

# James Ehleringer

## 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.

261  
papers

30,084  
citations

77  
h-index

170  
g-index

268  
ext. papers

32,393  
ext. citations

5.8  
avg, IF

7  
L-index

#	Paper	IF	Citations
261	Heterogeneous isotope effects decouple conifer leaf and branch sugar $\delta$ and $\delta$ .. <i>Oecologia</i> , <b>2022</b> , 198, 357	2.9	0
260	Breath Stable Isotope Analysis Serves as a Non-invasive Analytical Tool to Demonstrate Dietary Changes in Adolescent Students Over Time.. <i>Frontiers in Medicine</i> , <b>2021</b> , 8, 697557	4.9	
259	Seasonal and diurnal trends in progressive isotope enrichment along needles in two pine species. <i>Plant, Cell and Environment</i> , <b>2021</b> , 44, 143-155	8.4	5
258	Long-term nitrogen isotope dynamics in <i>Encelia farinosa</i> reflect plant demographics and climate. <i>New Phytologist</i> , <b>2021</b> , 232, 1226-1237	9.8	1
257	Machine learning prediction of mortality in the common desert shrub <i>Encelia farinosa</i> . <i>Ecological Informatics</i> , <b>2021</b> , 64, 101376	4.2	0
256	Interactions among intrinsic water-use efficiency and climate influence growth and flowering in a common desert shrub. <i>Oecologia</i> , <b>2021</b> , 197, 1027-1038	2.9	1
255	Rapid increases in shrubland and forest intrinsic water-use efficiency during an ongoing megadrought.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	4
254	Distinguishing the region-of-origin of roasted coffee beans with trace element ratios. <i>Food Chemistry</i> , <b>2020</b> , 320, 126602	8.5	13
253	Spatial distribution of stable isotope values of human hair <b>2020</b> , 385-410		3
252	Recent increases in drought frequency cause observed multi-year drought legacies in the tree rings of semi-arid forests. <i>Oecologia</i> , <b>2020</b> , 192, 241-259	2.9	29
251	A predictive spatial model for roasted coffee using oxygen isotopes of cellulose. <i>Rapid Communications in Mass Spectrometry</i> , <b>2020</b> , 34, e8626	2.2	3
250	Multidecadal records of intrinsic water-use efficiency in the desert shrub reveal strong responses to climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 18161-18168	11.5	11
249	Stable isotopes in hair reveal dietary protein sources with links to socioeconomic status and health. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 20044-20051	11.5	7
248	Increased in carbon isotope ratios of Brazilian fingernails are correlated with increased in socioeconomic status. <i>Npj Science of Food</i> , <b>2020</b> , 4, 9	6.3	2
247	Climate and lawn management interact to control C plant distribution in residential lawns across seven U.S. cities. <i>Ecological Applications</i> , <b>2019</b> , 29, e01884	4.9	6
246	Strontium isotope ratios of human hair from the United States: Patterns and aberrations. <i>Rapid Communications in Mass Spectrometry</i> , <b>2019</b> , 33, 461-472	2.2	9
245	Traveling There and Back Again: A Fingernail's Tale. <i>Journal of Forensic Sciences</i> , <b>2019</b> , 64, 69-76	1.8	5

