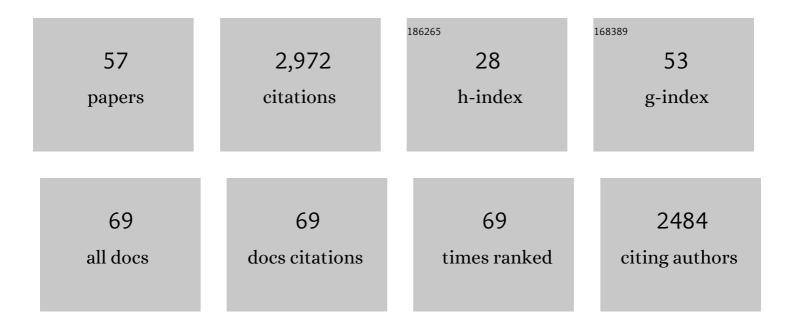
## Barret Kurylyk

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6340626/publications.pdf Version: 2024-02-01



RADDET KILDVIVK

#	Article	IF	CITATIONS
1	The salmonâ€peloton: Hydraulic habitat shifts of adult Atlantic salmon ( <scp><i>Salmo salar</i></scp> ) due to behavioural thermoregulation. River Research and Applications, 2022, 38, 107-118.	1.7	13
2	Highly Sensitive Plasmonic Fiber-Optic Sensors using Group IV Transition Metal Nitrides: a Numerical Investigation. Plasmonics, 2022, 17, 931-940.	3.4	6
3	Sea-level rise and warming mediate coastal groundwater discharge in the Arctic. Environmental Research Letters, 2022, 17, 045027.	5.2	9
4	CrAssphage as an indicator of groundwater-borne pollution in coastal ecosystems. Environmental Research Communications, 2022, 4, 051001.	2.3	6
5	Inferring Aquitard Hydraulic Conductivity Using Transient Temperatureâ€Depth Profiles Impacted by Ground Surface Warming. Water Resources Research, 2022, 58, .	4.2	2
6	Shallow subsurface heat recycling is a sustainable global space heating alternative. Nature Communications, 2022, 13, .	12.8	9
7	Small atoll fresh groundwater lenses respond to a combination of natural climatic cycles and human modified geology. Science of the Total Environment, 2021, 756, 143838.	8.0	11
8	Understanding multifunctional Bay of Fundy dykelands and tidal wetlands using ecosystem services—a baseline. Facets, 2021, 6, 1446-1473.	2.4	12
9	Using Heat to Trace Vertical Water Fluxes in Sediment Experiencing Concurrent Tidal Pumping and Groundwater Discharge. Water Resources Research, 2021, 57, e2020WR027904.	4.2	20
10	Invited perspective: What lies beneath a changing Arctic?. Cryosphere, 2021, 15, 479-484.	3.9	32
11	Pore water exchangeâ€driven inorganic carbon export from intertidal salt marshes. Limnology and Oceanography, 2021, 66, 1774-1792.	3.1	32
12	An ecohydrological typology for thermal refuges in streams and rivers. Ecohydrology, 2021, 14, e2295.	2.4	28
13	Droneâ€based characterization of intertidal spring coldâ€water plume dynamics. Hydrological Processes, 2021, 35, e14258.	2.6	8
14	Modeling Reactive Solute Transport in Permafrostâ€Affected Groundwater Systems. Water Resources Research, 2021, 57, e2020WR028771.	4.2	19
15	Saltwater Intrusion Intensifies Coastal Permafrost Thaw. Geophysical Research Letters, 2021, 48, e2021GL094776.	4.0	14
16	Permafrost Hydrogeology. , 2021, , 493-523.		3
17	Laboratory-scale assessment of a capillary barrier using fibre optic distributed temperature sensing (FO-DTS). Canadian Geotechnical Journal, 2020, 57, 115-126.	2.8	11
18	Quantitative guidance for efficient vertical flow measurements at the sediment–water interface using temperature–depth profiles. Hydrological Processes, 2020, 34, 649-661.	2.6	13

