-molecular-weight organic acids in permafrost fuel rapid carbon dioxide production upon thaw. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13946-13951.	7.1	201
16	Dissolved Organic Matter Sources and Consequences for Iron and Arsenic Mobilization in Bangladesh Aquifers. <i>Environmental Science & Technology</i> , 2010, 44, 123-128.	10.0	196
17	Dry Valley Streams in Antarctica: Ecosystems Waiting for Water. <i>BioScience</i> , 1999, 49, 985-995.	4.9	186
18	Carbon limitation of soil respiration under winter snowpacks: potential feedbacks between growing season and winter carbon fluxes. <i>Global Change Biology</i> , 2005, 11, 231-238.	9.5	185

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19	Title is missing!. Biogeochemistry, 1997, 36, 99-124.	3.5	175
20	Chemical characteristics of fulvic acids from Arctic surface waters: Microbial contributions and photochemical transformations. Journal of Geophysical Research, 2007, 112, .	3.3	168
21	Biogeochemistry of Aquatic Humic Substances in Thoreau's Bog, Concord, Massachusetts. Ecology, 1985, 66, 1339-1352.	3.2	159
22	Microbial life at ~13 °C in the brine of an ice-sealed Antarctic lake. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20626-20631.	7.1	151
23	The relationship between soil heterotrophic activity, soil dissolved organic carbon (DOC) leachate, and catchment-scale DOC export in headwater catchments. Water Resources Research, 1999, 35, 1895-1902.	4.2	149
24	Environmental and Agricultural Relevance of Humic Fractions Extracted by Alkali from Soils and Natural Waters. Journal of Environmental Quality, 2019, 48, 217-232.	2.0	148
25	Physical Controls on the Taylor Valley Ecosystem, Antarctica. BioScience, 1999, 49, 961-971.	4.9	147
26	Probing the oxidation–reduction properties of terrestrially and microbially derived dissolved organic matter. Geochimica Et Cosmochimica Acta, 2007, 71, 3003-3015.	3.9	143
27	Dissolved Organic Matter Quality in a Shallow Aquifer of Bangladesh: Implications for Arsenic Mobility. Environmental Science & Technology, 2015, 49, 10815-10824.	10.0	143
28	Fulvic Acid Oxidation State Detection Using Fluorescence Spectroscopy. Environmental Science & Technology, 2002, 36, 3170-3175.	10.0	141
29	Sources of dissolved organic matter (DOM) in a Rocky Mountain stream using chemical fractionation and stable isotopes. Biogeochemistry, 2005, 74, 231-255.	3.5	139
30	ASSESSMENT OF CLIMATE CHANGE AND FRESHWATER ECOSYSTEMS OF THE ROCKY MOUNTAINS, USA AND CANADA. Hydrological Processes, 1997, 11, 903-924.	2.6	138
31	Weathering reactions and hyporheic exchange controls on stream water chemistry in a glacial meltwater stream in the McMurdo Dry Valleys. Water Resources Research, 2002, 38, 15-1-15-17.	4.2	135
32	Hydrologic response to extreme warm and cold summers in the McMurdo Dry Valleys, East Antarctica. Antarctic Science, 2008, 20, 499-509.	0.9	128
33	Physical Controls on the Taylor Valley Ecosystem, Antarctica. BioScience, 1999, 49, 961.	4.9	128
34	Copper Speciation and Binding by Organic Matter in Copper-Contaminated Streamwater. Environmental Science & Technology, 1996, 30, 3477-3486.	10.0	126
35	Inorganic N and P dynamics of Antarctic glacial meltwater streams as controlled by hyporheic exchange and benthic autotrophic communities. Journal of the North American Benthological Society, 2004, 23, 171-188.	3.1	124
36	Copper complexation by siderophores from filamentous blue–green algae. Limnology and Oceanography, 1980, 25, 62-71.	3.1	122

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37	Overview of a simple model describing variation of dissolved organic carbon in an upland catchment. <i>Ecological Modelling</i> , 1996, 86, 183-188.	2.5	121
38	Analysis of Transient Storage Subject to Unsteady Flow: Diel Flow Variation in an Antarctic Stream. <i>Journal of the North American Benthological Society</i> , 1998, 17, 143-154.	3.1	120