244	Resident and Nonresident Fingernail Isotopes Reveal Diet and Travel Patterns,. <i>Journal of Forensic Sciences</i> , <b>2019</b> , 64, 77-87	1.8	7
243	The Utah urban carbon dioxide (UUCON) and Uintah Basin greenhouse gas networks: instrumentation, data, and measurement uncertainty. <i>Earth System Science Data</i> , <b>2019</b> , 11, 1291-1308	10.5	7
242	Long-term urban carbon dioxide observations reveal spatial and temporal dynamics related to urban characteristics and growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 2912-2917	11.5	80
241	Strontium isotope ratios of human hair record intra-city variations in tap water source. <i>Scientific Reports</i> , <b>2018</b> , 8, 3334	4.9	28
240	Evaluation of childhood nutrition by dietary survey and stable isotope analyses of hair and breath. <i>American Journal of Human Biology</i> , <b>2018</b> , 30, e23103	2.7	9
239	Disentangling seasonal and interannual legacies from inferred patterns of forest water and carbon cycling using tree-ring stable isotopes. <i>Global Change Biology</i> , <b>2018</b> , 24, 5332-5347	11.4	34
238	A tale of ENSO, PDO, and increasing aridity impacts on drought-deciduous shrubs in the Death Valley region. <i>Oecologia</i> , <b>2018</b> , 187, 879-895	2.9	17
237	Detection and variability of combustion-derived vapor in an urban basin. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 8529-8547	6.8	15
236	Housing Age and Affluence Influence Plant and Soil Nitrogen and Carbon Cycles in Two Semiarid Cities. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2018</b> , 123, 3178-3192	3.7	3
235	Strontium isotope ratios ( Sr/ Sr) of human fingernail clippings reveal multiple location signals. <i>Rapid Communications in Mass Spectrometry</i> , <b>2018</b> , 32, 1922-1930	2.2	11
234	Soil carbon and nitrogen accumulation in residential lawns of the Salt Lake Valley, Utah. <i>Oecologia</i> , <b>2018</b> , 187, 1107-1118	2.9	13
233	Distinctions in heterotrophic and autotrophic-based metabolism as recorded in the hydrogen and carbon isotope ratios of normal alkanes. <i>Oecologia</i> , <b>2018</b> , 187, 1053-1075	2.9	15
232	Reconstruction of travel history using coupled $\delta D$ and Sr/ Sr measurements of hair. <i>Rapid Communications in Mass Spectrometry</i> , <b>2017</b> , 31, 583-589	2.2	19
231	Stable hydrogen and oxygen isotopes of tap water reveal structure of the San Francisco Bay Area's water system and adjustments during a major drought. <i>Water Research</i> , <b>2017</b> , 119, 212-224	12.5	25
230	Evaluating the Community Land Model (CLM4.5) at a coniferous forest site in northwestern United States using flux and carbon-isotope measurements. <i>Biogeosciences</i> , <b>2017</b> , 14, 4315-4340	4.6	44
229	Using radiocarbon to constrain black and organic carbon aerosol sources in Salt Lake City. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 9843-9857	4.4	11
228	Does vapor pressure deficit drive the seasonality of $\delta^{13}C$ of the net land-atmosphere CO <sub>2</sub> exchange across the United States?. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2017</b> , 122, 1969-1987	3.7	3
227	Latitudinal gradients in tree ring stable carbon and oxygen isotopes reveal differential climate influences of the North American Monsoon System. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2016</b> , 121, 1978-1991	3.7	48

