

Leonard I Wassenaar

List of Publications by Year in descending order

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Version: 2024-02-01

234
papers

12,982
citations

26630

56
h-index

31849

101
g-index

245
all docs

245
docs citations

245
times ranked

8390
citing authors

#	ARTICLE	IF	CITATIONS
1	Global application of stable hydrogen and oxygen isotopes to wildlife forensics. <i>Oecologia</i> , 2005, 143, 337-348.	2.0	862
2	Comparative equilibration and online technique for determination of non-exchangeable hydrogen of keratins for use in animal migration studies. <i>Isotopes in Environmental and Health Studies</i> , 2003, 39, 211-217.	1.0	566
3	Linking breeding and wintering grounds of neotropical migrant songbirds using stable hydrogen isotopic analysis of feathers. <i>Oecologia</i> , 1997, 109, 142-148.	2.0	492
4	Evaluation of the origin and fate of nitrate in the Abbotsford Aquifer using the isotopes of ^{15}N and ^{18}O in NO_3^- . <i>Applied Geochemistry</i> , 1995, 10, 391-405.	3.0	392
5	High-Precision Laser Spectroscopy D/H and $^{18}\text{O}/^{16}\text{O}$ Measurements of Microliter Natural Water Samples. <i>Analytical Chemistry</i> , 2008, 80, 287-293.	6.5	364
6	Natal origins of migratory monarch butterflies at wintering colonies in Mexico: New isotopic evidence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 15436-15439.	7.1	287
7	Influence of drinking water and diet on the stable-hydrogen isotope ratios of animal tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 8003-8006.	7.1	236
8	Effects of lipid extraction on stable carbon and nitrogen isotope analyses of fish tissues: potential consequences for food web studies. <i>Ecology of Freshwater Fish</i> , 2004, 13, 155-160.	1.4	236
9	Stable isotopes (^2D and ^{13}C) are geographic indicators of natal origins of monarch butterflies in eastern North America. <i>Oecologia</i> , 1999, 120, 397-404.	2.0	204
10	Global isoscapes for ^2H and ^{18}O and $^2\text{H}/^{18}\text{O}$ in precipitation: improved prediction using regionalized climatic regression models. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 4713-4728.	4.9	202
11	Using stable hydrogen and oxygen isotope measurements of feathers to infer geographical origins of migrating European birds. <i>Oecologia</i> , 2004, 141, 477-488.	2.0	190
12	High Resolution Pore Water ^2H and ^{18}O Measurements by $\text{H}_2\text{O}(\text{liquid}) \rightleftharpoons \text{H}_2\text{O}(\text{vapor})$ Equilibration Laser Spectroscopy. <i>Environmental Science & Technology</i> , 2008, 42, 9262-9267.	10.0	185
13	Improved Method for Determining the Stable-Hydrogen Isotopic Composition (^2D) of Complex Organic Materials of Environmental Interest. <i>Environmental Science & Technology</i> , 2000, 34, 2354-2360.	10.0	183
14	Individual specialization and trophic adaptability of northern pike (<i>Esox lucius</i>): an isotope and dietary analysis. <i>Oecologia</i> , 1999, 120, 386-396.	2.0	175
15	A groundwater isoscape (^2D , ^{18}O) for Mexico. <i>Journal of Geochemical Exploration</i> , 2009, 102, 123-136.	3.2	154
16	Stable isotopes as indicators of altitudinal distributions and movements in an Ecuadorean hummingbird community. <i>Oecologia</i> , 2003, 136, 302-308.	2.0	149
17	Tracking multi-generational colonization of the breeding grounds by monarch butterflies in eastern North America. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20131087.	2.6	146
18	Linking Hydrogen (^2H) Isotopes in Feathers and Precipitation: Sources of Variance and Consequences for Assignment to Isoscapes. <i>PLoS ONE</i> , 2012, 7, e35137.	2.5	143

