

# Leonard I Wassenaar

## List of Publications by Year in Descending Order

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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.

232  
papers

10,465  
citations

52  
h-index

92  
g-index

243  
ext. papers

11,654  
ext. citations

4.2  
avg, IF

6.49  
L-index

#	Paper	IF	Citations
232	Assessment of rapid low-cost isotope (d N, d O) analyses of nitrate in fruit extracts by Ti (III) reduction to differentiate organic from conventional production.. <i>Rapid Communications in Mass Spectrometry</i> , <b>2022</b> , e9259	2.2	
231	Nitrate sources and mixing in the Danube watershed: implications for transboundary river basin monitoring and management.. <i>Scientific Reports</i> , <b>2022</b> , 12, 2150	4.9	1
230	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
229	Isotopic composition ( $\delta^{15}\text{N}$ , $\delta^{18}\text{O}$ ) of nitrate in high-frequency precipitation events differentiate atmospheric processes and anthropogenic NO <sub>x</sub> emissions. <i>Atmospheric Research</i> , <b>2022</b> , 267, 105971	5.4	3
228	Experimental Evaluation of $\delta^2\text{H}$ , $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ Variability in Blood and Feathers of Wild and Captive Birds: Implications for Interspecific Food Web Studies. <i>Diversity</i> , <b>2021</b> , 13, 495	2.5	0
227	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
226	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
225	Compound-specific stable hydrogen isotope ( $\delta^2\text{H}$ ) analyses of fatty acids: A new method and perspectives for trophic and movement ecology. <i>Rapid Communications in Mass Spectrometry</i> , <b>2021</b> , 35, e9135	2.2	4
224	Improved high-resolution global and regionalized isoscapes of $\delta^{18}\text{O}$ , $\delta^2\text{H}$ and d-excess in precipitation. <i>Hydrological Processes</i> , <b>2021</b> , 35, e14254	3.3	9
223	Global patterns of nitrate isotope composition in rivers and adjacent aquifers reveal reactive nitrogen cascading. <i>Communications Earth &amp; Environment</i> , <b>2021</b> , 2,	6.1	10
222	Performance of low-cost stainless-steel beverage kegs for long-term storage integrity and easy dispensing of water isotope ( $\delta^2\text{H}$ , $\delta^3\text{H}$ ) reference materials. <i>Rapid Communications in Mass Spectrometry</i> , <b>2021</b> , 35, e9164	2.2	1
221	Temperature and precipitation effects on the isotopic composition of global precipitation reveal long-term climate dynamics. <i>Scientific Reports</i> , <b>2021</b> , 11, 18503	4.9	5
220	Progress and challenges in dual- and triple-isotope ( $\delta^2\text{H}$ , $\delta^3\text{H}$ , $\delta^3\text{S}$ ) analyses of environmental waters: An international assessment of laboratory performance. <i>Rapid Communications in Mass Spectrometry</i> , <b>2021</b> , 35, e9193	2.2	2
219	Distinguishing in-cloud and below-cloud short and distal N-sources from high-temporal resolution seasonal nitrate and ammonium deposition in Vienna, Austria. <i>Atmospheric Environment</i> , <b>2021</b> , 266, 118740	5.3	2
218	Comparative evaluation of H- versus H-based enrichment factor determination on the uncertainty and accuracy of low-level tritium analyses of environmental waters. <i>Applied Radiation and Isotopes</i> , <b>2021</b> , 176, 109850	1.7	0
217	Stable isotopes in global lakes integrate catchment and climatic controls on evaporation. <i>Nature Communications</i> , <b>2021</b> , 12, 7224	17.4	6
216	Stable isotope fractionations in the evaporation of water: The wind effect. <i>Hydrological Processes</i> , <b>2020</b> , 34, 3596-3607	3.3	5

