

Michael Gooseff

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

146
papers

6,276
citations

47
h-index

73
g-index

159
ext. papers

7,163
ext. citations

4.3
avg, IF

5.92
L-index

#	Paper	IF	Citations
146	Counting Carbon: Quantifying Biomass in the McMurdo Dry Valleys through Orbital & Field Observations. <i>International Journal of Remote Sensing</i> , 2021 , 42, 8597-8623	3.1	0
145	The Seasonality of In-Stream Nutrient Concentrations and Uptake in Arctic Headwater Streams in the Northern Foothills of Alaska's Brooks Range. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2020JG005949	3.7	1
144	Connectivity: insights from the U.S. Long Term Ecological Research Network. <i>Ecosphere</i> , 2021 , 12, e03433	3.1	1
143	The Role of Hyporheic Connectivity in Determining Nitrogen Availability: Insights From an Intermittent Antarctic Stream. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2021JG006309	3.7	1
142	Aufeis fields as novel groundwater-dependent ecosystems in the arctic cryosphere. <i>Limnology and Oceanography</i> , 2021 , 66, 607-624	4.8	4
141	Chemical Weathering in the McMurdo Dry Valleys, Antarctica. <i>Geophysical Monograph Series</i> , 2021 , 205-216	3.1	3
140	Diatoms in Hyporheic Sediments Trace Organic Matter Retention and Processing in the McMurdo Dry Valleys, Antarctica. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126,	3.7	1
139	Long-term shifts in feedbacks among glacier surface change, melt generation and runoff, McMurdo Dry Valleys, Antarctica. <i>Hydrological Processes</i> , 2021 , 35, e14292	3.3	2
138	The seasonal evolution of albedo across glaciers and the surrounding landscape of Taylor Valley, Antarctica. <i>Cryosphere</i> , 2020 , 14, 769-788	5.5	7
137	Seasonal Subsurface Thaw Dynamics of an Aufeis Feature Inferred From Geophysical Methods. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020 , 125, e2019JF005345	3.8	6
136	Evaluating spatiotemporal variation in water chemistry of the upper Colorado River using longitudinal profiling. <i>Hydrological Processes</i> , 2020 , 34, 1782-1793	3.3	4
135	Nutrient Uptake in the Supraglacial Stream Network of an Antarctic Glacier. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2020JG005679	3.7	2
134	Spiraling Down Hillslopes: Nutrient Uptake from Water Tracks in a Warming Arctic. <i>Ecosystems</i> , 2019 , 22, 1546-1560	3.9	15
133	Flow Extremes as Spatiotemporal Control Points on River Solute Fluxes and Metabolism. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 537-555	3.7	13
132	Geomorphic Controls on Hyporheic Exchange Across Scales Watersheds to Particles 2019 ,		1
131	The Hydroecology of an Ephemeral Wetland in the McMurdo Dry Valleys, Antarctica. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 3814-3830	3.7	3
130	The polar regions in a 2°C warmer world. <i>Science Advances</i> , 2019 , 5, eaaw9883	14.3	144