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19	Isotope hydrology of precipitation, surface and ground waters in the Okanagan Valley, British Columbia, Canada. <i>Journal of Hydrology</i> , 2011, 411, 37-48.	5.4	137
20	Effects of selected pharmaceuticals on riverine biofilm communities. <i>Canadian Journal of Microbiology</i> , 2005, 51, 655-669.	1.7	127
21	STABLE-CARBON AND HYDROGEN ISOTOPE RATIOS REVEAL BREEDING ORIGINS OF RED-WINGED BLACKBIRDS. , 2000, 10, 911-916.		123
22	Implications of the distribution of $\delta^2\text{H}$ in pore waters for groundwater flow and the timing of geologic events in a thick aquitard system. <i>Water Resources Research</i> , 1999, 35, 1751-1760.	4.2	115
23	A Method for Investigating Population Declines of Migratory Birds Using Stable Isotopes: Origins of Harvested Lesser Scaup in North America. <i>PLoS ONE</i> , 2009, 4, e7915.	2.5	109
24	Chloride and chlorine isotopes (^{36}Cl and ^{37}Cl) as tracers of solute migration in a thick, clay-rich aquitard system. <i>Water Resources Research</i> , 2000, 36, 285-296.	4.2	108
25	Dissolved organic carbon and methane in a regional confined aquifer, southern Ontario, Canada: Carbon isotope evidence for associated subsurface sources. <i>Applied Geochemistry</i> , 1993, 8, 483-493.	3.0	104
26	A Stable-Isotope Approach to Delineate Geographical Catchment Areas of Avian Migration Monitoring Stations in North America. <i>Environmental Science & Technology</i> , 2001, 35, 1845-1850.	10.0	104
27	Estimating ^{14}C Groundwater Ages in a Methanogenic Aquifer. <i>Water Resources Research</i> , 1995, 31, 2307-2317.	4.2	103
28	Stable Nitrogen Isotopes in Waterfowl Feathers Reflect Agricultural Land Use in Western Canada. <i>Environmental Science & Technology</i> , 2001, 35, 3482-3487.	10.0	101
29	Stable-hydrogen isotope heterogeneity in keratinous materials: mass spectrometry and migratory wildlife tissue subsampling strategies. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 2505-2510.	1.5	100
30	Regional climate on the breeding grounds predicts variation in the natal origin of monarch butterflies overwintering in Mexico over 38 years. <i>Global Change Biology</i> , 2017, 23, 2565-2576.	9.5	98
31	The Global Network of Isotopes in Rivers (GNIR): integration of water isotopes in watershed observation and riverine research. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 3419-3431.	4.9	94
32	Decadal Geochemical and Isotopic Trends for Nitrate in a Transboundary Aquifer and Implications for Agricultural Beneficial Management Practices. <i>Environmental Science & Technology</i> , 2006, 40, 4626-4632.	10.0	92
33	Re-evaluation of the hydrogen stable isotopic composition of keratin calibration standards for wildlife and forensic science applications. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 1193-1203.	1.5	90
34	Stable hydrogen and oxygen isotopes in aquatic food webs are tracers of diet and provenance. <i>Functional Ecology</i> , 2013, 27, 535-543.	3.6	89
35	Spatial and temporal variability of prairie lake hydrology as revealed using stable isotopes of hydrogen and oxygen. <i>Limnology and Oceanography</i> , 2009, 54, 101-118.	3.1	86
36	Stable isotope ecology: an introduction. <i>Oecologia</i> , 1999, 120, 312-313.	2.0	84