39	Characterization of transport in an acidic and metal-rich mountain stream based on a lithium tracer injection and simulations of transient storage. <i>Water Resources Research</i> , 1990, 26, 989-1000.	4.2	118
40	Sources and Age of Aquatic Humus. <i>Ecological Studies</i> , 1998, , 9-39.	1.2	118
41	Aquatic fulvic acids in microbially based ecosystems: Results from two desert lakes in Antarctica. <i>Limnology and Oceanography</i> , 1991, 36, 998-1006.	3.1	116
42	Dry Valley Streams in Antarctica: Ecosystems Waiting for Water. <i>BioScience</i> , 1999, 49, 985.	4.9	116
43	Effect of instrument-specific response on the analysis of fulvic acid fluorescence spectra. <i>Limnology and Oceanography: Methods</i> , 2010, 8, 67-78.	2.0	113
44	Effects of asynchronous snowmelt on flushing of dissolved organic carbon: a mixing model approach. <i>Hydrological Processes</i> , 2000, 14, 3291-3308.	2.6	109
45	New Insights into the Source of Decadal Increases of Dissolved Organic Matter in Acid-Sensitive Lakes of the Northeastern United States. <i>Environmental Science & Technology</i> , 2012, 46, 3212-3219.	10.0	109
46	The Landscape Continuum: A Model for High-Elevation Ecosystems. <i>BioScience</i> , 2004, 54, 111.	4.9	107
47	Climate-Change-Driven Deterioration of Water Quality in a Mineralized Watershed. <i>Environmental Science & Technology</i> , 2012, 46, 9324-9332.	10.0	107
48	Characterization of IHSS Pony Lake fulvic acid dissolved organic matter by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry and fluorescence spectroscopy. <i>Organic Geochemistry</i> , 2013, 65, 19-28.	1.8	107
49	Sources and chemical character of dissolved organic carbon across an alpine/subalpine ecotone, Green Lakes Valley, Colorado Front Range, United States. <i>Water Resources Research</i> , 2003, 39, .	4.2	104
50	Effect of instrument-specific response on the analysis of fulvic acid fluorescence spectra. <i>Limnology and Oceanography: Methods</i> , 2010, 8, 67-78.	2.0	104
51	The ecological effect of acid conditions and precipitation of hydrous metal oxides in a Rocky Mountain stream. <i>Hydrobiologia</i> , 1984, 119, 129-138.	2.0	102
52	Denitrification and hydrologic transient storage in a glacial meltwater stream, McMurdo Dry Valleys, Antarctica. <i>Limnology and Oceanography</i> , 2004, 49, 1884-1895.	3.1	101
53	Spatial variations in the geochemistry of glacial meltwater streams in the Taylor Valley, Antarctica. <i>Antarctic Science</i> , 2010, 22, 662-672.	0.9	100
54	PHYTOPLANKTON DYNAMICS IN A STABLY STRATIFIED ANTARCTIC LAKE DURING WINTER DARKNESS. <i>Journal of Phycology</i> , 2000, 36, 852-861.	2.3	99

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55	LITTER BREAKDOWN IN MOUNTAIN STREAMS AFFECTED BY MINE DRAINAGE: BIOTIC MEDIATION OF ABIOTIC CONTROLS. , 2001, 11, 506-516.		97
56	Determining long time-scale hyporheic zone flow paths in Antarctic streams. Hydrological Processes, 2003, 17, 1691-1710.	2.6	97
57	Biogeochemical stoichiometry of Antarctic Dry Valley ecosystems. Journal of Geophysical Research, 2007, 112, .	3.3	97
58	Complexation of copper by aquatic humic substances from different environments. Science of the Total Environment, 1983, 28, 65-76.	8.0	96
59	Climate regulates alpine lake ice cover phenology and aquatic ecosystem structure. Geophysical Research Letters, 2016, 43, 5353-5360.	4.0	93
60	Direct observations of aluminosilicate weathering in the hyporheic zone of an Antarctic Dry Valley stream. Geochimica Et Cosmochimica Acta, 2002, 66, 1335-1347.	3.9	90
61	Effects of annual flooding on dissolved organic carbon dynamics within a pristine wetland, the Okavango Delta, Botswana. Wetlands, 2005, 25, 622-638.	1.5	89
62	Characterization of a nitrogen-rich fulvic acid and its precursor algae from solid state NMR. Organic Geochemistry, 2007, 38, 1277-1292.	1.8	89
63	Comparison of seasonal changes in fluorescent dissolved organic matter among aquatic lake and stream sites in the Green Lakes Valley. Journal of Geophysical Research, 2010, 115, .	3.3	89
