

Michael Gooseff

List of Publications by Citations

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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	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
145	River corridor science: Hydrologic exchange and ecological consequences from bedforms to basins. <i>Water Resources Research</i> , 2015 , 51, 6893-6922	5.4	207
144	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
143	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
142	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
141	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
140	The polar regions in a 2°C warmer world. <i>Science Advances</i> , 2019 , 5, eaaw9883	14.3	144
139	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
138	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
137	Investigating controls on the thermal sensitivity of Pennsylvania streams. <i>Hydrological Processes</i> , 2012 , 26, 771-785	3.3	125
136	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
135	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
134	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
133	A method for estimating surface transient storage parameters for streams with concurrent hyporheic storage. <i>Water Resources Research</i> , 2009 , 45,	5.4	101
132	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
131	Rethinking hyporheic flow and transient storage to advance understanding of stream-catchment connections. <i>Water Resources Research</i> , 2011 , 47,	5.4	95
130	Imaging hyporheic zone solute transport using electrical resistivity. <i>Hydrological Processes</i> , 2010 , 24, 948-953	3.3	89

129	Determining long time-scale hyporheic zone flow paths in Antarctic streams. <i>Hydrological Processes</i> , 2003 , 17, 1691-1710	3.3	89
128	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
127	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
126	Determining in-channel (dead zone) transient storage by comparing solute transport in a bedrock channel-alluvial channel sequence, Oregon. <i>Water Resources Research</i> , 2005 , 41,	5.4	86
125	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
124	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
123	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
122	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
121	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
120	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
119	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
118	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
117	Exploring changes in the spatial distribution of stream baseflow generation during a seasonal recession. <i>Water Resources Research</i> , 2012 , 48,	5.4	68
116	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
115	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
114	The McMurdo Dry Valleys: A landscape on the threshold of change. <i>Geomorphology</i> , 2014 , 225, 25-35	4.3	61
113	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
112	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

111	Effects of Hillslope Thermokarst in Northern Alaska. <i>Eos</i> , 2009 , 90, 29-30	1.5	59
110	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
109	A field comparison of multiple techniques to quantify groundwater-surface-water interactions. <i>Freshwater Science</i> , 2015 , 34, 139-160	2	57
108	Identifiability of transient storage model parameters along a mountain stream. <i>Water Resources Research</i> , 2013 , 49, 5290-5306	5.4	54
107	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
106	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
105	Flow velocity and the hydrologic behavior of streams during baseflow. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	52
104	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
103	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
102	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
101	Measuring thaw depth beneath peat-lined arctic streams using ground-penetrating radar. <i>Hydrological Processes</i> , 2005 , 19, 2689-2699	3.3	49
100	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
99	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
98	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
97	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
96	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
95	Surface and hyporheic transient storage dynamics throughout a coastal stream network. <i>Water Resources Research</i> , 2010 , 46,	5.4	42
94	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

93	Hydrological Connectivity of the Landscape of the McMurdo Dry Valleys, Antarctica. <i>Geography Compass</i> , 2011 , 5, 666-681	2.4	41
92	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
91	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
90	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
89	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
88	The Impact of a Large-Scale Climate Event on Antarctic Ecosystem Processes. <i>BioScience</i> , 2016 , 66, 848-863	5.7	37
87	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
86	Shallow groundwater systems in a polar desert, McMurdo Dry Valleys, Antarctica. <i>Hydrogeology Journal</i> , 2013 , 21, 171-183	3.1	34
85	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
84	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
83	Responses of Antarctic Marine and Freshwater Ecosystems to Changing Ice Conditions. <i>BioScience</i> , 2016 , 66, 864-879	5.7	33
82	Bacterial community composition of divergent soil habitats in a polar desert. <i>FEMS Microbiology Ecology</i> , 2014 , 89, 490-4	4.3	32
81	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
80	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
79	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
78	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
77	Electrical characterization of non-Fickian transport in groundwater and hyporheic systems. <i>Water Resources Research</i> , 2008 , 44,	5.4	30
76	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

