

# Leonard I Wassenaar

## List of Publications by Citations

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232  
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52  
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243  
ext. papers

11,654  
ext. citations

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#	Paper	IF	Citations
232	Global application of stable hydrogen and oxygen isotopes to wildlife forensics. <i>Oecologia</i> , <b>2005</b> , 143, 337-48	2.9	710
231	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> , <b>2003</b> , 39, 211-7	1.5	468
230	Linking breeding and wintering grounds of neotropical migrant songbirds using stable hydrogen isotopic analysis of feathers. <i>Oecologia</i> , <b>1996</b> , 109, 142-148	2.9	433
229	Evaluation of the origin and fate of nitrate in the Abbotsford Aquifer using the isotopes of $^{15}\text{N}$ and $^{18}\text{O}$ in $\text{NO}_3^-$ <i>Applied Geochemistry</i> , <b>1995</b> , 10, 391-405	3.5	339
228	High-precision laser spectroscopy D/H and $^{18}\text{O}/^{16}\text{O}$ measurements of microliter natural water samples. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 287-93	7.8	322
227	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> , <b>1998</b> , 95, 15436-9	11.5	225
226	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> , <b>2004</b> , 13, 155-160	2.1	210
225	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> , <b>1999</b> , 96, 8003-6	11.5	204
224	Stable isotopes ( $\text{D}$ and $\text{O}$ ) are geographic indicators of natal origins of monarch butterflies in eastern North America. <i>Oecologia</i> , <b>1999</b> , 120, 397-404	2.9	166
223	Using stable hydrogen and oxygen isotope measurements of feathers to infer geographical origins of migrating European birds. <i>Oecologia</i> , <b>2004</b> , 141, 477-88	2.9	163
222	Improved Method for Determining the Stable-Hydrogen Isotopic Composition ( $\text{D}$ ) of Complex Organic Materials of Environmental Interest. <i>Environmental Science &amp; Technology</i> , <b>2000</b> , 34, 2354-2360	10.3	157
221	High resolution pore water $\delta^2\text{H}$ and $\delta^{18}\text{O}$ measurements by $\text{H}_2\text{O}(\text{liquid})-\text{H}_2\text{O}(\text{vapor})$ equilibration laser spectroscopy. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 9262-7	10.3	151
220	Individual specialization and trophic adaptability of northern pike ( <i>Esox lucius</i> ): an isotope and dietary analysis. <i>Oecologia</i> , <b>1999</b> , 120, 386-396	2.9	149
219	Global isoscapes for $\delta^{18}\text{O}$ and $\delta^2\text{H}$ in precipitation: improved prediction using regionalized climatic regression models. <i>Hydrology and Earth System Sciences</i> , <b>2013</b> , 17, 4713-4728	5.5	147
218	Stable isotopes as indicators of altitudinal distributions and movements in an Ecuadorean hummingbird community. <i>Oecologia</i> , <b>2003</b> , 136, 302-8	2.9	126
217	A groundwater isoscape ( $\text{D}$ , $^{18}\text{O}$ ) for Mexico. <i>Journal of Geochemical Exploration</i> , <b>2009</b> , 102, 123-136	3.8	123
216	Linking hydrogen ( $\text{D}/\text{H}$ ) isotopes in feathers and precipitation: sources of variance and consequences for assignment to isoscapes. <i>PLoS ONE</i> , <b>2012</b> , 7, e35137	3.7	117