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37	A multi-isotope (^{13}C , ^{15}N , ^2H) feather isoscape to assign Afrotropical migrant birds to origins. <i>Ecosphere</i> , 2012, 3, 1-20.	2.2	83
38	Dynamics of dissolved oxygen isotopic ratios: a transient model to quantify primary production, community respiration, and air-water exchange in aquatic ecosystems. <i>Oecologia</i> , 2007, 153, 385-398.	2.0	80
39	Do Healthy Monarchs Migrate Farther? Tracking Natal Origins of Parasitized vs. Uninfected Monarch Butterflies Overwintering in Mexico. <i>PLoS ONE</i> , 2015, 10, e0141371.	2.5	80
40	Controls on the distribution of major ions in pore waters of a thick surficial aquitard. <i>Water Resources Research</i> , 2000, 36, 503-513.	4.2	78
41	Technical Note: Evaluation of between-sample memory effects in the analysis of ^2H and ^{18}O of water samples measured by laser spectrometers. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 3925-3933.	4.9	78
42	Bacteriogenic Ethane in Near-Surface Aquifers: Implications for Leaking Hydrocarbon Well Bores. <i>Environmental Science & Technology</i> , 2000, 34, 4727-4732.	10.0	76
43	An On-Line Technique for the Determination of the ^{18}O and ^{17}O of Gaseous and Dissolved Oxygen. <i>Analytical Chemistry</i> , 1999, 71, 4965-4968.	6.5	75
44	The Radial Diffusion Method: 1. Using intact cores to determine isotopic composition, chemistry, and effective porosities for groundwater in aquitards. <i>Water Resources Research</i> , 1996, 32, 1815-1822.	4.2	71
45	Using Isotopic Variance to Detect Long-Distance Dispersal and Philopatry in Birds: An Example with Ovenbirds and American Redstarts. <i>Condor</i> , 2004, 106, 732-743.	1.6	71
46	Geographic variation in the isotopic (^2H , ^{13}C , ^{15}N , ^{34}S) composition of feathers and claws from lesser scaup and northern pintail: implications for studies of migratory connectivity. <i>Canadian Journal of Zoology</i> , 2006, 84, 1395-1401.	1.0	71
47	Stable isotopes (^2H) delineate the origins and migratory connectivity of harvested animals: the case of European woodpigeons. <i>Journal of Applied Ecology</i> , 2009, 46, 572-581.	4.0	70
48	Approaches for Achieving Long-Term Accuracy and Precision of ^{18}O and ^2H for Waters Analyzed using Laser Absorption Spectrometers. <i>Environmental Science & Technology</i> , 2014, 48, 1123-1131.	10.0	69
49	Critique: measuring hydrogen stable isotope abundance of proteins to infer origins of wildlife, food and people. <i>Bioanalysis</i> , 2013, 5, 751-767.	1.5	68
50	Linking Breeding and Wintering Grounds of Bicknell's Thrushes Using Stable Isotope Analyses of Feathers. <i>Auk</i> , 2001, 118, 16-23.	1.4	66
51	USING ISOTOPIC VARIANCE TO DETECT LONG-DISTANCE DISPERSAL AND PHILOPATRY IN BIRDS: AN EXAMPLE WITH OVENBIRDS AND AMERICAN REDSTARTS. <i>Condor</i> , 2004, 106, 732.	1.6	66
52	Isotopic Evidence That Dragonflies (<i>Pantala flavescens</i>) Migrating through the Maldives Come from the Northern Indian Subcontinent. <i>PLoS ONE</i> , 2012, 7, e52594.	2.5	66
53	Paleohydrogeology of the Cretaceous sediments of the Williston Basin using stable isotopes of water. <i>Water Resources Research</i> , 2013, 49, 4580-4592.	4.2	66
54	Isotopic evidence for widespread cold-season-biased groundwater recharge and young streamflow across central Canada. <i>Hydrological Processes</i> , 2017, 31, 2196-2209.	2.6	65