129	Hydrologic flow path development varies by aspect during spring snowmelt in complex subalpine terrain. <i>Cryosphere</i> , 2018 , 12, 287-300	5.5	20
128	Soil Moisture Controls the Thermal Habitat of Active Layer Soils in the McMurdo Dry Valleys, Antarctica. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 46-59	3.7	13
127	Transit Times and Rapid Chemical Equilibrium Explain Chemostasis in Glacial Meltwater Streams in the McMurdo Dry Valleys, Antarctica. <i>Geophysical Research Letters</i> , 2018 , 45, 13,322	4.9	14
126	Decadal topographic change in the McMurdo Dry Valleys of Antarctica: Thermokarst subsidence, glacier thinning, and transfer of water storage from the cryosphere to the hydrosphere. <i>Geomorphology</i> , 2018 , 323, 80-97	4.3	15
125	The Presence of Hydraulic Barriers in Layered Snowpacks: TOUGH2 Simulations and Estimated Diversion Lengths. <i>Transport in Porous Media</i> , 2018 , 123, 457-476	3.1	13
124	Hydrologic connectivity and implications for ecosystem processes - Lessons from naked watersheds. <i>Geomorphology</i> , 2017 , 277, 63-71	4.3	26
123	Impacts of permafrost degradation on a stream in Taylor Valley, Antarctica. <i>Geomorphology</i> , 2017 , 285, 205-213	4.3	5
122	Defining the Diurnal Pattern of Snowmelt Using a Beta Distribution Function. <i>Journal of the American Water Resources Association</i> , 2017 , 53, 684-696	2.1	9
121	Dynamic hyporheic and riparian flow path geometry through base flow recession in two headwater mountain stream corridors. <i>Water Resources Research</i> , 2017 , 53, 3988-4003	5.4	24
120	Characterizing hyporheic exchange processes using high-frequency electrical conductivity-discharge relationships on subhourly to interannual timescales. <i>Water Resources Research</i> , 2017 , 53, 4124-4141	5.4	11
119	Stream tracer breakthrough curve decomposition into mass fractions: A simple framework to analyze and compare conservative solute transport processes. <i>Limnology and Oceanography: Methods</i> , 2017 , 15, 140-153	2.6	11
118	Decadal ecosystem response to an anomalous melt season in a polar desert in Antarctica. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1334-1338	12.3	46
117	Potential for Small Unmanned Aircraft Systems Applications for Identifying Groundwater-Surface Water Exchange in a Meandering River Reach. <i>Geophysical Research Letters</i> , 2017 , 44, 11,868	4.9	25
116	High-resolution elevation mapping of the McMurdo Dry Valleys, Antarctica, and surrounding regions. <i>Earth System Science Data</i> , 2017 , 9, 435-443	10.5	19
115	Primary productivity as a control over soil microbial diversity along environmental gradients in a polar desert ecosystem. <i>PeerJ</i> , 2017 , 5, e3377	3.1	10
114	The Impact of a Large-Scale Climate Event on Antarctic Ecosystem Processes. <i>BioScience</i> , 2016 , 66, 848-863	5.7	37
113	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	3.3	24
112	Stream biogeochemical and suspended sediment responses to permafrost degradation in stream banks in Taylor Valley, Antarctica. <i>Biogeosciences</i> , 2016 , 13, 1723-1732	4.6	12

111	Microbial Community Responses to Increased Water and Organic Matter in the Arid Soils of the McMurdo Dry Valleys, Antarctica. <i>Frontiers in Microbiology</i> , 2016 , 7, 1040	5.7	31
110	Hydrological Controls on Ecosystem Dynamics in Lake Fryxell, Antarctica. <i>PLoS ONE</i> , 2016 , 11, e0159038	3.7	1
109	Responses of Antarctic Marine and Freshwater Ecosystems to Changing Ice Conditions. <i>BioScience</i> , 2016 , 66, 864-879	5.7	33
108	Hydrogeomorphic controls on hyporheic and riparian transport in two headwater mountain streams during base flow recession. <i>Water Resources Research</i> , 2016 , 52, 1479-1497	5.4	28
107	Management of Large Wood in Streams: An Overview and Proposed Framework for Hazard Evaluation. <i>Journal of the American Water Resources Association</i> , 2016 , 52, 315-335	2.1	62
106	Lake Vanda: A sentinel for climate change in the McMurdo Sound Region of Antarctica. <i>Global and Planetary Change</i> , 2016 , 144, 213-227	4.2	31
105	Spatiotemporal dynamics of wetted soils across a polar desert landscape. <i>Antarctic Science</i> , 2015 , 27, 197-209	1.7	9
104	Recovery of Antarctic stream epilithon from simulated scouring events. <i>Antarctic Science</i> , 2015 , 27, 341-354	3.4	8
103	River corridor science: Hydrologic exchange and ecological consequences from bedforms to basins. <i>Water Resources Research</i> , 2015 , 51, 6893-6922	5.4	207
102	Potential for real-time understanding of coupled hydrologic and biogeochemical processes in stream ecosystems: Future integration of telemetered data with process models for glacial meltwater streams. <i>Water Resources Research</i> , 2015 , 51, 6725-6738	5.4	6
101	Niche and metabolic principles explain patterns of diversity and distribution: theory and a case study with soil bacterial communities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015 , 282, 20142630	4.4	30
100	Groundwater-surface-water interactions: current research directions. <i>Freshwater Science</i> , 2015 , 34, 92-98	2	14
99	A field comparison of multiple techniques to quantify groundwater-surface-water interactions. <i>Freshwater Science</i> , 2015 , 34, 139-160	2	57
98	Wetting and Drying Variability of the Shallow Subsurface Beneath a Snowpack in California's Southern Sierra Nevada. <i>Vadose Zone Journal</i> , 2015 , 14, vzj2014.12.0182	2.7	14
97	Bacterial community composition of divergent soil habitats in a polar desert. <i>FEMS Microbiology Ecology</i> , 2014 , 89, 490-4	4.3	32
96	Soil microbial responses to increased moisture and organic resources along a salinity gradient in a polar desert. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 3034-43	4.8	103
95	Nitrate uptake dynamics of surface transient storage in stream channels and fluvial wetlands. <i>Biogeochemistry</i> , 2014 , 120, 239-257	3.8	24
94	Spatially distributed characterization of hyporheic solute transport during baseflow recession in a headwater mountain stream using electrical geophysical imaging. <i>Journal of Hydrology</i> , 2014 , 517, 362-377	6	23

