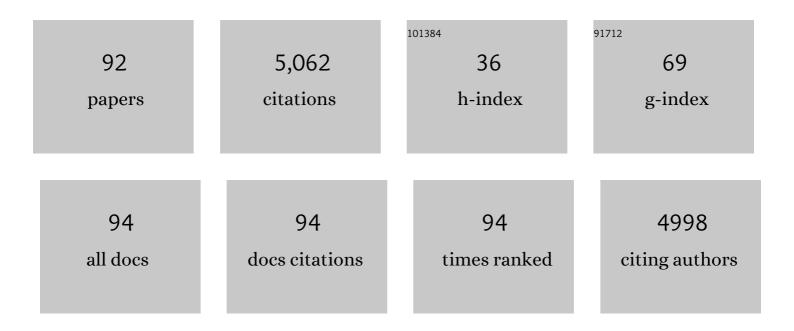
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/455516/publications.pdf Version: 2024-02-01



IOHN CIRSON

#	Article	IF	CITATIONS
1	Terrestrial water fluxes dominated by transpiration. Nature, 2013, 496, 347-350.	13.7	966
2	Regional water balance trends and evaporation-transpiration partitioning from a stable isotope survey of lakes in northern Canada. Global Biogeochemical Cycles, 2002, 16, 10-1-10-14.	1.9	254
3	Climate Change Effects on Hydroecology of Arctic Freshwater Ecosystems. Ambio, 2006, 35, 347-358.	2.8	232
4	Estimating Evaporation Using Stable Isotopes: Quantitative Results and Sensitivity Analysis for Two Catchments in Northern Canada. Hydrology Research, 1993, 24, 79-94.	1.1	193
5	Global prediction of <i>δ</i> <sub>A</sub> and <i>δ</i> <sup>2</sup> Hâ€ <i>δ</i> <sup>18</sup> O evaporation slopes for lakes and soil water accounting for seasonality. Global Biogeochemical Cycles, 2008, 22, .	1.9	183
6	Quantitative comparison of lake throughflow, residency, and catchment runoff using stable isotopes: modelling and results from a regional survey of Boreal lakes. Journal of Hydrology, 2002, 262, 128-144.	2.3	175
7	Stable isotope mass balance of lakes: a contemporary perspective. Quaternary Science Reviews, 2016, 131, 316-328.	1.4	167
8	Estimation of evaporative loss based on the stable isotope composition of water using Hydrocalculator. Journal of Hydrology, 2015, 523, 781-789.	2.3	157
9	Short-term evaporation and water budget comparisons in shallow Arctic lakes using non-steady isotope mass balance. Journal of Hydrology, 2002, 264, 242-261.	2.3	124
10	Hydrologic functions of wetlands in a discontinuous permafrost basin indicated by isotopic and chemical signatures. Journal of Hydrology, 2004, 296, 81-97.	2.3	107
11	Stable isotope estimates of evaporation : inflow and water residence time for lakes across the United States as a tool for national lake water quality assessments. Limnology and Oceanography, 2014, 59, 2150-2165.	1.6	107
12	Water balance along a chain of tundra lakes: A 20-year isotopic perspective. Journal of Hydrology, 2014, 519, 2148-2164.	2.3	93
13	Climate Change, Flow Regulation and Land-Use Effects on the Hydrology of the Peace-Athabasca-Slave System; Findings from the Northern Rivers Ecosystem Initiative. Environmental Monitoring and Assessment, 2006, 113, 167-197.	1.3	91
14	The contribution of groundwater discharge to the overall water budget of two typical Boreal lakes in Alberta/Canada estimated from a radon mass balance. Hydrology and Earth System Sciences, 2010, 14, 79-89.	1.9	87
15	Stable isotope fingerprint of open-water evaporation losses and effective drainage area fluctuations in a subarctic shield watershed. Journal of Hydrology, 2010, 381, 142-150.	2.3	86
16	Landscape variables influencing nutrients and phytoplankton communities in Boreal Plain lakes of northern Alberta: a comparison of wetland- and upland-dominated catchments. Canadian Journal of Fisheries and Aquatic Sciences, 2001, 58, 1286-1299.	0.7	85
17	Development of a Panâ€Arctic Database for River Chemistry. Eos, 2008, 89, 217-218.	0.1	72
18	DEVELOPMENT AND VALIDATION OF AN ISOTOPIC METHOD FOR ESTIMATING LAKE EVAPORATION. Hydrological Processes, 1996, 10, 1369-1382.	1.1	68