215	Proficiency testing of 78 international laboratories measuring tritium in environmental waters by decay counting and mass spectrometry for age dating and water resources assessment. <i>Rapid Communications in Mass Spectrometry</i> , <b>2020</b> , 34, e8832	2.2	3
214	The first IAEA inter-laboratory comparison exercise in Latin America and the Caribbean for stable isotope analyses of water samples. <i>Isotopes in Environmental and Health Studies</i> , <b>2020</b> , 56, 391-401	1.5	3
213	Small-scale chemical and isotopic variability of hydrological pathways in a mountain lake catchment. <i>Journal of Hydrology</i> , <b>2020</b> , 585, 124834	6	11
212	The Use of Stable Isotopic Analyses to Identify Pulp Mill Effluent Signatures in Riverine Food Webs <b>2020</b> , 413-423		1
211	60-year trends of $\delta^{18}O$ in global precipitation reveal large scale hydroclimatic variations. <i>Global and Planetary Change</i> , <b>2020</b> , 195, 103335	4.2	11
210	Introduction to Conducting Stable Isotope Measurements for Animal Migration Studies <b>2019</b> , 25-51		11
209	A Ti(III) reduction method for one-step conversion of seawater and freshwater nitrate into N <sub>2</sub> O for stable isotopic analysis of N <sub>2</sub> /N <sub>2</sub> O and O <sub>2</sub> /O <sub>2</sub> O. <i>Rapid Communications in Mass Spectrometry</i> , <b>2019</b> , 33, 1227-1239	2.2	23
208	Isoscape Computation and Inference of Spatial Origins With Mixed Models Using the R package IsoriX <b>2019</b> , 207-236		12
207	Outlook for Using Stable Isotopes in Animal Migration Studies <b>2019</b> , 237-244		3
206	Spatio-temporal variation of nitrate sources to Lake Winnipeg using N and O isotope ( $\delta^{15}N$ , $\delta^{18}O$ ) analyses. <i>Science of the Total Environment</i> , <b>2019</b> , 647, 486-493	10.2	35
205	$^{14}C$ chronology and stable isotopes on <i>Lymnaea viatrix</i> shells in northwest Patagonia, Argentina. Do they express the Antarctic climatic reversal?. <i>Carbonates and Evaporites</i> , <b>2019</b> , 34, 133-142	1.3	0
204	Stable isotope patterns reveal widespread rainy-period-biased recharge in phreatic aquifers across Greece. <i>Journal of Hydrology</i> , <b>2019</b> , 568, 1081-1092	6	10
203	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
202	A laboratory information management system for the analysis of tritium (H) in environmental waters. <i>Applied Radiation and Isotopes</i> , <b>2018</b> , 137, 139-146	1.7	3
201	Patterns of parasitism in monarch butterflies during the breeding season in eastern North America. <i>Ecological Entomology</i> , <b>2018</b> , 43, 28-36	2.1	11
200	High-frequency $NO_3^-/\delta^{15}N$ and $NO_3^-/\delta^{18}O$ isotope patterns in groundwater recharge reveal that short-term changes in land use and precipitation influence nitrate contamination trends. <i>Hydrology and Earth System Sciences</i> , <b>2018</b> , 22, 4267-4279	5.5	19
199	A simple polymer electrolyte membrane system for enrichment of low-level tritium (H) in environmental water samples. <i>Isotopes in Environmental and Health Studies</i> , <b>2018</b> , 54, 274-287	1.5	3
198	N and O isotope ( $\delta^{15}N$ , $\delta^{18}O$ ) analyses of dissolved $NO_2^-$ and $NO_3^-$ by the Cd-azide reduction method and $N_2O$ laser spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2018</b> , 32, 184-194	2.2	20

197	Correcting for Biogenic Gas Matrix Effects on Laser-Based Pore Water-Vapor Stable Isotope Measurements. <i>Vadose Zone Journal</i> , <b>2018</b> , 17, 170157	2.7	16
196	Geographic origin and migration phenology of European red admirals ( ) as revealed by stable isotopes. <i>Movement Ecology</i> , <b>2018</b> , 6, 25	4.6	4
195	Assessing the fate of explosives derived nitrate in mine waste rock dumps using the stable isotopes of oxygen and nitrogen. <i>Science of the Total Environment</i> , <b>2018</b> , 640-641, 127-137	10.2	12
194	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
193	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
192	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
191	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
190	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
189	Possible linkage between neuronal recruitment and flight distance in migratory birds. <i>Scientific Reports</i> , <b>2016</b> , 6, 21983	4.9	17
188	Correcting Laser-Based Water Stable Isotope Readings Biased by Carrier Gas Changes. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 7074-81	10.3	20
187	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
186	American woodcock migratory connectivity as indicated by hydrogen isotopes. <i>Journal of Wildlife Management</i> , <b>2016</b> , 80, 510-526	1.9	9
185	Measurement of extremely (2) H-enriched water samples by laser spectrometry: application to batch electrolytic concentration of environmental tritium samples. <i>Rapid Communications in Mass Spectrometry</i> , <b>2016</b> , 30, 415-22	2.2	9
184	Using hydrogen isotopes of freshwater fish tissue as a tracer of provenance. <i>Ecology and Evolution</i> , <b>2016</b> , 6, 7776-7782	2.8	9
183	Precipitation isoscapes for New Zealand: enhanced temporal detail using precipitation-weighted daily climatology. <i>Isotopes in Environmental and Health Studies</i> , <b>2016</b> , 52, 343-52	1.5	15
182	A compact tritium enrichment unit for large sample volumes with automated re-filling and higher enrichment factor. <i>Applied Radiation and Isotopes</i> , <b>2016</b> , 118, 80-86	1.7	5
181	Prey consumption and trace element concentrations in double-crested cormorants ( <i>Phalacrocorax auritus</i> ) from Lake Winnipeg, Canada. <i>Journal of Great Lakes Research</i> , <b>2015</b> , 41, 643-651	3	4
180	LIMS for Lasers 2015 for achieving long-term accuracy and precision of (2)H, (17)O, and (18)O of waters using laser absorption spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2015</b> , 29, 2122-230	2.3	43