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55	A stable carbon and nitrogen isotope study of lake food webs in Canada's Boreal Plain. <i>Freshwater Biology</i> , 2001, 46, 465-477.	2.4	63
56	Comparative microscale analysis of the effects of triclosan and triclocarban on the structure and function of river biofilm communities. <i>Science of the Total Environment</i> , 2009, 407, 3307-3316.	8.0	63
57	LIMS for Lasers 2015 for achieving long-term accuracy and precision of $\delta^2\text{H}$, $\delta^{17}\text{O}$, and $\delta^{18}\text{O}$ of waters using laser absorption spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 2122-2130.	1.5	62
58	A unified Craig-Gordon isotope model of stable hydrogen and oxygen isotope fractionation during fresh or saltwater evaporation. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 235, 224-236.	3.9	60
59	Worldwide proficiency test for routine analysis of $\delta^2\text{H}$ and $\delta^{18}\text{O}$ in water by isotope-ratio mass spectrometry and laser absorption spectroscopy. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 1641-1648.	1.5	59
60	A dragonfly ($\delta^2\text{H}$) isoscape for North America: a new tool for determining natal origins of migratory aquatic emergent insects. <i>Methods in Ecology and Evolution</i> , 2012, 3, 766-772.	5.2	58
61	LINKING BREEDING AND WINTERING GROUNDS OF BICKNELL'S THRUSHES USING STABLE ISOTOPE ANALYSES OF FEATHERS. <i>Auk</i> , 2001, 118, 16.	1.4	58
62	Isotopic composition (^{13}C , ^{14}C , ^2H) and geochemistry of aquatic humic substances from groundwater. <i>Organic Geochemistry</i> , 1990, 15, 383-396.	1.8	56
63	Stable carbon and hydrogen isotopes from bat guano in the Grand Canyon, USA, reveal Younger Dryas and 8.2 ka events. <i>Geology</i> , 2008, 36, 683.	4.4	56
64	Determining the stable isotope composition of pore water from saturated and unsaturated zone core: improvements to the direct vapour equilibration laser spectrometry method. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 4427-4440.	4.9	56
65	Differential migration and the link between winter latitude, timing of migration, and breeding in a songbird. <i>Oecologia</i> , 2016, 181, 413-422.	2.0	56
66	Global patterns of nitrate isotope composition in rivers and adjacent aquifers reveal reactive nitrogen cascading. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	56
67	ISOTOPIC DELINEATION OF NORTH AMERICAN MIGRATORY WILDLIFE POPULATIONS: LOGGERHEAD SHRIKES. , 2001, 11, 1545-1553.		54
68	Feather stable isotopes in western North American waterfowl: spatial patterns, underlying factors, and management applications. <i>Wildlife Society Bulletin</i> , 2005, 33, 92-102.	1.6	54
69	Seeking excellence: An evaluation of 235 international laboratories conducting water isotope analyses by isotope-ratio and laser-absorption spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 393-406.	1.5	54
70	Spatio-temporal variation of nitrate sources to Lake Winnipeg using N and O isotope ($\delta^{15}\text{N}$, $\delta^{18}\text{O}$) analyses. <i>Science of the Total Environment</i> , 2019, 647, 486-493.	8.0	54
71	A Triple-Isotope Approach to Predict the Breeding Origins of European Bats. <i>PLoS ONE</i> , 2012, 7, e30388.	2.5	53
72	Radiocarbon in Dissolved Organic Carbon, A Possible Groundwater Dating Method: Case Studies From Western Canada. <i>Water Resources Research</i> , 1991, 27, 1975-1986.	4.2	52