#	Article	IF	CITATIONS
19	ISOTOPES IN WATER. , 2006, , 1-66.		68
20	Stable isotope mass balance of the Laurentian Great Lakes. Journal of Great Lakes Research, 2014, 40, 336-346.	0.8	65
21	Isotope studies in large river basins: A new global research focus. Eos, 2002, 83, 613.	0.1	64
22	Pan-derived isotopic composition of atmospheric water vapour and its variability in northern Canada. Journal of Hydrology, 1999, 217, 55-74.	2.3	59
23	Application of isotope tracers in continental scale hydrological modeling. Journal of Hydrology, 2006, 330, 444-456.	2.3	58
24	Runoff to boreal lakes linked to land cover, watershed morphology and permafrost thaw: a 9â€year isotope mass balance assessment. Hydrological Processes, 2015, 29, 3848-3861.	1.1	57
25	Evidence of discharging saline formation water to the Athabasca River in the oil sands mining region, northern Alberta. Canadian Journal of Earth Sciences, 2013, 50, 1244-1257.	0.6	56
26	lsotopic time-series partitioning of streamflow components in wetland-dominated catchments, lower Liard River basin, Northwest Territories, Canada. Hydrological Processes, 2005, 19, 3357-3381.	1.1	54
27	Synoptic and time-series stable isotope surveys of the Mackenzie River from Great Slave Lake to the Arctic Ocean, 2003 to 2006. Journal of Hydrology, 2010, 383, 223-232.	2.3	52
28	Water-yield estimates for critical loadings assessment: comparisons of gauging methods versus an isotopic approach. Canadian Journal of Fisheries and Aquatic Sciences, 2008, 65, 83-99.	0.7	50
29	Runoff generation in a hypermaritime bog-forest upland. Hydrological Processes, 2000, 14, 2711-2730.	1.1	49
30	Reconstruction of paleohydrology and paleohumidity from oxygen isotope records in the Bolivian Andes. Palaeogeography, Palaeoclimatology, Palaeoecology, 2001, 176, 177-192.	1.0	49
31	Determination of groundwater discharge rates and water residence time of groundwaterâ€fed lakes by stable isotopes of water ( <sup>18</sup> O, <sup>2</sup> H) and radon ( <sup>222</sup> Rn) mass balances. Hydrological Processes, 2018, 32, 805-816.	1.1	49
32	Quantifying saline groundwater seepage to surface waters in the Athabasca oil sands region. Applied Geochemistry, 2012, 27, 2068-2076.	1.4	45
33	Regional trends in evaporation loss and water yield based on stable isotope mass balance of lakes: The Ontario Precambrian Shield surveys. Journal of Hydrology, 2017, 544, 500-510.	2.3	45
34	Using stable isotopes paired with tritium analysis to assess thermokarst lake water balances in the Source Area of the Yellow River, northeastern Qinghai-Tibet Plateau, China. Science of the Total Environment, 2019, 689, 1276-1292.	3.9	43
35	Forest-tundra water balance signals traced by isotopic enrichment in lakes. Journal of Hydrology, 2001, 251, 1-13.	2.3	42
36	Characterizing the PAHs in surface waters and snow in the Athabasca region: Implications for identifying hydrological pathways of atmospheric deposition. Science of the Total Environment, 2017, 603-604, 570-583.	3.9	41