93	Water track modification of soil ecosystems in the Lake Hoare basin, Taylor Valley, Antarctica. <i>Antarctic Science</i> , 2014 , 26, 153-162	1.7	15
92	Characterization of growing bacterial populations in McMurdo Dry Valley soils through stable isotope probing with (18) O-water. <i>FEMS Microbiology Ecology</i> , 2014 , 89, 415-25	4.3	31
91	The McMurdo Dry Valleys: A landscape on the threshold of change. <i>Geomorphology</i> , 2014 , 225, 25-35	4.3	61
90	How does subsurface characterization affect simulations of hyporheic exchange?. <i>Ground Water</i> , 2013 , 51, 14-28	2.4	25
89	How does rapidly changing discharge during storm events affect transient storage and channel water balance in a headwater mountain stream?. <i>Water Resources Research</i> , 2013 , 49, 5473-5486	5.4	48
88	Variations in surface water-ground water interactions along a headwater mountain stream: Comparisons between transient storage and water balance analyses. <i>Water Resources Research</i> , 2013 , 49, 3359-3374	5.4	60
87	Shallow groundwater systems in a polar desert, McMurdo Dry Valleys, Antarctica. <i>Hydrogeology Journal</i> , 2013 , 21, 171-183	3.1	34
86	Hyporheic Restoration in Streams and Rivers. <i>Geophysical Monograph Series</i> , 2013 , 167-187	1.1	12
85	Do transient storage parameters directly scale in longer, combined stream reaches? Reach length dependence of transient storage interpretations. <i>Journal of Hydrology</i> , 2013 , 483, 16-25	6	24
84	Hydrogeochemical niches associated with hyporheic exchange beneath an acid mine drainage-contaminated stream. <i>Journal of Hydrology</i> , 2013 , 501, 163-174	6	8
83	The significance of model structure in one-dimensional stream solute transport models with multiple transient storage zones [competing vs. nested arrangements]. <i>Journal of Hydrology</i> , 2013 , 497, 133-144	6	12
82	Identifiability of transient storage model parameters along a mountain stream. <i>Water Resources Research</i> , 2013 , 49, 5290-5306	5.4	54
81	Environmental controls over bacterial communities in polar desert soils. <i>Ecosphere</i> , 2013 , 4, art127	3.1	22
80	Riparian hydraulic gradient and stream-groundwater exchange dynamics in steep headwater valleys. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013 , 118, 953-969	3.8	37
79	Influence of constant rate versus slug injection experiment type on parameter identifiability in a 1-D transient storage model for stream solute transport. <i>Water Resources Research</i> , 2013 , 49, 1184-1188	5.4	16
78	The influence of stream thermal regimes and preferential flow paths on hyporheic exchange in a glacial meltwater stream. <i>Water Resources Research</i> , 2013 , 49, 5552-5569	5.4	18
77	Seasonal controls on snow distribution and aerial ablation at the snow-patch and landscape scales, McMurdo Dry Valleys, Antarctica. <i>Cryosphere</i> , 2013 , 7, 917-931	5.5	8
76	Factors Controlling Soil Microbial Biomass and Bacterial Diversity and Community Composition in a Cold Desert Ecosystem: Role of Geographic Scale. <i>PLoS ONE</i> , 2013 , 8, e66103	3.7	75