226	Tap water isotope ratios reflect urban water system structure and dynamics across a semiarid metropolitan area. <i>Water Resources Research</i> , <b>2016</b> , 52, 5891-5910	5.4	41
225	Convergence in nitrogen deposition and cryptic isotopic variation across urban and agricultural valleys in northern Utah. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2016</b> , 121, 2340-2355	3.7	13
224	The influences of cultivation setting on inflorescence lipid distributions, concentrations, and carbon isotope ratios of Cannabis sp. <i>Forensic Science International</i> , <b>2016</b> , 262, 233-41	2.6	8
223	Canopy-scale biophysical controls of transpiration and evaporation in the Amazon Basin. <i>Hydrology and Earth System Sciences</i> , <b>2016</b> , 20, 4237-4264	5.5	32
222	Spatial patterns and source attribution of urban methane in the Los Angeles Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 2490-2507	4.4	37
221	Urban water - a new frontier in isotope hydrology. <i>Isotopes in Environmental and Health Studies</i> , <b>2016</b> , 52, 477-86	1.5	32
220	Urban high-resolution fossil fuel CO2 emissions quantification and exploration of emission drivers for potential policy applications. <i>Urban Ecosystems</i> , <b>2016</b> , 19, 1013-1039	2.8	43
219	Forensic Stable Isotope Biogeochemistry. <i>Annual Review of Earth and Planetary Sciences</i> , <b>2016</b> , 44, 175-206	5.3	39
218	Mitigation of methane emissions in cities: How new measurements and partnerships can contribute to emissions reduction strategies. <i>Earth's Future</i> , <b>2016</b> , 4, 408-425	7.9	29
217	Design and application of a mobile ground-based observatory for continuous measurements of atmospheric trace-gas and criteria pollutant species <b>2015</b> ,		1
216	Vapor hydrogen and oxygen isotopes reflect water of combustion in the urban atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 3247-52	11.5	23
215	Sphere of Sustainability: Lessons from the University of Utah's Global Changes and Society Course. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2015</b> , 141,	2.8	4
214	Stable isotopes (carbon, nitrogen, sulfur), diet, and anthropometry in urban Colombian women: investigating socioeconomic differences. <i>American Journal of Human Biology</i> , <b>2015</b> , 27, 207-18	2.7	14
213	The potential for application of ink stable isotope analysis in questioned document examination. <i>Science and Justice - Journal of the Forensic Science Society</i> , <b>2015</b> , 55, 27-33	2	6
212	Riparian plant isotopes reflect anthropogenic nitrogen perturbations: robust patterns across land use gradients. <i>Ecosphere</i> , <b>2015</b> , 6, art200	3.1	10
211	iSAW: Integrating Structure, Actors, and Water to study socio-hydro-ecological systems. <i>Earth's Future</i> , <b>2015</b> , 3, 110-132	7.9	29
210	Isotopic composition of sheep wool records seasonality of climate and diet. <i>Rapid Communications in Mass Spectrometry</i> , <b>2015</b> , 29, 1357-69	2.2	19
209	Design and application of a mobile ground-based observatory for continuous measurements of atmospheric trace gas and criteria pollutant species. <i>Atmospheric Measurement Techniques</i> , <b>2015</b> , 8, 3481-3492	4.12	12

208	Radiocarbon-Based Partitioning of Soil Respiration in an Old-Growth Coniferous Forest. <i>Ecosystems</i> , <b>2015</b> , 18, 459-470	3.9	12
207	Carbon and nitrogen isotope ratios of factory-produced RDX and HMX. <i>Forensic Science International</i> , <b>2014</b> , 240, 80-7	2.6	24
206	Deconvolution of isotope signals from bundles of multiple hairs. <i>Oecologia</i> , <b>2014</b> , 175, 781-9	2.9	24
205	Observations and sources of carbon and nitrogen isotope ratio variation of pentaerythritol tetranitrate (PETN). <i>Forensic Science International</i> , <b>2014</b> , 244, 152-7	2.6	13
204	Isolation and stable nitrogen isotope analysis of ammonium ions in ammonium nitrate pills using sodium tetraphenylborate. <i>Rapid Communications in Mass Spectrometry</i> , <b>2014</b> , 28, 1530-4	2.2	16
203	Patterns of local and nonlocal water resource use across the western U.S. determined via stable isotope intercomparisons. <i>Water Resources Research</i> , <b>2014</b> , 50, 8034-8049	5.4	35
202	Isolation of strontium pools and isotope ratios in modern human hair. <i>Analytica Chimica Acta</i> , <b>2013</b> , 798, 64-73	6.6	38
201	Dietary heterogeneity among Western industrialized countries reflected in the stable isotope ratios of human hair. <i>PLoS ONE</i> , <b>2012</b> , 7, e34234	3.7	60
200	Hydrogen and oxygen isotope ratios in body water and hair: modeling isotope dynamics in nonhuman primates. <i>American Journal of Primatology</i> , <b>2012</b> , 74, 651-60	2.5	28
199	<sup>14</sup> C analyses quantify time lag between coca leaf harvest and street-level seizure of cocaine. <i>Forensic Science International</i> , <b>2012</b> , 214, 7-12	2.6	12
198	Assessment of ground-based atmospheric observations for verification of greenhouse gas emissions from an urban region. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 8423-8	11.5	174
197	Strontium isotopes in tap water from the coterminous USA. <i>Ecosphere</i> , <b>2012</b> , 3, art67	3.1	34
196	Combining tower mixing ratio and community model data to estimate regional-scale net ecosystem carbon exchange by boundary layer inversion over four flux towers in the United States. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		7
195	Urban carbon dioxide cycles within the Salt Lake Valley: A multiple-box model validated by observations. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		54
194	<sup>14</sup> C Calibration Curves for Modern Plant Material from Tropical Regions of South America. <i>Radiocarbon</i> , <b>2011</b> , 53, 585-594	4.6	8
193	Spatial distributions of carbon, nitrogen and sulfur isotope ratios in human hair across the central United States. <i>Rapid Communications in Mass Spectrometry</i> , <b>2011</b> , 25, 861-8	2.2	70
192	Worldwide stable carbon and nitrogen isotopes of Big Mac <sup>®</sup> patties: An example of a truly "local" food. <i>Food Chemistry</i> , <b>2011</b> , 127, 1712-1718	8.5	28
191	Temporal variation of oxygen isotope ratios ( <sup>18</sup> O) in drinking water: implications for specifying location of origin with human scalp hair. <i>Forensic Science International</i> , <b>2011</b> , 208, 156-66	2.6	57