179	Space-time tradeoffs in the development of precipitation-based isoscape models for determining migratory origin. <i>Journal of Avian Biology</i> , <b>2015</b> , 46, 658-667	1.9	15
178	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
177	A new isotopic reference material for stable hydrogen and oxygen isotope-ratio measurements of water - USGS50 Lake Kyoga Water. <i>Rapid Communications in Mass Spectrometry</i> , <b>2015</b> , 29, 2078-82	2.2	3
176	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
175	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
174	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
173	The efficacy of scale sampling for monitoring trace element concentrations and stable isotopes in commercially harvested walleye ( <i>Sander vitreus</i> ). <i>Isotopes in Environmental and Health Studies</i> , <b>2015</b> , 51, 359-71	1.5	1
172	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
171	Sensitivity of structural and functional indicators depends on type and resolution of anthropogenic activities. <i>Ecological Indicators</i> , <b>2014</b> , 45, 274-284	5.8	22
170	No evidence for assortative mating within a willow warbler migratory divide. <i>Frontiers in Zoology</i> , <b>2014</b> , 11, 52	2.8	9
169	Comparison of methods for stable isotope ratio ( $\delta^{13}\text{C}$ , $\delta^{15}\text{N}$ , $\delta^2\text{H}$ , $\delta^{18}\text{O}$ ) measurements of feathers. <i>Methods in Ecology and Evolution</i> , <b>2014</b> , 5, 363-371	7.7	12
168	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
167	Defining fish community structure in Lake Winnipeg using stable isotopes ( $\delta^{13}\text{C}$ , $\delta^{15}\text{N}$ , $\delta^3\text{S}$ ): 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
166	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
165	Inferring the ecology of willow warblers during their winter moult by sequential stable isotope analyses of remiges. <i>Journal of Avian Biology</i> , <b>2013</b> , 44, 561-566	1.9	3
164	The influence of metabolic effects on stable hydrogen isotopes in tissues of aquatic organisms. <i>Isotopes in Environmental and Health Studies</i> , <b>2013</b> , 49, 305-11	1.5	13
163	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
162	An Appraisal of the Use of Hydrogen-Isotope Methods to Delineate Origins of Migratory Saw-whet Owls in North America. <i>Condor</i> , <b>2013</b> , 115, 366-374	2.1	9

161	An exploration of migratory connectivity of the Rufous Hummingbird ( <i>Selasphorus rufus</i> ), using feather deuterium. <i>Journal of Ornithology</i> , <b>2013</b> , 154, 423-430	1.5	7
160	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
159	Conservation through connectivity: can isotopic gradients in Africa reveal winter quarters of a migratory bird?. <i>Oecologia</i> , <b>2013</b> , 171, 591-600	2.9	21
158	Hydrogen isotope variability in prairie wetland systems: implications for studies of migratory connectivity <b>2013</b> , 23, 110-21		13
157	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
156	Measurement of stable isotope activities in saline aqueous solutions using optical spectroscopy methods. <i>Isotopes in Environmental and Health Studies</i> , <b>2013</b> , 49, 378-86	1.5	14
155	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
154	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
153	The influence of metabolic rate on the contribution of stable-hydrogen and oxygen isotopes in drinking water to quail blood plasma and feathers. <i>Functional Ecology</i> , <b>2012</b> , 26, 1111-1119	5.6	9
152	In situ experiment to determine advective-diffusive controls on solute transport in a clay-rich aquitard. <i>Journal of Contaminant Hydrology</i> , <b>2012</b> , 131, 79-88	3.9	15
151	A dragonfly ( $\delta\text{H}$ ) 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
150	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
149	Determination of the hydrogen isotopic compositions of organic materials and hydrous minerals using thermal combustion laser spectroscopy. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 3640-5	7.8	12
148	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
147	Rates of microbial elemental sulfur oxidation and $^{18}\text{O}$ and $^{34}\text{S}$ isotopic fractionation under varied nutrient and temperature regimes. <i>Applied Geochemistry</i> , <b>2012</b> , 27, 186-196	3.5	7
146	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
145	Dissolved oxygen status of Lake Winnipeg: Spatio-temporal and isotopic ( $\delta^{18}\text{O}$ ) patterns. <i>Journal of Great Lakes Research</i> , <b>2012</b> , 38, 123-134	3	19
144	Numerical modeling of hydrodynamics and tracer dispersion during ice-free period in Lake Winnipeg. <i>Journal of Great Lakes Research</i> , <b>2012</b> , 38, 147-157	3	18