215	Isotope hydrology of precipitation, surface and ground waters in the Okanagan Valley, British Columbia, Canada. <i>Journal of Hydrology</i> , <b>2011</b> , 411, 37-48	6	114
214	Effects of selected pharmaceuticals on riverine biofilm communities. <i>Canadian Journal of Microbiology</i> , <b>2005</b> , 51, 655-69	3.2	108
213	Implications of the distribution of D in pore waters for groundwater flow and the timing of geologic events in a thick aquitard system. <i>Water Resources Research</i> , <b>1999</b> , 35, 1751-1760	5.4	106
212	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> , <b>2013</b> , 280, 20131087	4.4	103
211	STABLE-CARBON AND HYDROGEN ISOTOPE RATIOS REVEAL BREEDING ORIGINS OF RED-WINGED BLACKBIRDS <b>2000</b> , 10, 911-916		102
210	Chloride and chlorine isotopes ( $^{36}\text{Cl}$ and $^{37}\text{Cl}$ ) as tracers of solute migration in a thick, clay-rich aquitard system. <i>Water Resources Research</i> , <b>2000</b> , 36, 285-296	5.4	98
209	A stable-isotope approach to delineate geographical catchment areas of avian migration monitoring stations in North America. <i>Environmental Science &amp; Technology</i> , <b>2001</b> , 35, 1845-50	10.3	96
208	Estimating $^{14}\text{C}$ Groundwater Ages in a Methanogenic Aquifer. <i>Water Resources Research</i> , <b>1995</b> , 31, 2307-2317	5.4	93
207	A method for investigating population declines of migratory birds using stable isotopes: origins of harvested lesser scaup in North America. <i>PLoS ONE</i> , <b>2009</b> , 4, e7915	3.7	91
206	Dissolved organic carbon and methane in a regional confined aquifer, southern Ontario, Canada: Carbon isotope evidence for associated subsurface sources. <i>Applied Geochemistry</i> , <b>1993</b> , 8, 483-493	3.5	90
205	Stable nitrogen isotopes in waterfowl feathers reflect agricultural land use in western Canada. <i>Environmental Science &amp; Technology</i> , <b>2001</b> , 35, 3482-7	10.3	87
204	Stable-hydrogen isotope heterogeneity in keratinous materials: mass spectrometry and migratory wildlife tissue subsampling strategies. <i>Rapid Communications in Mass Spectrometry</i> , <b>2006</b> , 20, 2505-10	2.2	86
203	Decadal geochemical and isotopic trends for nitrate in a transboundary aquifer and implications for agricultural beneficial management practices. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 4626-32	10.3	80
202	Using Isotopic Variance to Detect Long-Distance Dispersal and Philopatry in Birds: An Example with Ovenbirds and American Redstarts. <i>Condor</i> , <b>2004</b> , 106, 732-743	2.1	71
201	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> , <b>2015</b> , 19, 3419-3431	5.5	70
200	Bacteriogenic Ethane in Near-Surface Aquifers: Implications for Leaking Hydrocarbon Well Bores. <i>Environmental Science &amp; Technology</i> , <b>2000</b> , 34, 4727-4732	10.3	68
199	Stable hydrogen and oxygen isotopes in aquatic food webs are tracers of diet and provenance. <i>Functional Ecology</i> , <b>2013</b> , 27, 535-543	5.6	67
198	Spatial and temporal variability of prairie lake hydrology as revealed using stable isotopes of hydrogen and oxygen. <i>Limnology and Oceanography</i> , <b>2009</b> , 54, 101-118	4.8	67

197	Controls on the distribution of major ions in pore waters of a thick surficial aquitard. <i>Water Resources Research</i> , <b>2000</b> , 36, 503-513	5.4	67
196	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> , <b>2007</b> , 153, 385-98	2.9	66
195	Stable isotope ecology: an introduction. <i>Oecologia</i> , <b>1999</b> , 120, 312-313	2.9	65
194	An On-Line Technique for the Determination of the $\delta^{18}\text{O}$ and $\delta^{17}\text{O}$ of Gaseous and Dissolved Oxygen. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 4965-8	7.8	65
193	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> , <b>1996</b> , 32, 1815-1822	5.4	64
192	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> , <b>2017</b> , 23, 2565-2576	11.4	63
191	A multi-isotope ( $\delta^{13}\text{C}$ , $\delta^{15}\text{N}$ , $\delta^2\text{H}$ ) feather isoscape to assign Afrotropical migrant birds to origins. <i>Ecosphere</i> , <b>2012</b> , 3, art44	3.1	62
190	Linking Breeding and Wintering Grounds of Bicknell's Thrushes Using Stable Isotope Analyses of Feathers. <i>Auk</i> , <b>2001</b> , 118, 16-23	2.1	62
189	Stable isotopes ( $\delta^2\text{H}$ ) delineate the origins and migratory connectivity of harvested animals: the case of European wood pigeons. <i>Journal of Applied Ecology</i> , <b>2009</b> , 46, 572-581	5.8	61
188	Geographic variation in the isotopic ( $\delta^2\text{H}$ , $\delta^{13}\text{C}$ , $\delta^{15}\text{N}$ , $\delta^{34}\text{S}$ ) composition of feathers and claws from lesser scaup and northern pintail: implications for studies of migratory connectivity. <i>Canadian Journal of Zoology</i> , <b>2006</b> , 84, 1395-1401	1.5	60
187	Critique: measuring hydrogen stable isotope abundance of proteins to infer origins of wildlife, food and people. <i>Bioanalysis</i> , <b>2013</b> , 5, 751-67	2.1	59
186	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> , <b>2009</b> , 407, 3307-16	10.2	58
185	Using Isotopic Variance to Detect Long-Distance Dispersal and Philopatry in Birds: An Example with Ovenbirds and American Redstarts. <i>Condor</i> , <b>2004</b> , 106, 732	2.1	58
184	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> , <b>2017</b> , 31, 1193-1203	2.3	57
183	Approaches for achieving long-term accuracy and precision of $\delta^{18}\text{O}$ and $\delta^2\text{H}$ for waters analyzed using laser absorption spectrometers. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 1123-31	10.3	56
182	Technical Note: Evaluation of between-sample memory effects in the analysis of $\delta^2\text{H}$ and $\delta^{18}\text{O}$ of water samples measured by laser spectrometers. <i>Hydrology and Earth System Sciences</i> , <b>2012</b> , 16, 3925-3933	5.5	56
181	Paleohydrogeology of the Cretaceous sediments of the Williston Basin using stable isotopes of water. <i>Water Resources Research</i> , <b>2013</b> , 49, 4580-4592	5.4	56
180	Do Healthy Monarchs Migrate Farther? Tracking Natal Origins of Parasitized vs. Uninfected Monarch Butterflies Overwintering in Mexico. <i>PLoS ONE</i> , <b>2015</b> , 10, e0141371	3.7	52