64	Conservative and reactive solute transport in constructed wetlands. Water Resources Research, 2004, 40, .	4.2	87
65	Hyporheic Exchange and Fulvic Acid Redox Reactions in an Alpine Stream/Wetland Ecosystem, Colorado Front Range. Environmental Science & Technology, 2006, 40, 5943-5949.	10.0	85
66	Chemical characterization of dissolved organic material in Pony Lake, a saline coastal pond in Antarctica. Marine Chemistry, 2004, 89, 327-337.	2.3	84
67	Geochemistry of aquatic humic substances in the Lake Fryxell Basin, Antarctica. Biogeochemistry, 1996, 34, 157.	3.5	82
68	Spectrofluorescence of Sediment Humic Substances and Historical Changes of Lacustrine Organic Matter Provenance in Response to Atmospheric Nutrient Enrichment. Environmental Science & Technology, 2002, 36, 3217-3223.	10.0	81
69	Ecological Legacies: Impacts on Ecosystems of the McMurdo Dry Valleys. BioScience, 1999, 49, 1009-1019.	4.9	80
70	Sources and fates of dissolved organic carbon in lakes as determined by whole-lake carbon isotope additions. Biogeochemistry, 2007, 84, 115-129.	3.5	80
71	Reactive solute transport in streams: A surface complexation approach for trace metal sorption. Water Resources Research, 1999, 35, 3829-3840.	4.2	79
72	Decadal ecosystem response to an anomalous melt season in a polar desert in Antarctica. Nature Ecology and Evolution, 2017, 1, 1334-1338.	7.8	79

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73	Coupling of Hydrologic Transport and Chemical Reactions in a Stream Affected by Acid Mine Drainage. <i>Environmental Science & Technology</i> , 1994, 28, 2065-2073.	10.0	78
74	Binding of Polychlorinated Biphenyls to Aquatic Humic Substances: The Role of Substrate and Sorbate Properties on Partitioning. <i>Environmental Science & Technology</i> , 1999, 33, 2715-2718.	10.0	78
75	Reactivation of a cryptobiotic stream ecosystem in the McMurdo Dry Valleys, Antarctica: A long-term geomorphological experiment. <i>Geomorphology</i> , 2007, 89, 186-204.	2.6	77
76	Identifying fluorescent pulp mill effluent in the Gulf of Maine and its watershed. <i>Marine Pollution Bulletin</i> , 2012, 64, 1678-1687.	5.0	76
77	CuSO ₄ treatment of nuisance algal blooms in drinking water reservoirs. <i>Environmental Management</i> , 1983, 7, 311-320.	2.7	75
78	Reactive Solute Transport in an Acidic Stream: Experimental pH Increase and Simulation of Controls on pH, Aluminum, and Iron. <i>Environmental Science & Technology</i> , 1996, 30, 3016-3024.	10.0	75
79	From the litter layer to the saprolite: Chemical changes in water-soluble soil organic matter and their correlation to microbial community composition. <i>Soil Biology and Biochemistry</i> , 2014, 68, 166-176.	8.8	75
80	The chemistry of iron, aluminum and dissolved organic material in three acidic metal-enriched, mountain stream processes. <i>Water Resources Research</i> , 1990, 26, 3087-3100.	4.2	75
81	Title is missing!. <i>Journal of Paleolimnology</i> , 1996, 17, 403-420.	1.6	74
82	Surface glaciochemistry of Taylor Valley, southern Victoria Land, Antarctica and its relationship to stream chemistry. <i>Hydrological Processes</i> , 2003, 17, 115-130.	2.6	74
83	Hydrologic controls on the transport and cycling of carbon and nitrogen in a boreal catchment underlain by continuous permafrost. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 698-712.	3.0	74
84	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
85	Freshwater Ecosystems and Their Management: A National Initiative. <i>Science</i> , 1995, 270, 584-585.	12.6	73
86	Influences of water and substrate quality for periphyton in a montane stream affected by acid mine drainage. <i>Limnology and Oceanography</i> , 1999, 44, 804-809.	3.1	71
87	A model of degradation and production of three pools of dissolved organic matter in an alpine lake. <i>Limnology and Oceanography</i> , 2009, 54, 2213-2227.	3.1	71
88	Microbial formation of labile organic carbon in Antarctic glacial environments. <i>Nature Geoscience</i> , 2017, 10, 356-359.	12.9	70