143	A geostatistical approach to optimize water quality monitoring networks in large lakes: Application to Lake Winnipeg. <i>Journal of Great Lakes Research</i> , <b>2012</b> , 38, 174-182	3	23
142	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
141	Lake Winnipeg: The forgotten great lake. <i>Journal of Great Lakes Research</i> , <b>2012</b> , 38, 1-5	3	20
140	A triple-isotope approach to predict the breeding origins of European bats. <i>PLoS ONE</i> , <b>2012</b> , 7, e30388	3.7	45
139	Linking hydrogen ( $\delta^2\text{H}$ ) 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
138	Solving a migration riddle using isoscapes: house martins from a Dutch village winter over West Africa. <i>PLoS ONE</i> , <b>2012</b> , 7, e45005	3.7	10
137	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
136	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
135	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 spectroscopes. <i>Hydrology and Earth System Sciences</i> , <b>2012</b> , 16, 3925-3933	5.5	56
134	A feather-precipitation hydrogen isoscape model for New Zealand: implications for eco-forensics. <i>Ecosphere</i> , <b>2012</b> , 3, art62	3.1	5
133	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> , <b>2012</b> , 26, 1641-8	2.2	38
132	Factors influencing the turnover and net isotopic discrimination of hydrogen isotopes in proteinaceous tissue: experimental results using Japanese quail. <i>Physiological and Biochemical Zoology</i> , <b>2012</b> , 85, 376-84	2	10
131	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
130	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> , <b>2011</b> , 47,	5.4	27
129	Costs and benefits of natal dispersal in yearling mallards <i>Anas platyrhynchos</i> . <i>Journal of Avian Biology</i> , <b>2011</b> , 42, 123-133	1.9	3
128	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
127	Assessing waterbird habitat use in coastal evaporative systems using stable isotopes ( $\delta^{13}\text{C}$ , $\delta^{15}\text{N}$ and $\text{D}$ ) as environmental tracers. <i>Estuarine, Coastal and Shelf Science</i> , <b>2011</b> , 92, 217-222	2.9	14
126	Effects of size and diet on stable hydrogen isotope values ( $\text{D}$ ) 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

125	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
124	Social and habitat correlates of immigrant recruitment of yearling female Mallards to breeding locations. <i>Journal of Ornithology</i> , <b>2011</b> , 152, 781-791	1.5	5
123	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> , <b>2011</b> , 25, 2049-58	2.2	36
122	Correcting for methane interferences on $\delta^2\text{H}$ and $\delta^{18}\text{O}$ measurements in pore water using $\text{H}_2\text{O}$ liquid- $\text{H}_2\text{O}$ vapor equilibration laser spectroscopy. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 5789-96	7.8	26
121	Realtime stable isotope monitoring of natural waters by parallel-flow laser spectroscopy. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 913-9	7.8	19
120	Tracing waterbird exposure to total mercury and selenium: a case study at the solar saltworks of Thyna (Sfax, Tunisia). <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 5118-24	10.3	6
119	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
118	Tracking cats: problems with placing feline carnivores on $\delta^{15}\text{N}$ , $\delta^{13}\text{C}$ isoscapes. <i>PLoS ONE</i> , <b>2011</b> , 6, e24601	3.7	41
117	Migratory connectivity in a declining bird species: using feather isotopes to inform demographic modelling. <i>Diversity and Distributions</i> , <b>2010</b> , 16, 643-654	5	13
116	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
115	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> , <b>2010</b> , 67, 1232-1246	2.4	21
114	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
113	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> , <b>2009</b> , 43, 325-337	0.9	20
112	Temporal Sources of Deuterium ( $\delta^2\text{H}$ ) Variability in Waterfowl Feathers Across a Prairie-to-Boreal Gradient. <i>Condor</i> , <b>2009</b> , 111, 255-265	2.1	16
111	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
110	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
109	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
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3	High-frequency $\text{NO}_3^-$ $^{15}\text{N}$ and $^{18}\text{O}$ isotope ( $^{15}\text{N}$ , $^{18}\text{O}$ ) patterns in groundwater recharge reveal that short-term land use and climatic changes influence nitrate contamination trends		3
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