179	A stable carbon and nitrogen isotope study of lake food webs in Canada's Boreal Plain. <i>Freshwater Biology</i> , <b>2001</b> , 46, 465-477	3.1	52
178	Isotopic composition ( $^{13}\text{C}$ , $^{14}\text{C}$ , $^2\text{H}$ ) and geochemistry of aquatic humic substances from groundwater. <i>Organic Geochemistry</i> , <b>1990</b> , 15, 383-396	3.1	51
177	Isotopic evidence that dragonflies ( <i>Pantala flavescens</i> ) migrating through the Maldives come from the northern Indian subcontinent. <i>PLoS ONE</i> , <b>2012</b> , 7, e52594	3.7	49
176	Linking Breeding and Wintering Grounds of Bicknell's Thrushes Using Stable Isotope Analyses of Feathers		46
175	Isotopic evidence for widespread cold-season-biased groundwater recharge and young streamflow across central Canada. <i>Hydrological Processes</i> , <b>2017</b> , 31, 2196-2209	3.3	45
174	A triple-isotope approach to predict the breeding origins of European bats. <i>PLoS ONE</i> , <b>2012</b> , 7, e30388	3.7	45
173	Stable Isotopes ( $\text{D}$ , $^{13}\text{C}$ , $^{15}\text{N}$ ) Reveal Associations Among Geographic Location and Condition of Alaskan Northern Pintails. <i>Journal of Wildlife Management</i> , <b>2008</b> , 72, 715-725	1.9	45
172	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> , <b>2004</b> , 293, 47-56	6	45
171	Stable isotope and band-encounter analyses delineate migratory patterns and catchment areas of white-throated sparrows at a migration monitoring station. <i>Oecologia</i> , <b>2005</b> , 144, 541-9	2.9	45
170	ISOTOPIC DELINEATION OF NORTH AMERICAN MIGRATORY WILDLIFE POPULATIONS: LOGGERHEAD SHRIKES <b>2001</b> , 11, 1545-1553		45
169	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> , <b>2015</b> , 19, 4427-4440	5.5	44
168	Origin and structures of groundwater humic substances from three Danish aquifers. <i>Environment International</i> , <b>1996</b> , 22, 519-534	12.9	44
167	LIMS for Lasers 2015 for achieving long-term accuracy and precision of ( $^2\text{H}$ ), ( $^{17}\text{O}$ ), and ( $^{18}\text{O}$ ) of waters using laser absorption spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2015</b> , 29, 2122-230	2.2	43
166	Stable carbon and hydrogen isotopes from bat guano in the Grand Canyon, USA, reveal Younger Dryas and 8.2 ka events. <i>Geology</i> , <b>2008</b> , 36, 683	5	43
165	Differential migration and the link between winter latitude, timing of migration, and breeding in a songbird. <i>Oecologia</i> , <b>2016</b> , 181, 413-22	2.9	42
164	A dragonfly ( $^2\text{H}$ ) isoscape for North America: a new tool for determining natal origins of migratory aquatic emergent insects. <i>Methods in Ecology and Evolution</i> , <b>2012</b> , 3, 766-772	7.7	42
163	Structural and functional responses of river biofilm communities to the nonsteroidal anti-inflammatory diclofenac. <i>Environmental Toxicology and Chemistry</i> , <b>2007</b> , 26, 573-82	3.8	42
162	Defining fish community structure in Lake Winnipeg using stable isotopes ( $^{13}\text{C}$ , $^{15}\text{N}$ , $^{34}\text{S}$ ): implications for monitoring ecological responses and trophodynamics of mercury & other trace elements. <i>Science of the Total Environment</i> , <b>2014</b> , 497-498, 239-249	10.2	41