75	Investigating controls on the thermal sensitivity of Pennsylvania streams. <i>Hydrological Processes</i> , 2012 , 26, 771-785	3-3	125
74	Hydrologic and geomorphic controls on hyporheic exchange during base flow recession in a headwater mountain stream. <i>Water Resources Research</i> , 2012 , 48,	5-4	51
73	Exploring changes in the spatial distribution of stream baseflow generation during a seasonal recession. <i>Water Resources Research</i> , 2012 , 48,	5-4	68
72	It takes a community to raise a hydrologist: the Modular Curriculum for Hydrologic Advancement (MOCHA). <i>Hydrology and Earth System Sciences</i> , 2012 , 16, 3405-3418	5-5	17
71	Spatial and temporal patterns of snow accumulation and aerial ablation across the McMurdo Dry Valleys, Antarctica. <i>Hydrological Processes</i> , 2012 , 27, n/a-n/a	3-3	5
70	The ecology of pulse events: insights from an extreme climatic event in a polar desert ecosystem. <i>Ecosphere</i> , 2012 , 3, art17	3-1	47
69	Quantifying hyporheic exchange at high spatial resolution using natural temperature variations along a first-order stream. <i>Water Resources Research</i> , 2011 , 47,	5-4	49
68	Separation of river network-scale nitrogen removal among the main channel and two transient storage compartments. <i>Water Resources Research</i> , 2011 , 47,	5-4	64
67	Residence time distributions in surface transient storage zones in streams: Estimation via signal deconvolution. <i>Water Resources Research</i> , 2011 , 47,	5-4	23
66	How can subsurface modifications to hydraulic conductivity be designed as stream restoration structures? Analysis of Vaux's conceptual models to enhance hyporheic exchange. <i>Water Resources Research</i> , 2011 , 47,	5-4	59
65	Rethinking hyporheic flow and transient storage to advance understanding of stream-catchment connections. <i>Water Resources Research</i> , 2011 , 47,	5-4	95
64	Implications of meltwater pulse events for soil biology and biogeochemical cycling in a polar desert. <i>Polar Research</i> , 2011 , 30, 14555	2	15
63	Hydrological Connectivity of the Landscape of the McMurdo Dry Valleys, Antarctica. <i>Geography Compass</i> , 2011 , 5, 666-681	2-4	41
62	Bacterial community structure along moisture gradients in the parafluvial sediments of two ephemeral desert streams. <i>Microbial Ecology</i> , 2011 , 61, 543-56	4-4	81
61	Water tracks and permafrost in Taylor Valley, Antarctica: Extensive and shallow groundwater connectivity in a cold desert ecosystem. <i>Bulletin of the Geological Society of America</i> , 2011 , 123, 2295-2319	3-9	86
60	Surface and hyporheic transient storage dynamics throughout a coastal stream network. <i>Water Resources Research</i> , 2010 , 46,	5-4	42
59	Hillslope hydrologic connectivity controls riparian groundwater turnover: Implications of catchment structure for riparian buffering and stream water sources. <i>Water Resources Research</i> , 2010 , 46,	5-4	145
58	Moving beyond the banks: hyporheic restoration is fundamental to restoring ecological services and functions of streams. <i>Environmental Science & Technology</i> , 2010 , 44, 1521-5	10-3	178