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73	Stable Isotopes ($\delta^{13}\text{C}$, $\delta^{15}\text{N}$) Reveal Associations Among Geographic Location and Condition of Alaskan Northern Pintails. <i>Journal of Wildlife Management</i> , 2008, 72, 715-725.	1.8	51
74	Origin and structures of groundwater humic substances from three Danish aquifers. <i>Environment International</i> , 1996, 22, 519-534.	10.0	50
75	Characterizing the hydrogeology of a complex clay-rich aquitard system using detailed vertical profiles of the stable isotopes of water. <i>Journal of Hydrology</i> , 2004, 293, 47-56.	5.4	50
76	Tracking Cats: Problems with Placing Feline Carnivores on $\delta^{18}\text{O}$, $\delta^{13}\text{C}$ Isoscapes. <i>PLoS ONE</i> , 2011, 6, e24601.	2.5	49
77	STRUCTURAL AND FUNCTIONAL RESPONSES OF RIVER BIOFILM COMMUNITIES TO THE NONSTEROIDAL ANTI-INFLAMMATORY DICLOFENAC. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 573.	4.3	48
78	Migratory Connectivity of the Monarch Butterfly (<i>Danaus plexippus</i>): Patterns of Spring Re-Colonization in Eastern North America. <i>PLoS ONE</i> , 2012, 7, e31891.	2.5	48
79	Stable isotope and band-encounter analyses delineate migratory patterns and catchment areas of white-throated sparrows at a migration monitoring station. <i>Oecologia</i> , 2005, 144, 541-549.	2.0	47
80	An online temperature-controlled vacuum-equilibration preparation system for the measurement of $\delta^2\text{H}$ values of non-exchangeable H_2 and of $\delta^{18}\text{O}$ values in organic materials by isotope-ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 397-407.	1.5	47
81	AQUATIC METABOLISM AND ECOSYSTEM HEALTH ASSESSMENT USING DISSOLVED O_2 STABLE ISOTOPE DIEL CURVES. <i>Ecological Applications</i> , 2008, 18, 965-982.	3.8	46
82	A test of comparative equilibration for determining non-exchangeable stable hydrogen isotope values in complex organic materials. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2316-2320.	1.5	46
83	Defining fish community structure in Lake Winnipeg using stable isotopes ($\delta^{13}\text{C}$, $\delta^{15}\text{N}$, $\delta^{34}\text{S}$): Implications for monitoring ecological responses and trophodynamics of mercury & other trace elements. <i>Science of the Total Environment</i> , 2014, 497-498, 239-249.	8.0	45
84	DO NORTH AMERICAN MONARCH BUTTERFLIES TRAVEL TO CUBA? STABLE ISOTOPE AND CHEMICAL TRACER TECHNIQUES. , 2004, 14, 1106-1114.		44
85	Stable isotopes in ecological studies. <i>Oecologia</i> , 2005, 144, 517-519.	2.0	43
86	Improved online $\delta^{18}\text{O}$ measurements of nitrogen- and sulfur-bearing organic materials and a proposed analytical protocol. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 2049-2058.	1.5	42
87	Migration distance as a selective episode for wing morphology in a migratory insect. <i>Movement Ecology</i> , 2017, 5, 7.	2.8	42
88	Contrasting assignment of migratory organisms to geographic origins using long-term versus year-specific precipitation isotope maps. <i>Methods in Ecology and Evolution</i> , 2014, 5, 891-900.	5.2	41
89	Distribution and isotopic characterization of methane in a confined aquifer in southern Ontario, Canada. <i>Journal of Hydrology</i> , 1995, 173, 51-70.	5.4	40
90	An Automated Technique for Measuring $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ Values of Porewater by Direct CO_2 and H_2 Equilibration. <i>Analytical Chemistry</i> , 2000, 72, 5659-5664.	6.5	40