89	Dissolved fulvic acids from a high arsenic aquifer shuttle electrons to enhance microbial iron reduction. <i>Science of the Total Environment</i> , 2018, 615, 1390-1395.	8.0	70
90	Effects of Spatial Variability and Relic DNA Removal on the Detection of Temporal Dynamics in Soil Microbial Communities. <i>MBio</i> , 2020, 11, .	4.1	70

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91	The ecology of pulse events: insights from an extreme climatic event in a polar desert ecosystem. <i>Ecosphere</i> , 2012, 3, 1-15.	2.2	69
92	Phosphate dynamics in an acidic mountain stream: Interactions involving algal uptake, sorption by iron oxide, and photoreduction. <i>Limnology and Oceanography</i> , 1995, 40, 938-946.	3.1	67
93	Phytoplankton population dynamics in perennially ice-covered Lake Fryxell, Antarctica. <i>Journal of Plankton Research</i> , 1994, 16, 527-541.	1.8	66
94	Evaluation of natural tracers in an acidic and metal-rich stream. <i>Water Resources Research</i> , 1987, 23, 827-836.	4.2	65
95	Experimental investigations into processes controlling stream and hyporheic temperatures, Fryxell Basin, Antarctica. <i>Advances in Water Resources</i> , 2006, 29, 130-153.	3.8	63
96	Reactive iron transport in an acidic mountain stream in Summit County, Colorado: A hydrologic perspective. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 2225-2234.	3.9	62
97	The microbial plankton of Lake Fryxell, southern Victoria Land, Antarctica during the summers of 1992 and 1994. <i>Polar Biology</i> , 1997, 17, 54-61.	1.2	61
98	Redox Processes Controlling Manganese Fate and Transport in a Mountain Stream. <i>Environmental Science & Technology</i> , 2002, 36, 453-459.	10.0	61
99	A Stable Isotopic Investigation of a Polar Desert Hydrologic System, McMurdo Dry Valleys, Antarctica. <i>Arctic, Antarctic, and Alpine Research</i> , 2006, 38, 60-71.	1.1	61
100	Photooxidation of wetland and riverine dissolved organic matter: altered copper complexation and organic composition. <i>Hydrobiologia</i> , 2007, 579, 95-113.	2.0	61
101	pH dependence of iron photoreduction in a rocky mountain stream affected by acid mine drainage. <i>Hydrological Processes</i> , 2001, 15, 1979-1992.	2.6	60
102	Inland diatoms from the McMurdo Dry Valleys and James Ross Island, Antarctica. <i>Botany</i> , 2008, 86, 1378-1392.	1.0	59
103	New light on a dark subject: comment. <i>Aquatic Sciences</i> , 2010, 72, 269-275.	1.5	59
104	Using Humic Fractions to Understand Natural Organic Matter Processes in Soil and Water: Selected Studies and Applications. <i>Journal of Environmental Quality</i> , 2019, 48, 1633-1643.	2.0	59
105	In-stream sorption of fulvic acid in an acidic stream: A stream-scale transport experiment. <i>Water Resources Research</i> , 2002, 38, 6-1-6-12.	4.2	58
106	Communicating with the public: opportunities and rewards for individual ecologists. <i>Frontiers in Ecology and the Environment</i> , 2010, 8, 292-298.	4.0	58
107	Ecological Legacies: Impacts on Ecosystems of the McMurdo Dry Valleys. <i>BioScience</i> , 1999, 49, 1009.	4.9	58
108	Diel Variations in Iron Chemistry in an Acidic Stream in the Colorado Rocky Mountains, U.S.A.. <i>Arctic and Alpine Research</i> , 1988, 20, 492.	1.3	57

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109	Rapid runoff via shallow throughflow and deeper preferential flow in a boreal catchment underlain by frozen silt (Alaska, USA). <i>Hydrogeology Journal</i> , 2013, 21, 93-106.	2.1	57
110	Phytoplankton Dynamics in Three Rocky Mountain Lakes, Colorado, U.S.A.. <i>Arctic and Alpine Research</i> , 1990, 22, 264.	1.3	54
111	Canada Stream: A Glacial Meltwater Stream in Taylor Valley, South Victoria Land, Antarctica. <i>Journal of the North American Benthological Society</i> , 1997, 16, 14-17.	3.1	51
112	Changes in fulvic acid redox state through the oxycline of a permanently ice-covered Antarctic lake. <i>Aquatic Sciences</i> , 2004, 66, 27-46.	1.5	51
113	Antarctic climate cooling and response of diatoms in glacial meltwater streams. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	51