57	Spatial variations in the geochemistry of glacial meltwater streams in the Taylor Valley, Antarctica. <i>Antarctic Science</i> , 2010 , 22, 662-672	1.7	77
56	Defining Hyporheic Zones –Advancing Our Conceptual and Operational Definitions of Where Stream Water and Groundwater Meet. <i>Geography Compass</i> , 2010 , 4, 945-955	2.4	80
55	An analysis of alternative conceptual models relating hyporheic exchange flow to diel fluctuations in discharge during baseflow recession. <i>Hydrological Processes</i> , 2010 , 24, 686-694	3.3	54
54	Imaging hyporheic zone solute transport using electrical resistivity. <i>Hydrological Processes</i> , 2010 , 24, 948-953	3.3	89
53	Characterizing hyporheic transport processes –Interpretation of electrical geophysical data in coupled stream–hyporheic zone systems during solute tracer studies. <i>Advances in Water Resources</i> , 2010 , 33, 1320-1330	4.7	43
52	Spatial variation in soil active-layer geochemistry across hydrologic margins in polar desert ecosystems. <i>Hydrology and Earth System Sciences</i> , 2009 , 13, 2349-2358	5.5	33
51	Estimating 3D variation in active-layer thickness beneath arctic streams using ground-penetrating radar. <i>Journal of Hydrology</i> , 2009 , 373, 479-486	6	41
50	Hydrologic characteristics of lake- and stream-side riparian wetted margins in the McMurdo Dry Valleys, Antarctica. <i>Hydrological Processes</i> , 2009 , 23, 1255-1267	3.3	28
49	Landscape Distribution of Microbial Activity in the McMurdo Dry Valleys: Linked Biotic Processes, Hydrology, and Geochemistry in a Cold Desert Ecosystem. <i>Ecosystems</i> , 2009 , 12, 562-573	3.9	58
48	Thermal characterisation of active layer across a soil moisture gradient in the McMurdo Dry Valleys, Antarctica. <i>Permafrost and Periglacial Processes</i> , 2009 , 20, 27-39	4.2	34
47	A method for estimating surface transient storage parameters for streams with concurrent hyporheic storage. <i>Water Resources Research</i> , 2009 , 45,	5.4	101
46	Hydrologic connectivity between landscapes and streams: Transferring reach- and plot-scale understanding to the catchment scale. <i>Water Resources Research</i> , 2009 , 45,	5.4	367
45	Channel water balance and exchange with subsurface flow along a mountain headwater stream in Montana, United States. <i>Water Resources Research</i> , 2009 , 45,	5.4	140
44	Effects of Hillslope Thermokarst in Northern Alaska. <i>Eos</i> , 2009 , 90, 29-30	1.5	59
43	Multi-offset GPR methods for hyporheic zone investigations. <i>Near Surface Geophysics</i> , 2009 , 7, 247-257	1.6	8
42	Comparison of in-channel mobile–immobile zone exchange during instantaneous and constant rate stream tracer additions: Implications for design and interpretation of non-conservative tracer experiments. <i>Journal of Hydrology</i> , 2008 , 357, 112-124	6	25
41	Influence of morphology and permafrost dynamics on hyporheic exchange in arctic headwater streams under warming climate conditions. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	28
40	Sediment and nutrient delivery from thermokarst features in the foothills of the North Slope, Alaska: Potential impacts on headwater stream ecosystems. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		157

39	Hyporheic exchange and water chemistry of two arctic tundra streams of contrasting geomorphology. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		20
38	Comparison of instantaneous and constant-rate stream tracer experiments through non-parametric analysis of residence time distributions. <i>Water Resources Research</i> , 2008 , 44,	5-4	41
37	Comparison of hyporheic exchange under covered and uncovered channels based on linked surface and groundwater flow simulations. <i>Water Resources Research</i> , 2008 , 44,	5-4	16
36	Electrical characterization of non-Fickian transport in groundwater and hyporheic systems. <i>Water Resources Research</i> , 2008 , 44,	5-4	30
35	Solute Transport Along Stream and River Networks 2008 , 395-417		9
34	High-latitude rivers and streams 2008 , 83-102		8
33	Relating transient storage to channel complexity in streams of varying land use in Jackson Hole, Wyoming. <i>Water Resources Research</i> , 2007 , 43,	5-4	97
32	Transient storage as a function of geomorphology, discharge, and permafrost active layer conditions in Arctic tundra streams. <i>Water Resources Research</i> , 2007 , 43,	5-4	70
31	Flow velocity and the hydrologic behavior of streams during baseflow. <i>Geophysical Research Letters</i> , 2007 , 34,	4-9	52
30	Imaging thermal stratigraphy in freshwater lakes using georadar. <i>Geophysical Research Letters</i> , 2007 , 34,	4-9	2
29	Controls on the Spatial Dimensions of Wetted Hydrologic Margins of Two Antarctic Lakes. <i>Vadose Zone Journal</i> , 2007 , 6, 841-848	2-7	21
28	Taking the pulse of hydrology education. <i>Hydrological Processes</i> , 2007 , 21, 1789-1792	3-3	27
27	A modelling study of hyporheic exchange pattern and the sequence, size, and spacing of stream bedforms in mountain stream networks, Oregon, USA. <i>Hydrological Processes</i> , 2006 , 20, 2443-2457	3-3	131
26	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	1-8	54
25	Changes in the character of stream water dissolved organic carbon during flushing in three small watersheds, Oregon. <i>Journal of Geophysical Research</i> , 2006 , 111,		148
24	Surface-water hydrodynamics and regimes of a small mountain streamlake ecosystem. <i>Journal of Hydrology</i> , 2006 , 329, 500-513	6	24
23	Profiles of temporal thaw depths beneath two arctic stream types using ground-penetrating radar. <i>Permafrost and Periglacial Processes</i> , 2006 , 17, 341-355	4-2	42
22	Determining in-channel (dead zone) transient storage by comparing solute transport in a bedrock channelalluvial channel sequence, Oregon. <i>Water Resources Research</i> , 2005 , 41,	5-4	86