161	Tracking cats: problems with placing feline carnivores on $\delta$ , $\delta$ isoscapes. <i>PLoS ONE</i> , <b>2011</b> , 6, e24601	3.7	41
160	Feather stable isotopes in western North American waterfowl: spatial patterns, underlying factors, and management applications. <i>Wildlife Society Bulletin</i> , <b>2005</b> , 33, 92-102	1.4	40
159	Radiocarbon in Dissolved Organic Carbon, A Possible Groundwater Dating Method: Case Studies From Western Canada. <i>Water Resources Research</i> , <b>1991</b> , 27, 1975-1986	5.4	40
158	A test of comparative equilibration for determining non-exchangeable stable hydrogen isotope values in complex organic materials. <i>Rapid Communications in Mass Spectrometry</i> , <b>2009</b> , 23, 2316-20	2.2	39
157	DO NORTH AMERICAN MONARCH BUTTERFLIES TRAVEL TO CUBA? STABLE ISOTOPE AND CHEMICAL TRACER TECHNIQUES <b>2004</b> , 14, 1106-1114		39
156	Worldwide proficiency test for routine analysis of $\delta$ H and $\delta$ 18O in water by isotope-ratio mass spectrometry and laser absorption spectroscopy. <i>Rapid Communications in Mass Spectrometry</i> , <b>2012</b> , 26, 1641-8	2.2	38
155	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> , <b>2018</b> , 32, 393-406	2.2	37
154	Stable isotopes in ecological studies. <i>Oecologia</i> , <b>2005</b> , 144, 517-9	2.9	37
153	Improved online $\delta$ 18O measurements of nitrogen- and sulfur-bearing organic materials and a proposed analytical protocol. <i>Rapid Communications in Mass Spectrometry</i> , <b>2011</b> , 25, 2049-58	2.2	36
152	Aquatic metabolism and ecosystem health assessment using dissolved O <sub>2</sub> stable isotope diel curves <b>2008</b> , 18, 965-82		36
151	Geochemical and transport properties of dissolved organic carbon in a clay-rich aquitard. <i>Water Resources Research</i> , <b>2003</b> , 39,	5.4	36
150	Spatio-temporal variation of nitrate sources to Lake Winnipeg using N and O isotope ( $\delta$ N, $\delta$ O) analyses. <i>Science of the Total Environment</i> , <b>2019</b> , 647, 486-493	10.2	35
149	Migratory connectivity of the monarch butterfly ( <i>Danaus plexippus</i> ): patterns of spring re-colonization in eastern North America. <i>PLoS ONE</i> , <b>2012</b> , 7, e31891	3.7	35
148	Distribution and isotopic characterization of methane in a confined aquifer in southern Ontario, Canada. <i>Journal of Hydrology</i> , <b>1995</b> , 173, 51-70	6	35
147	Contrasting assignment of migratory organisms to geographic origins using long-term versus year-specific precipitation isotope maps. <i>Methods in Ecology and Evolution</i> , <b>2014</b> , 5, 891-900	7.7	34
146	Estimating endogenous nutrient allocations to reproduction in Redhead Ducks: a dual isotope approach using $\delta$ and $\delta$ 13C measurements of female and egg tissues. <i>Functional Ecology</i> , <b>2004</b> , 18, 737-745	5.6	34
145	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> , <b>2008</b> , 74, 3541-50	4.8	33
144	Selected Papers of the 3rd International Conference on Applications of Stable Isotope Techniques to Ecological Studies. <i>Isotopes in Environmental and Health Studies</i> , <b>2003</b> , 39, 1-3	1.5	32