#	Article	IF	CITATIONS
37	Recently surveyed lakes in northern Manitoba and Saskatchewan, Canada: characteristics and critical loads of acidity. Journal of Limnology, 2010, 69, 45.	0.3	39
38	Stable isotope mass balance of fifty lakes in central Alberta: Assessing the role of water balance parameters in determining trophic status and lake level. Journal of Hydrology: Regional Studies, 2016, 6, 13-25.	1.0	39
39	Chemical characteristics and acid sensitivity of boreal headwater lakes in northwest Saskatchewan. Journal of Limnology, 2010, 69, 33.	0.3	37
40	lsotope-based partitioning of streamflow in the oil sands region, northern Alberta: Towards a monitoring strategy for assessing flow sources and water quality controls. Journal of Hydrology: Regional Studies, 2016, 5, 131-148.	1.0	37
41	Use of water isotope tracers in high latitude hydrology and paleohydrology. , 2004, , 187-207.		36
42	Stable isotopes in river ice: identifying primary over-winter streamflow signals and their hydrological significance. Hydrological Processes, 2002, 16, 873-890.	1.1	31
43	Partitioning impacts of climate and regulation on water level variability in Great Slave Lake. Journal of Hydrology, 2006, 329, 196-206.	2.3	30
44	lsotope Hydrology Research in Canada, 2003-2007. Canadian Water Resources Journal, 2009, 34, 163-176.	0.5	29
45	Interactions between groundwater and seasonally iceâ€covered lakes: Using water stable isotopes and radonâ€222 multilayer mass balance models. Hydrological Processes, 2017, 31, 2566-2581.	1.1	27
46	Site-specific estimates of water yield applied in regional acid sensitivity surveys across western Canada. Journal of Limnology, 2010, 69, 67.	0.3	26
47	Inter-annual variations in water yield to lakes in northeastern Alberta: implications for estimating critical loads of acidity. Journal of Limnology, 2010, 69, 126.	0.3	25
48	Using regional datasets of isotope geochemistry to resolve complex groundwater flow and formation connectivity in northeastern Alberta, Canada. Applied Geochemistry, 2019, 101, 140-159.	1.4	25
49	Hillslope-swamp interactions and flow pathways in a hypermaritime rainforest, British Columbia. Hydrological Processes, 2003, 17, 3005-3022.	1.1	24
50	The stable isotopes of site wide waters at an oil sands mine in northern Alberta, Canada. Journal of Hydrology, 2016, 541, 1155-1164.	2.3	24
51	Linkages between spatioâ€ŧemporal patterns of environmental factors and distribution of plant assemblages across a boreal peatland complex. Boreas, 2016, 45, 207-219.	1.2	21
52	Plant functional traits as indicator of the ecological condition of wetlands in the Grassland and Parkland of Alberta, Canada. Ecological Indicators, 2019, 98, 483-491.	2.6	21
53	lsotopic characteristics of ice cover in a large northern river basin. Hydrological Processes, 1999, 13, 2537-2548.	1.1	20
54	Origin and hydrogeological setting of saline groundwater discharges to the Athabasca River: Geochemical and isotopic characterization of the hyporheic zone. Applied Geochemistry, 2018, 98, 172-190.	1.4	20

#	Article	IF	CITATIONS
55	Historical Changes in Arctic Freshwater Ecosystems. Ambio, 2006, 35, 339-346.	2.8	19
56	A New Conceptual Model for Predicting Isotopic Enrichment of Lakes in Seasonal Climates. PAGES News, 2002, 10, 10-11.	0.3	19
57	Geochemical and isotopic mass balances of kettle lakes in southern Quebec (Canada) as tools to document variations in groundwater quantity and quality. Environmental Earth Sciences, 2017, 76, 1.	1.3	18
58	Evaporative isotope enrichment as a constraint on reach water balance along a dryland river. Isotopes in Environmental and Health Studies, 2008, 44, 83-98.	0.5	17
59	Characterization of organic composition in snow and surface waters in the Athabasca Oil Sands Region, using ultrahigh resolution Fourier transform mass spectrometry. Science of the Total Environment, 2015, 518-519, 148-158.	3.9	17
60	Using tritium and 222Rn to estimate groundwater discharge and thawing permafrost contributing to surface water in permafrost regions on Qinghai-Tibet Plateau. Journal of Radioanalytical and Nuclear Chemistry, 2019, 322, 561-578.	0.7	16
61	Mapping water yield distribution across the South Athabasca Oil Sands (SAOS) area: Baseline surveys applying isotope mass balance of lakes. Journal of Hydrology: Regional Studies, 2019, 21, 1-13.	1.0	16
62	Higher tritium concentrations measured in permafrost thaw lakes in northern Alberta. Hydrological Processes, 2016, 30, 245-249.	1.1	15
63	18O and 2H in streamflow across Canada. Journal of Hydrology: Regional Studies, 2020, 32, 100754.	1.0	15
64	lsotopic constraints on water balance of tundra lakes and watersheds affected by permafrost degradation, Mackenzie Delta region, Northwest Territories, Canada. Science of the Total Environment, 2020, 731, 139176.	3.9	15
65	When to conduct an isotopic survey for lake water balance evaluation in highly seasonal climates. Hydrological Processes, 2018, 32, 379-387.	1.1	14
66	lsotopic response of runâ€off to forest disturbance in small mountain catchments. Hydrological Processes, 2018, 32, 3650-3661.	1.1	14
67	lsotopic tracing of hydrologic drivers including permafrost thaw status for lakes across Northeastern Alberta, Canada: A 16-year, 50-lake assessment. Journal of Hydrology: Regional Studies, 2019, 26, 100643.	1.0	14
68	The controls on boreal peatland surface water chemistry in Northern Alberta, Canada. Hydrological Processes, 2010, 24, 2143-2155.	1.1	12
69	Isotopic and geochemical surveys of lakes in coastal B.C.: Insights into regional water balance and water quality controls. Journal of Hydrology: Regional Studies, 2018, 17, 47-63.	1.0	12
70	Quantifying floodwater impacts on a lake water budget via volume-dependent transient stable isotope mass balance. Hydrology and Earth System Sciences, 2021, 25, 3731-3757.	1.9	12
71	Suitability of selected freeâ€gas and dissolvedâ€gas sampling containers for carbon isotopic analysis. Rapid Communications in Mass Spectrometry, 2015, 29, 1215-1226.	0.7	11
72	lsotopic constraints on water balance and evapotranspiration partitioning in gauged watersheds across Canada. Journal of Hydrology: Regional Studies, 2021, 37, 100878.	1.0	11