21	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	4.7	41
20	A stream tracer technique employing ionic tracers and specific conductance data applied to the Maimai catchment, New Zealand. <i>Hydrological Processes</i> , 2005 , 19, 2491-2506	3.3	39
19	Measuring thaw depth beneath peat-lined arctic streams using ground-penetrating radar. <i>Hydrological Processes</i> , 2005 , 19, 2689-2699	3.3	49
18	Retracted and replaced: A modelling study of hyporheic exchange pattern and the sequence, size, and spacing of stream bedforms in mountain stream networks, Oregon, USA. <i>Hydrological Processes</i> , 2005 , 19, 2915-2929	3.3	27
17	Patterns in stream longitudinal profiles and implications for hyporheic exchange flow at the H.J. Andrews Experimental Forest, Oregon, USA. <i>Hydrological Processes</i> , 2005 , 19, 2931-2949	3.3	84
16	Modeling the potential effects of climate change on water temperature downstream of a shallow reservoir, lower madison river, MT. <i>Climatic Change</i> , 2005 , 68, 331-353	4.5	51
15	Reach-Scale Cation Exchange Controls on Major Ion Chemistry of an Antarctic Glacial Meltwater Stream. <i>Aquatic Geochemistry</i> , 2004 , 10, 221-238	1.7	18
14	Denitrification and hydrologic transient storage in a glacial meltwater stream, McMurdo Dry Valleys, Antarctica. <i>Limnology and Oceanography</i> , 2004 , 49, 1884-1895	4.8	88
13	Determining long time-scale hyporheic zone flow paths in Antarctic streams. <i>Hydrological Processes</i> , 2003 , 17, 1691-1710	3.3	89
12	Comparing transient storage modeling and residence time distribution (RTD) analysis in geomorphically varied reaches in the Lookout Creek basin, Oregon, USA. <i>Advances in Water Resources</i> , 2003 , 26, 925-937	4.7	123
11	Automated calibration of a stream solute transport model: implications for interpretation of biogeochemical parameters. <i>Journal of the North American Benthological Society</i> , 2003 , 22, 492-510		46
10	Snow-Patch Influence on Soil Biogeochemical Processes and Invertebrate Distribution in the McMurdo Dry Valleys, Antarctica. <i>Arctic, Antarctic, and Alpine Research</i> , 2003 , 35, 91-99	1.8	77
9	Weathering reactions and hyporheic exchange controls on stream water chemistry in a glacial meltwater stream in the McMurdo Dry Valleys. <i>Water Resources Research</i> , 2002 , 38, 15-1-15-17	5.4	120
8	Direct observations of aluminosilicate weathering in the hyporheic zone of an Antarctic Dry Valley stream. <i>Geochimica Et Cosmochimica Acta</i> , 2002 , 66, 1335-1347	5.5	81
7	The legacy of aqueous environments on soils of the McMurdo Dry Valleys: contexts for future exploration of martian soils78-109		3
6	Factors promoting microbial diversity in the McMurdo Dry Valleys, Antarctica221-257		16
5	Biogeochemical and suspended sediment responses to permafrost degradation in stream banks in Taylor Valley, Antarctica		1
4	Spatial variation in soil active-layer geochemistry across hydrologic margins in polar desert ecosystems		6

3	Seasonal controls on snow distribution and aerial ablation at the snow-patch and landscape scales, McMurdo Dry Valleys, Antarctica	1
2	Antarctic McMurdo Dry Valley stream ecosystems as analog to fluvial systems on Mars139-159	2
1	From the Heroic Age to today: What diatoms from Shackleton& Nimrod expedition can tell us about the ecological trajectory of Antarctic ponds. <i>Limnology and Oceanography Letters</i> ,	7.9 0