75	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
74	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
73	Taking the pulse of hydrology education. <i>Hydrological Processes</i> , 2007 , 21, 1789-1792	3.3	27
72	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
71	Hydrologic connectivity and implications for ecosystem processes - Lessons from naked watersheds. <i>Geomorphology</i> , 2017 , 277, 63-71	4.3	26
70	How does subsurface characterization affect simulations of hyporheic exchange?. <i>Ground Water</i> , 2013 , 51, 14-28	2.4	25
69	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
68	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
67	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
66	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
65	Nitrate uptake dynamics of surface transient storage in stream channels and fluvial wetlands. <i>Biogeochemistry</i> , 2014 , 120, 239-257	3.8	24
64	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
63	Surface-water hydrodynamics and regimes of a small mountain stream-lake ecosystem. <i>Journal of Hydrology</i> , 2006 , 329, 500-513	6	24
62	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	3.6	23
61	Residence time distributions in surface transient storage zones in streams: Estimation via signal deconvolution. <i>Water Resources Research</i> , 2011 , 47,	5.4	23
60	Environmental controls over bacterial communities in polar desert soils. <i>Ecosphere</i> , 2013 , 4, art127	3.1	22
59	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
58	Hydrologic flow path development varies by aspect during spring snowmelt in complex subalpine terrain. <i>Cryosphere</i> , 2018 , 12, 287-300	5.5	20

57	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
56	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
55	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
54	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
53	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
52	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
51	Factors promoting microbial diversity in the McMurdo Dry Valleys, Antarctica		16
50	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
49	Spiraling Down Hillslopes: Nutrient Uptake from Water Tracks in a Warming Arctic. <i>Ecosystems</i> , 2019 , 22, 1546-1560	3.9	15
48	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
47	Implications of meltwater pulse events for soil biology and biogeochemical cycling in a polar desert. <i>Polar Research</i> , 2011 , 30, 14555	2	15
46	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
45	Groundwater-surface-water interactions: current research directions. <i>Freshwater Science</i> , 2015 , 34, 92-98		14
44	Wetting and Drying Variability of the Shallow Subsurface Beneath a Snowpack in California's Southern Sierra Nevada. <i>Vadose Zone Journal</i> , 2015 , 14, vj2014.12.0182	2.7	14
43	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
42	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
41	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
40	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

39	Hyporheic Restoration in Streams and Rivers. <i>Geophysical Monograph Series</i> , 2013 , 167-187	1.1	12
38	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
37	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
36	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
35	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
34	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
33	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
32	Spatiotemporal dynamics of wetted soils across a polar desert landscape. <i>Antarctic Science</i> , 2015 , 27, 197-209	1.7	9
31	Solute Transport Along Stream and River Networks 2008 , 395-417		9
30	Recovery of Antarctic stream epilithon from simulated scouring events. <i>Antarctic Science</i> , 2015 , 27, 341-354	3.4	8
29	Hydrogeochemical niches associated with hyporheic exchange beneath an acid mine drainage-contaminated stream. <i>Journal of Hydrology</i> , 2013 , 501, 163-174	6	8
28	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
27	Multi-offset GPR methods for hyporheic zone investigations. <i>Near Surface Geophysics</i> , 2009 , 7, 247-257	1.6	8
26	High-latitude rivers and streams 2008 , 83-102		8
25	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
24	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
23	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
22	Spatial variation in soil active-layer geochemistry across hydrologic margins in polar desert ecosystems		6

21	Impacts of permafrost degradation on a stream in Taylor Valley, Antarctica. <i>Geomorphology</i> , 2017 , 285, 205-213	4.3	5
20	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
19	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
18	Aufeis fields as novel groundwater-dependent ecosystems in the arctic cryosphere. <i>Limnology and Oceanography</i> , 2021 , 66, 607-624	4.8	4
17	The legacy of aqueous environments on soils of the McMurdo Dry Valleys: contexts for future exploration of martian soils78-109		3
16	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
15	Chemical Weathering in the McMurdo Dry Valleys, Antarctica. <i>Geophysical Monograph Series</i> , 2021 , 205-216		3
14	Imaging thermal stratigraphy in freshwater lakes using georadar. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	2
13	Antarctic McMurdo Dry Valley stream ecosystems as analog to fluvial systems on Mars139-159		2
12	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
11	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
10	Biogeochemical and suspended sediment responses to permafrost degradation in stream banks in Taylor Valley, Antarctica		1
9	Seasonal controls on snow distribution and aerial ablation at the snow-patch and landscape scales, McMurdo Dry Valleys, Antarctica		1
8	Geomorphic Controls on Hyporheic Exchange Across ScalesWatersheds to Particles 2019 ,		1
7	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
6	Connectivity: insights from the U.S. Long Term Ecological Research Network. <i>Ecosphere</i> , 2021 , 12, e03433	3.1	1
5	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
4	Hydrological Controls on Ecosystem Dynamics in Lake Fryxell, Antarctica. <i>PLoS ONE</i> , 2016 , 11, e0159038	3.7	1

3	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
2	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
1	From the Heroic Age to today: What diatoms from Shackleton's Nimrod expedition can tell us about the ecological trajectory of Antarctic ponds. <i>Limnology and Oceanography Letters</i> ,	7.9	0