114	Chemical characterization of DOM in channels of a seasonal wetland. <i>Aquatic Sciences</i> , 2007, 69, 456-471.	1.5	51
115	Hydrologic processes influence diatom community composition in Dry Valley streams. <i>Journal of the North American Benthological Society</i> , 2011, 30, 1057-1073.	3.1	51
116	Hydrological Connectivity of the Landscape of the McMurdo Dry Valleys, Antarctica. <i>Geography Compass</i> , 2011, 5, 666-681.	2.7	50
117	Seasonal relationships between planktonic microorganisms and dissolved organic material in an alpine stream. <i>Biogeochemistry</i> , 1993, 21, 39-59.	3.5	49
118	Diel variation in element concentrations, Peru Creek, Summit County, Colorado. <i>Journal of Geochemical Exploration</i> , 1998, 64, 141-145.	3.2	49
119	Stratification and dynamics of microbial loop communities in Lake Fryxell, Antarctica. <i>Freshwater Biology</i> , 2000, 44, 649-661.	2.4	49
120	Alpine lake optical properties as sentinels of dust deposition and global change. <i>Limnology and Oceanography</i> , 2009, 54, 2386-2400.	3.1	49
121	Effects of short-term drying and irrigation on CO ₂ and CH ₄ production and emission from mesocosms of a northern bog and an alpine fen. <i>Biogeochemistry</i> , 2010, 100, 89-103.	3.5	49
122	Abiotic and biotic factors influencing the mobility of arsenic in groundwater of a through-flow island in the Okavango Delta, Botswana. <i>Journal of Hydrology</i> , 2014, 518, 326-341.	5.4	49
123	Fluorescence Indices and Their Interpretation. , 2014, , 303-338.		49
124	Life in the Main Channel: Long-Term Hydrologic Control of Microbial Mat Abundance in McMurdo Dry Valley Streams, Antarctica. <i>Ecosystems</i> , 2015, 18, 310-327.	3.4	49
125	Bacterial dissolved organic carbon demand in McMurdo Dry Valley lakes, Antarctica. <i>Limnology and Oceanography</i> , 2001, 46, 1189-1194.	3.1	48
126	Seasonal Variability of Metals Transport through a Wetland Impacted by Mine Drainage in the Rocky Mountains. <i>Environmental Science & Technology</i> , 2002, 36, 3779-3786.	10.0	48

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127	Sensitivity analysis of conservative and reactive stream transient storage models applied to field data from multiple-reach experiments. <i>Advances in Water Resources</i> , 2005, 28, 479-492.	3.8	47
128	Characterizing chlorine oxidation of dissolved organic matter and disinfection by-product formation with fluorescence spectroscopy and parallel factor analysis. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	46
129	Spatial and Temporal Active Layer Dynamics along Three Glacial Meltwater Streams in the McMurdo Dry Valleys, Antarctica. <i>Arctic, Antarctic, and Alpine Research</i> , 2006, 38, 42-53.	1.1	45
130	Hydrologic Processes Influencing Streamflow Variation in Fryxell Basin, Antarctica. <i>Antarctic Research Series</i> , 2013, , 93-108.	0.2	45
131	Bacteria and diatom co-occurrence patterns in microbial mats from polar desert streams. <i>Environmental Microbiology</i> , 2013, 15, 1115-1131.	3.8	44
132	Reactive Solute Transport in Streams: 2. Simulation of a p H Modification Experiment. <i>Water Resources Research</i> , 1996, 32, 419-430.	4.2	43
133	Chemical and biological processes controlling the response of a freshwater ecosystem to copper stress: A field study of the CuSO ₄ treatment of Mill Pond Reservoir, Burlington, Massachusetts. <i>Limnology and Oceanography</i> , 1981, 26, 518-531.	3.1	42
134	Photochemical control of copper complexation by dissolved organic matter in Rocky Mountain streams, Colorado. <i>Limnology and Oceanography</i> , 2007, 52, 766-779.	3.1	42
135	Factors controlling streambed coverage of <i>Didymosphenia geminata</i> in two regulated streams in the Colorado Front Range. <i>Hydrobiologia</i> , 2009, 630, 207-218.	2.0	42
136	Diel flow pulses drive particulate organic matter transport from microbial mats in a glacial meltwater stream in the McMurdo Dry Valleys. <i>Water Resources Research</i> , 2014, 50, 86-97.	4.2	41