190	Links between purchase location and stable isotope ratios of bottled water, soda, and beer in the United States. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 7311-6	5.7	35
189	Hydrogen and oxygen stable isotope ratios of milk in the United States. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 2358-63	5.7	65
188	Stable isotope analysis of modern human hair collected from Asia (China, India, Mongolia, and Pakistan). <i>American Journal of Physical Anthropology</i> , <b>2010</b> , 141, 440-51	2.5	77
187	Tamarisk biocontrol in the western United States: ecological and societal implications. <i>Frontiers in Ecology and the Environment</i> , <b>2010</b> , 8, 467-474	5.5	72
186	Tracing retail cannabis in the United States: geographic origin and cultivation patterns. <i>International Journal of Drug Policy</i> , <b>2010</b> , 21, 222-8	5.5	23
185	Stable isotope models to predict geographic origin and cultivation conditions of marijuana. <i>Science and Justice - Journal of the Forensic Science Society</i> , <b>2010</b> , 50, 86-93	2	34
184	Dietary and physiological controls on the hydrogen and oxygen isotope ratios of hair from mid-20th century indigenous populations. <i>American Journal of Physical Anthropology</i> , <b>2009</b> , 139, 494-504	2.5	109
183	Stable isotope ratios of marijuana. I. Carbon and nitrogen stable isotopes describe growth conditions. <i>Journal of Forensic Sciences</i> , <b>2009</b> , 54, 84-9	1.8	37
182	The stable isotope ratios of marijuana. II. Strontium isotopes relate to geographic origin. <i>Journal of Forensic Sciences</i> , <b>2009</b> , 54, 1261-9	1.8	47
181	Isoscapes to Address Large-Scale Earth Science Challenges. <i>Eos</i> , <b>2009</b> , 90, 109-110	1.5	34
180	Elevated stream inorganic nitrogen impacts on a dominant riparian tree species: Results from an experimental riparian stream system. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		5
179	Variation of hydrogen, carbon, nitrogen, and oxygen stable isotope ratios in an American diet: fast food meals. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 4084-91	5.7	52
178	Hydrogen and oxygen isotope ratios in human hair are related to geography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 2788-93	11.5	275
177	Understanding the Influences of Spatial Patterns on N Availability Within the Brazilian Amazon Forest. <i>Ecosystems</i> , <b>2008</b> , 11, 1234-1246	3.9	59
176	Wood anatomy constrains stomatal responses to atmospheric vapor pressure deficit in irrigated, urban trees. <i>Oecologia</i> , <b>2008</b> , 156, 13-20	2.9	92
175	Effect of gender on sap-flux-scaled transpiration in a dominant riparian tree species: Box elder ( <i>Acer negundo</i> ). <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		14
174	Stable isotope ratios of tap water in the contiguous United States. <i>Water Resources Research</i> , <b>2007</b> , 43,	5.4	172
173	Inferring biogenic and anthropogenic carbon dioxide sources across an urban to rural gradient. <i>Oecologia</i> , <b>2007</b> , 152, 307-22	2.9	95