143	An automated technique for measuring deltaD and delta18O values of porewater by direct CO2 and H2 equilibration. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 5659-64	7.8	32
142	An online temperature-controlled vacuum-equilibration preparation system for the measurement of $\delta^2\text{H}$ values of non-exchangeable-H and of $\delta^{18}\text{O}$ values in organic materials by isotope-ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2015</b> , 29, 397-407	2.2	31
141	Connecting breeding and wintering habitats of migratory piscivorous birds: implications for tracking contaminants (Hg) using multiple stable isotopes. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 3263-72	10.3	31
140	Stable hydrogen isotopes of bison bone collagen as a proxy for Holocene climate on the Northern Great Plains. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>2006</b> , 239, 87-99	2.9	31
139	Effects of size and diet on stable hydrogen isotope values ( $\delta^2\text{H}$ ) in fish: implications for tracing origins of individuals and their food sources. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , <b>2011</b> , 68, 2011-2019	2.4	30
138	Understanding the migration ecology of European red admirals <i>Vanessa atalanta</i> using stable hydrogen isotopes. <i>Ecography</i> , <b>2010</b> , 33, 720-729	6.5	30
137	Cl/Br ratios and stable chlorine isotope analysis of magmatic hydrothermal fluid inclusions from Butte, Montana and Bingham Canyon, Utah. <i>Mineralium Deposita</i> , <b>2009</b> , 44, 837-848	4.8	30
136	Using Stable Hydrogen Isotope Analysis of Feathers to Delineate Origins of Harvested Sandhill Cranes in the Central Flyway of North America. <i>Waterbirds</i> , <b>2006</b> , 29, 137-147	0.5	30
135	Radiocarbon and stable isotopes in water and dissolved constituents, Milk River aquifer, Alberta, Canada. <i>Applied Geochemistry</i> , <b>1991</b> , 6, 381-392	3.5	30
134	Can argillaceous formations isolate nuclear waste? Insights from isotopic, noble gas, and geochemical profiles. <i>Geofluids</i> , <b>2015</b> , 15, 381-386	1.5	29
133	Stable-hydrogen isotope measures of natal dispersal reflect observed population declines in a threatened migratory songbird. <i>Diversity and Distributions</i> , <b>2012</b> , 18, 919-930	5	29
132	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> , <b>2012</b> , 38, 58-65	3	29
131	The stable isotopic composition ( $^{37}\text{Cl}/^{35}\text{Cl}$ ) of dissolved chloride in rainwater. <i>Applied Geochemistry</i> , <b>2010</b> , 25, 91-96	3.5	29
130	Inferring heterogeneity in aquitards using high-resolution deltaD and delta18O profiles. <i>Ground Water</i> , <b>2009</b> , 47, 639-45	2.4	29
129	An Introduction to Light Stable Isotopes for Use in Terrestrial Animal Migration Studies. <i>Journal of Nano Education (Print)</i> , <b>2008</b> , 2, 21-44		29
128	On-line technique for the determination of the delta37Cl of inorganic and total organic Cl in environmental samples. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 6384-8	7.8	29
127	Mechanisms Controlling the Distribution and Transport of $^{14}\text{C}$ in a Clay-Rich Till Aquitard. <i>Ground Water</i> , <b>2000</b> , 38, 343-349	2.4	29
126	Distribution and Biogeochemical Importance of Bacterial Populations in a Thick Clay-Rich Aquitard System. <i>Microbial Ecology</i> , <b>2000</b> , 40, 273-291	4.4	29