137	Patterns of bacterial biodiversity in the glacial meltwater streams of the McMurdo Dry Valleys, Antarctica. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw148.	2.7	41
138	Chemical and biological processes controlling the response of a freshwater ecosystem to copper stress: A field study of the CuSO ₄ treatment of Mill Pond Reservoir, Burlington, Massachusetts. <i>Limnology and Oceanography</i> , 1981, 26, 618-531.	3.1	40
139	Patterns of hydrologic connectivity in the McMurdo Dry Valleys, Antarctica: a synthesis of 20 years of hydrologic data. <i>Hydrological Processes</i> , 2016, 30, 2958-2975.	2.6	39
140	Freshwater diatom biogeography and the genus <i>Luticola</i> : an extreme case of endemism in Antarctica. <i>Polar Biology</i> , 2017, 40, 1185-1196.	1.2	39
141	Influence of Leaching Solution and Catchment Location on the Fluorescence of Water-Soluble Organic Matter. <i>Environmental Science & Technology</i> , 2015, 49, 4425-4432.	10.0	38
142	Dissolved organic matter transport reflects hillslope to stream connectivity during snowmelt in a montane catchment. <i>Water Resources Research</i> , 2016, 52, 4905-4923.	4.2	38
143	Environmental factors influencing diatom communities in Antarctic cryoconite holes. <i>Environmental Research Letters</i> , 2013, 8, 045006.	5.2	36
144	Hydrologic connectivity and implications for ecosystem processes - Lessons from naked watersheds. <i>Geomorphology</i> , 2017, 277, 63-71.	2.6	36

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145	A temperature-index model of stream flow at below-freezing temperatures in Taylor Valley, Antarctica. <i>Annals of Glaciology</i> , 2005, 40, 76-82.	1.4	35
146	The Chemistry of Iron, Aluminum, and Dissolved Organic Material in Three Acidic, Metal-Enriched, Mountain Streams, as Controlled by Watershed and in-Stream Processes. <i>Water Resources Research</i> , 1990, 26, 3087-3100.	4.2	34
147	Dissolved black carbon in the global cryosphere: Concentrations and chemical signatures. <i>Geophysical Research Letters</i> , 2017, 44, 6226-6234.	4.0	34
148	Dissolved organic matter accumulation, reactivity, and redox state in ground water of a recharge wetland. <i>Wetlands</i> , 2008, 28, 747-759.	1.5	33
149	Effects of Short-Term Drying and Irrigation on Electron Flow in Mesocosms of a Northern Bog and an Alpine Fen. <i>Environmental Science & Technology</i> , 2010, 44, 80-86.	10.0	33
150	High Pressure Size Exclusion Chromatography (HPSEC) Determination of Dissolved Organic Matter Molecular Weight Revisited: Accounting for Changes in Stationary Phases, Analytical Standards, and Isolation Methods. <i>Environmental Science & Technology</i> , 2018, 52, 722-730.	10.0	33
151	Transport and cycling of iron and hydrogen peroxide in a freshwater stream: Influence of organic acids. <i>Water Resources Research</i> , 2003, 39, .	4.2	32
152	Nutrient treatments alter microbial mat colonization in two glacial meltwater streams from the McMurdo Dry Valleys, Antarctica. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw049.	2.7	32
153	Evidence for dispersal and habitat controls on pond diatom communities from the McMurdo Sound Region of Antarctica. <i>Polar Biology</i> , 2016, 39, 2441-2456.	1.2	31
154	Diatoms as indicators of environmental change in Antarctic and subantarctic freshwaters. , 2010, , 267-284.		31
155	Production of microbially-derived fulvic acid from photolysis of quinone-containing extracellular products of phytoplankton. <i>Aquatic Sciences</i> , 2009, 71, 170-178.	1.5	30
156	Longitudinal Patterns in Algal Abundance and Species Distribution In Meltwater Streams In Taylor Valley, Southern Victoria Land, Antarctica. <i>Antarctic Research Series</i> , 0, , 109-127.	0.2	30
157	Effects of Nutrient Enrichment on Phytoplankton in an Alpine Lake, Colorado, U.S.A. <i>Arctic, Antarctic, and Alpine Research</i> , 2008, 40, 55-64.	1.1	29
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