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19	Guidelines for coldâ€regions groundwater numerical modeling. Wiley Interdisciplinary Reviews: Water, 2020, 7, e1467.	6.5	32
20	Characterization of contrasting flow and thermal regimes in two adjacent subarctic alpine headwaters in Northwest Canada. Hydrological Processes, 2020, 34, 3252-3270.	2.6	4
21	Repeated Subsurface Thermal Profiling to Reveal Temporal Variability in Deep Groundwater Flow Conditions. Water Resources Research, 2020, 56, e2019WR026913.	4.2	10
22	Heat: An Overlooked Tool in the Practicing Hydrogeologist's Toolbox. Ground Water, 2019, 57, 517-524.	1.3	16
23	Engineering challenges of warming. Nature Climate Change, 2019, 9, 807-808.	18.8	1
24	Theory, tools, and multidisciplinary applications for tracing groundwater fluxes from temperature profiles. Wiley Interdisciplinary Reviews: Water, 2019, 6, e1329.	6.5	50
25	Groundwater flow and heat transport for systems undergoing freeze-thaw: Intercomparison of numerical simulators for 2D test cases. Advances in Water Resources, 2018, 114, 196-218.	3.8	91
26	Inferring watershed hydraulics and cold-water habitat persistence using multi-year air and stream temperature signals. Science of the Total Environment, 2018, 636, 1117-1127.	8.0	51
27	A theoretical extension of the soil freezing curve paradigm. Advances in Water Resources, 2018, 111, 319-328.	3.8	26
28	Snowmelt Infiltration and Macropore Flow in Frozen Soils: Overview, Knowledge Gaps, and a Conceptual Framework. Vadose Zone Journal, 2018, 17, 1-15.	2.2	63
29	Rethinking the Use of Seabed Sediment Temperature Profiles to Trace Submarine Groundwater Flow. Water Resources Research, 2018, 54, 4595-4614.	4.2	14
30	Changing groundwater discharge dynamics in permafrost regions. Environmental Research Letters, 2018, 13, 084017.	5.2	101
31	Distinguishing streamflow trends caused by changes in climate, forest cover, and permafrost in a large watershed in northeastern China. Hydrological Processes, 2017, 31, 1938-1951.	2.6	33
32	Heat as a groundwater tracer in shallow and deep heterogeneous media: Analytical solution, spreadsheet tool, and field applications. Hydrological Processes, 2017, 31, 2648-2661.	2.6	38
33	Interpreting Repeated Temperatureâ€Depth Profiles for Groundwater Flow. Water Resources Research, 2017, 53, 8639-8647.	4.2	21
34	Tracking the Subsurface Signal of Decadal Climate Warming to Quantify Vertical Groundwater Flow Rates. Geophysical Research Letters, 2017, 44, 12,244.	4.0	22
35	Groundwater flow estimation using temperature-depth profiles in a complex environment and a changing climate. Science of the Total Environment, 2017, 574, 272-281.	8.0	29
36	Monitoring Changes in Near-Well Hydraulic Conditions as a Means to Assess Aquifer Clogging. Journal of Hydrologic Engineering - ASCE, 2017, 22, 04016057.	1.9	1

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37	Inferring hydraulic properties of alpine aquifers from the propagation of diurnal snowmelt signals. Water Resources Research, 2017, 53, 4271-4285.	4.2	12
38	Influence of a rock glacier spring on the stream energy budget and coldâ€water refuge in an alpine stream. Hydrological Processes, 2017, 31, 4719-4733.	2.6	28
39	Increasing Winter Baseflow in Response to Permafrost Thaw and Precipitation Regime Shifts in Northeastern China. Water (Switzerland), 2017, 9, 25.	2.7	38
40	Improved Stefan Equation Correction Factors to Accommodate Sensible Heat Storage during Soil Freezing or Thawing. Permafrost and Periglacial Processes, 2016, 27, 189-203.	3.4	38
41	Scientific briefing: quantifying streambed heat advection associated with groundwater-surface water interactions. Hydrological Processes, 2016, 30, 987-992.	2.6	37
42	Analytical solution and computer program ( <i>FAST</i> ) to estimate fluid fluxes from subsurface temperature profiles. Water Resources Research, 2016, 52, 725-733.	4.2	29
43	Influence of vertical and lateral heat transfer on permafrost thaw, peatland landscape transition, and groundwater flow. Water Resources Research, 2016, 52, 1286-1305.	4.2	102
44	Hydrologic Impacts of Thawing Permafrost—A Review. Vadose Zone Journal, 2016, 15, 1-20.	2.2	544
45	Benchmarking Numerical Freeze/Thaw Models. Energy Procedia, 2015, 76, 301-310.	1.8	31
46	Discussion of †A Simple Thawâ€Freeze Algorithm for a Multiâ€Layered Soil using the Stefan Equation' by Xie and Gough (2013). Permafrost and Periglacial Processes, 2015, 26, 200-206.	3.4	20
47	Shallow groundwater thermal sensitivity to climate change and land cover disturbances: derivation of analytical expressions and implications for stream temperature modeling. Hydrology and Earth System Sciences, 2015, 19, 2469-2489.	4.9	81
48	Preserving, augmenting, and creating coldâ€water thermal refugia in rivers: concepts derived from research on the Miramichi River, New Brunswick (Canada). Ecohydrology, 2015, 8, 1095-1108.	2.4	129
49	Observed groundwater temperature response to recent climate change. Hydrology and Earth System Sciences, 2014, 18, 4453-4466.	4.9	109
50	Climate change impacts on the temperature and magnitude of groundwater discharge from shallow, unconfined aquifers. Water Resources Research, 2014, 50, 3253-3274.	4.2	127
51	A new analytical solution for assessing climate change impacts on subsurface temperature. Hydrological Processes, 2014, 28, 3161-3172.	2.6	39
52	Streambed temperature dynamics and corresponding heat fluxes in small streams experiencing seasonal ice cover. Journal of Hydrology, 2014, 519, 1441-1452.	5.4	52
53	Climate change impacts on groundwater and soil temperatures in cold and temperate regions: Implications, mathematical theory, and emerging simulation tools. Earth-Science Reviews, 2014, 138, 313-334.	9.1	207
54	Analytical solutions for benchmarking cold regions subsurface water flow and energy transport models: One-dimensional soil thaw with conduction and advection. Advances in Water Resources, 2014, 70, 172-184.	3.8	64

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55	The uncertainty associated with estimating future groundwater recharge: A summary of recent research and an example from a small unconfined aquifer in a northern humid-continental climate. Journal of Hydrology, 2013, 492, 244-253.	5.4	77
56	The mathematical representation of freezing and thawing processes in variably-saturated, non-deformable soils. Advances in Water Resources, 2013, 60, 160-177.	3.8	253
57	Potential surface temperature and shallow groundwater temperature response to climate change: an example from a small forested catchment in east-central New Brunswick (Canada). Hydrology and Earth System Sciences, 2013, 17, 2701-2716.	4.9	79