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91	Geochemical and transport properties of dissolved organic carbon in a clay-rich aquitard. <i>Water Resources Research</i> , 2003, 39, .	4.2	40
92	An Introduction to Light Stable Isotopes for Use in Terrestrial Animal Migration Studies. <i>Journal of Nano Education (Print)</i> , 2008, 2, 21-44.	0.3	40
93	A Ti(III) reduction method for one-step conversion of seawater and freshwater nitrate into N ₂ O for stable isotopic analysis of ¹⁵ N/ ¹⁴ N, ¹⁸ O/ ¹⁶ O and ¹⁷ O/ ¹⁶ O. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 1227-1239.	1.5	40
94	Stable hydrogen isotopes of bison bone collagen as a proxy for Holocene climate on the Northern Great Plains. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006, 239, 87-99.	2.3	39
95	Community-Level Assessment of the Effects of the Broad-Spectrum Antimicrobial Chlorhexidine on the Outcome of River Microbial Biofilm Development. <i>Applied and Environmental Microbiology</i> , 2008, 74, 3541-3550.	3.1	39
96	Cl/Br ratios and stable chlorine isotope analysis of magmatic hydrothermal fluid inclusions from Butte, Montana and Bingham Canyon, Utah. <i>Mineralium Deposita</i> , 2009, 44, 837-848.	4.1	39
97	Understanding the migration ecology of European red admirals <i>Vanessa atalanta</i> using stable hydrogen isotopes. <i>Ecography</i> , 2010, 33, 720-729.	4.5	38
98	Using Stable Hydrogen Isotope Analysis of Feathers to Delineate Origins of Harvested Sandhill Cranes in the Central Flyway of North America. <i>Waterbirds</i> , 2006, 29, 137-147.	0.3	37
99	Selected Papers of the 3rd International Conference on Applications of Stable Isotope Techniques to Ecological Studies. <i>Isotopes in Environmental and Health Studies</i> , 2003, 39, 1-3.	1.0	36
100	Estimating endogenous nutrient allocations to reproduction in Redhead Ducks: a dual isotope approach using deltaD and delta13C measurements of female and egg tissues. <i>Functional Ecology</i> , 2004, 18, 737-745.	3.6	36
101	Isotopic characterization of nitrate sources and transformations in Lake Winnipeg and its contributing rivers, Manitoba, Canada. <i>Journal of Great Lakes Research</i> , 2012, 38, 135-146.	1.9	36
102	Can argillaceous formations isolate nuclear waste? Insights from isotopic, noble gas, and geochemical profiles. <i>Geofluids</i> , 2015, 15, 381-386.	0.7	36
103	Improved high-resolution global and regionalized isoscapes of ¹⁸ O, ² H and <i>d</i> -excess in 2.6 precipitation. <i>Hydrological Processes</i> , 2021, 35, e14254.		36
104	Radiocarbon and stable isotopes in water and dissolved constituents, Milk River aquifer, Alberta, Canada. <i>Applied Geochemistry</i> , 1991, 6, 381-392.	3.0	35
105	Identification of Summer Origins of Songbirds Migrating through Southern Canada in Autumn. <i>Avian Conservation and Ecology</i> , 2006, 1, .	0.8	35
106	The stable isotopic composition (37Cl/35Cl) of dissolved chloride in rainwater. <i>Applied Geochemistry</i> , 2010, 25, 91-96.	3.0	35
107	Effects of size and diet on stable hydrogen isotope values (δD) in fish: implications for tracing origins of individuals and their food sources. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2011, 68, 2011-2019.	1.4	35
108	Stable isotopes in global lakes integrate catchment and climatic controls on evaporation. <i>Nature Communications</i> , 2021, 12, 7224.	12.8	35