125	A unified Craig-Gordon isotope model of stable hydrogen and oxygen isotope fractionation during fresh or saltwater evaporation. <i>Geochimica Et Cosmochimica Acta</i> , <b>2018</b> , 235, 224-236	5.5	29
124	Isotopic characterization of nitrate sources and transformations in Lake Winnipeg and its contributing rivers, Manitoba, Canada. <i>Journal of Great Lakes Research</i> , <b>2012</b> , 38, 135-146	3	28
123	Identification of Summer Origins of Songbirds Migrating through Southern Canada in Autumn. <i>Avian Conservation and Ecology</i> , <b>2006</b> , 1,	1.5	28
122	Migratory Connectivity in Bicknell's Thrush: Locating Missing Populations With Hydrogen Isotopes. <i>Condor</i> , <b>2004</b> , 106, 905-909	2.1	28
121	Improved Piezometer Construction and Sampling Techniques to Determine Pore Water Chemistry in Aquitards. <i>Ground Water</i> , <b>1999</b> , 37, 564-571	2.4	28
120	Controls on the long-term downward transport of $\delta\text{H}$ of water in a regionally extensive, two-layered aquitard system. <i>Water Resources Research</i> , <b>2011</b> , 47,	5.4	27
119	Dynamics and stable isotope composition of gaseous and dissolved oxygen. <i>Ground Water</i> , <b>2007</b> , 45, 447-60	2.4	27
118	Correcting for methane interferences on $\delta\text{H}$ and $\delta^{18}\text{O}$ measurements in pore water using $\text{H}_2\text{O}_{\text{liquid}}\text{-H}_2\text{O}_{\text{vapor}}$ equilibration laser spectroscopy. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 5789-96	7.8	26
117	Isotope constraints on water, carbon, and heat fluxes from the northern Great Plains region of North America. <i>Global Biogeochemical Cycles</i> , <b>2007</b> , 21, n/a-n/a	5.9	26
116	Stable Isotopes ( $\delta^{18}\text{O}$ , $\delta\text{H}$ ) of Pore Waters in Clay-Rich Aquitards: A Comparison and Evaluation of Measurement Techniques. <i>Ground Water Monitoring and Remediation</i> , <b>2001</b> , 21, 108-116	1.4	26
115	Origin and migration of dissolved organic carbon fractions in a clay-rich aquitard: $^{14}\text{C}$ and $^{13}\text{C}$ evidence. <i>Water Resources Research</i> , <b>2005</b> , 41,	5.4	25
114	Millennial-scale diffusive migration of solutes in thick clay-rich aquitards: evidence from multiple environmental tracers. <i>Hydrogeology Journal</i> , <b>2011</b> , 19, 259-270	3.1	24
113	Monarch butterflies cross the Appalachians from the west to recolonize the east coast of North America. <i>Biology Letters</i> , <b>2011</b> , 7, 43-6	3.6	24
112	Estimating Origins of Three Species of Neotropical Migrant Songbirds at a Gulf Coast Stopover Site: Combining Stable Isotope and Gis Tools. <i>Condor</i> , <b>2007</b> , 109, 256-267	2.1	24
111	Stable isotope analyses of feathers help identify autumn stopover sites of three long-distance migrants in northeastern Africa. <i>Journal of Avian Biology</i> , <b>2005</b> , 36, 235-241	1.9	24
110	Microbial respiration and diffusive transport of $\text{O}_2$ , $^{16}\text{O}_2$ , and $^{18}\text{O}_2$ in unsaturated soils: a mesocosm experiment. <i>Geochimica Et Cosmochimica Acta</i> , <b>2002</b> , 66, 3367-3374	5.5	24
109	A $\text{Ti(III)}$ reduction method for one-step conversion of seawater and freshwater nitrate into $\text{N}_2\text{O}$ for stable isotopic analysis of $\text{N}/\text{N}$ , $\text{O}/\text{O}$ and $\text{O}/\text{O}$ . <i>Rapid Communications in Mass Spectrometry</i> , <b>2019</b> , 33, 1227-1239	2.2	23
108	Migration distance as a selective episode for wing morphology in a migratory insect. <i>Movement Ecology</i> , <b>2017</b> , 5, 7	4.6	23



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15	High-frequency NO <sub>3</sub> <sup>-</sup> isotope ( $\delta^{15}\text{N}$ , $\delta^{18}\text{O}$ ) patterns in groundwater recharge reveal that short-term land use and climatic changes influence nitrate contamination trends		3
14	The Pulse of the Amazon: Fluxes of Dissolved Organic Carbon, Nutrients, and Ions From the World's Largest River. <i>Global Biogeochemical Cycles</i> , <b>2021</b> , 35, e2020GB006895	5.9	3
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8	Influence of equilibration time, soil texture, and saturation on the accuracy of porewater water isotope assays using the direct H <sub>2</sub> O(liquid)-H <sub>2</sub> O(vapor) equilibration method. <i>Journal of Hydrology</i> , <b>2022</b> , 127560	6	1
7	The Use of Stable Isotopic Analyses to Identify Pulp Mill Effluent Signatures in Riverine Food Webs <b>2020</b> , 413-423		1
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3	Principles and uncertainties of C age estimations for groundwater transport and resource evaluation. <i>Isotopes in Environmental and Health Studies</i> , <b>2021</b> , 57, 111-141	1.5	0
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