#	Article	IF	CITATIONS
73	Comment on "Profiling Oil Sands Mixtures from Industrial Developments and Natural Groundwaters for Source Identification― Environmental Science & Technology, 2014, 48, 11013-11014.	4.6	10
74	Dataset of 18O and 2H in streamflow across Canada: A national resource for tracing water sources, water balance and predictive modelling. Data in Brief, 2021, 34, 106723.	0.5	9
75	Utility of a multi-tracer approach as a component of adaptive monitoring for municipal wastewater impacts. Water Quality Research Journal of Canada, 2020, 55, 327-341.	1.2	8
76	Jasechko et al. reply. Nature, 2014, 506, E2-E3.	13.7	7
77	Impacts of changes in groundwater recharge on the isotopic composition and geochemistry of seasonally ice-covered lakes: insights for sustainable management. Hydrology and Earth System Sciences, 2017, 21, 5875-5889.	1.9	7
78	Stable Isotopes in Large Scale Hydrological Applications. , 2010, , 389-405.		7
79	Profiling of dissolved organic compounds in the oil sands region using complimentary liquid–liquid extraction and ultrahigh resolution Fourier transform mass spectrometry. Environmental Earth Sciences, 2017, 76, 1.	1.3	6
80	Comparison of atmospheric water vapour l´18O and l´2H estimated using evaporation pan, rainfall equilibrium and continuous measurements. Journal of Hydrology, 2019, 576, 551-560.	2.3	5
81	Molecular profiling of naphthenic acids in technical mixtures and oil sands processâ€affected water using polar reversedâ€phase liquid chromatography–mass spectrometry. Electrophoresis, 2016, 37, 3089-3100.	1.3	4
82	Hydrogeochemistry Studies in the Oil Sands Region to Investigate the Role of Terrain Connectivity in Nitrogen Critical Loads. Water (Switzerland), 2021, 13, 2204.	1.2	4
83	Carbon dissolution effects on pH changes of RAMP lakes in northeastern Alberta, Canada. Journal of Hydrology: Regional Studies, 2022, 40, 101045.	1.0	4
84	Variability in flow and tracer-based performance metric sensitivities reveal regional differences in dominant hydrological processes across the Athabasca River basin. Journal of Hydrology: Regional Studies, 2022, 41, 101088.	1.0	4
85	Watershed, climate, and stable isotope data (oxygen-18 and deuterium) for 50 boreal lakes in the oil sands region, northeastern Alberta, Canada, 2002–2017. Data in Brief, 2020, 29, 105308.	0.5	3
86	Estimating Stable Measured Values and Detecting Anomalies in Groundwater Geochemistry Time Series Data Across the Athabasca Oil Sands Area, Canada. Natural Resources Research, 2021, 30, 1755-1779.	2.2	3
87	Isotope-based water balance assessment of open water wetlands across Alberta: Regional trends with emphasis on the oil sands region. Journal of Hydrology: Regional Studies, 2022, 40, 101036.	1.0	3
88	Moss cellulose 18O applied to reconstruct past changes in water balance of a boreal wetland complex, northeastern Alberta. Catena, 2022, 213, 106116.	2.2	3
89	Using stable isotopes to track hydrological processes at an oil sands mine, Alberta, Canada. Journal of Hydrology: Regional Studies, 2022, 40, 101032.	1.0	2
90	Isobalance. Special issue. Hydrological Processes, 2000, 14, iii-iii.	1.1	1

#	Article	IF	CITATIONS
91	Stable isotope data (oxygen-18 and deuterium) from surveys of lakes, wetlands, rivers, and input waters across the South Athabasca Oil Sands region, Alberta, 2007–2009. Data in Brief, 2019, 22, 781-786.	0.5	1
92	Groundwater monitoring near oil sands development: Insights from regional water quality datasets in the Alberta Oil Sands Region (AOSR). Journal of Hydrology: Regional Studies, 2022, 41, 101079.	1.0	0