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109	Connecting Breeding and Wintering Habitats of Migratory Piscivorous Birds: Implications for Tracking Contaminants (Hg) Using Multiple Stable Isotopes. <i>Environmental Science & Technology</i> , 2012, 46, 3263-3272.	10.0	34
110	Stable $\delta^2\text{H}$ hydrogen isotope measures of natal dispersal reflect observed population declines in a threatened migratory songbird. <i>Diversity and Distributions</i> , 2012, 18, 919-930.	4.1	34
111	On-Line Technique for the Determination of the $\delta^{37}\text{Cl}$ of Inorganic and Total Organic Cl in Environmental Samples. <i>Analytical Chemistry</i> , 2004, 76, 6384-6388.	6.5	33
112	Isotope constraints on water, carbon, and heat fluxes from the northern Great Plains region of North America. <i>Global Biogeochemical Cycles</i> , 2007, 21, n/a-n/a.	4.9	33
113	Correcting for Methane Interferences on $\delta^{22}\text{H}$ and $\delta^{18}\text{O}$ Measurements in Pore Water Using H_2O (liquid) \leftrightarrow H_2O (vapor) Equilibration Laser Spectroscopy. <i>Analytical Chemistry</i> , 2011, 83, 5789-5796.	6.5	33
114	Mechanisms Controlling the Distribution and Transport of ^{14}C in a Clay-Rich Till Aquitard. <i>Ground Water</i> , 2000, 38, 343-349.	1.3	32
115	Stable Isotopes ($\delta^{18}\text{O}$, $\delta^2\text{H}$) of Pore Waters in Clay-Rich Aquitards: A Comparison and Evaluation of Measurement Techniques. <i>Ground Water Monitoring and Remediation</i> , 2001, 21, 108-116.	0.8	32
116	Inferring Heterogeneity in Aquitards Using High-Resolution $\delta^2\text{H}$ and $\delta^{18}\text{O}$ Profiles. <i>Ground Water</i> , 2009, 47, 639-645.	1.3	32
117	A geostatistical approach to optimize water quality monitoring networks in large lakes: Application to Lake Winnipeg. <i>Journal of Great Lakes Research</i> , 2012, 38, 174-182.	1.9	32
118	Distribution and biogeochemical importance of bacterial populations in a thick clay-rich aquitard system. <i>Microbial Ecology</i> , 2000, 40, 273-291.	2.8	31
119	Stable isotope analyses of feathers help identify autumn stopover sites of three long-distance migrants in northeastern Africa. <i>Journal of Avian Biology</i> , 2005, 36, 235-241.	1.2	31
120	Monarch butterflies cross the Appalachians from the west to recolonize the east coast of North America. <i>Biology Letters</i> , 2011, 7, 43-46.	2.3	31
121	High-frequency NO_3^- isotope ($\delta^{15}\text{N}$) groundwater recharge reveal that short-term changes in land use and precipitation influence nitrate contamination trends. <i>Hydrology and Earth System Sciences</i> , 2010, 22, 4267-4270.	4.9	31
122	Dynamics and Stable Isotope Composition of Gaseous and Dissolved Oxygen. <i>Ground Water</i> , 2007, 45, 447-460.	1.3	30
123	Controls on the long-term downward transport of $\delta^2\text{H}$ of water in a regionally extensive, two-layered aquitard system. <i>Water Resources Research</i> , 2011, 47, .	4.2	30
124	Millennial-scale diffusive migration of solutes in thick clay-rich aquitards: evidence from multiple environmental tracers. <i>Hydrogeology Journal</i> , 2011, 19, 259-270.	2.1	30
125	Improved Piezometer Construction and Sampling Techniques to Determine Pore Water Chemistry in Aquitards. <i>Ground Water</i> , 1999, 37, 564-571.	1.3	29
126	Migratory Connectivity in Bicknell's Thrush: Locating Missing Populations With Hydrogen Isotopes. <i>Condor</i> , 2004, 106, 905-909.	1.6	29

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127	An isotopic baseline ($\delta^{13}\text{C}$, $\delta^{15}\text{N}$) for fishes of Lake Winnipeg: Implications for investigating impacts of eutrophication and invasive species. <i>Journal of Great Lakes Research</i> , 2012, 38, 58-65.	1.9	29
128	Origin and migration of dissolved organic carbon fractions in a clay-rich aquitard: $\delta^{14}\text{C}$ and $\delta^{13}\text{C}$ evidence. <i>Water Resources Research</i> , 2005, 41, .	4.2	28
129	Aquatic community metabolism response to municipal effluent inputs in rivers quantified using diel $\delta^{18}\text{O}$ values of dissolved oxygen. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2010, 67, 1232-1246.	1.4	28
130	Correcting Laser-Based Water Stable Isotope Readings Biased by Carrier Gas Changes. <i>Environmental Science & Technology</i> , 2016, 50, 7074-7081.	10.0	28
131	MIGRATORY CONNECTIVITY IN BICKNELL'S THRUSH: LOCATING MISSING POPULATIONS WITH HYDROGEN ISOTOPES. <i>Condor</i> , 2004, 106, 905.	1.6	27
132	Origins of American Kestrels Wintering at Two Southern U.S. Sites: An Investigation Using Stable-Isotope ($\delta^2\text{H}$, $\delta^{18}\text{O}$) Methods. <i>Journal of Raptor Research</i> , 2009, 43, 325-337.	0.6	27
133	Corrigendum "Geographic variation in the isotopic ($\delta^2\text{H}$, $\delta^{13}\text{C}$, $\delta^{15}\text{N}$) Tj ETQq1 1 0.784314 rgBT /Overlock implications for studies of migratory connectivity. <i>Canadian Journal of Zoology</i> , 2009, 87, 553-554.	1.0	27
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