172	Environmental controls on the carbon isotope composition of ecosystem-respired CO <sub>2</sub> in contrasting forest ecosystems in Canada and the USA. <i>Tree Physiology</i> , <b>2007</b> , 27, 1361-74	4.2	27
171	Summer precipitation influences the stable oxygen and carbon isotopic composition of tree-ring cellulose in <i>Pinus ponderosa</i> . <i>Tree Physiology</i> , <b>2007</b> , 27, 491-501	4.2	44
170	Geographical patterns of human diet derived from stable-isotope analysis of fingernails. <i>American Journal of Physical Anthropology</i> , <b>2006</b> , 131, 137-46	2.5	110
169	High resolution atmospheric monitoring of urban carbon dioxide sources. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	70
168	Seasonal and interannual variations of carbon and oxygen isotopes of respired CO <sub>2</sub> in a tallgrass prairie: Measurements and modeling results from 3 years with contrasting water availability. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		30
167	Stable isotopes as one of nature's ecological recorders. <i>Trends in Ecology and Evolution</i> , <b>2006</b> , 21, 408-14	10.9	342
166	Turnover of stable carbon isotopes in the muscle, liver, and breath CO <sub>2</sub> of alpacas ( <i>Lama pacos</i> ). <i>Rapid Communications in Mass Spectrometry</i> , <b>2006</b> , 20, 1395-9	2.2	84
165	Water extraction times for plant and soil materials used in stable isotope analysis. <i>Rapid Communications in Mass Spectrometry</i> , <b>2006</b> , 20, 1317-21	2.2	374
164	Regional CO <sub>2</sub> fluxes inferred from mixing ratio measurements: estimates from flask air samples in central Kansas, USA. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2006</b> , 58, 523-536	3.3	19
163	Contributions of evaporation, isotopic non-steady state transpiration and atmospheric mixing on the delta18O of water vapour in Pacific Northwest coniferous forests. <i>Plant, Cell and Environment</i> , <b>2006</b> , 29, 77-94	8.4	126
162	Combining meteorology, eddy fluxes, isotope measurements, and modeling to understand environmental controls of carbon isotope discrimination at the canopy scale. <i>Global Change Biology</i> , <b>2006</b> , 12, 710-730	11.4	46
161	The stable carbon and nitrogen isotopic composition of vegetation in tropical forests of the Amazon Basin, Brazil. <i>Biogeochemistry</i> , <b>2006</b> , 79, 251-274	3.8	117
160	OXYGEN ISOTOPE RATIOS OF WATERS AND RESPIRED CO <sub>2</sub> IN AMAZONIAN FOREST AND PASTURE ECOSYSTEMS <b>2005</b> , 15, 58-70		27
159	Carbon and oxygen isotope ratios of tree ring cellulose along a precipitation transect in Oregon, United States. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110, n/a-n/a		40
158	Canopy-scale $\delta^{13}C$ of photosynthetic and respiratory CO <sub>2</sub> fluxes: observations in forest biomes across the United States. <i>Global Change Biology</i> , <b>2005</b> , 11, 633-643	11.4	64
157	Treatment methods for the determination of delta2H and delta18O of hair keratin by continuous-flow isotope-ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2005</b> , 19, 2371-8	2.2	129
156	Stable hydrogen and oxygen isotope ratios of bottled waters of the world. <i>Rapid Communications in Mass Spectrometry</i> , <b>2005</b> , 19, 3442-50	2.2	87
155	Stable Isotopes as a Tool in Urban Ecology <b>2005</b> , 199-214		14

154	ECOHYDROLOGY IN A COLORADO RIVER RIPARIAN FOREST: IMPLICATIONS FOR THE DECLINE OF POPULUS FREMONTII <b>2005</b> , 15, 1009-1018		53
153	Isotopic Fractionation of Carbon and Nitrogen During the Illicit Processing of Cocaine and Heroin in South America. <i>Journal of Forensic Sciences</i> , <b>2005</b> , 50, 1-7	1.8	23
152	Associations between carbon isotope ratios of ecosystem respiration, water availability and canopy conductance. <i>Global Change Biology</i> , <b>2004</b> , 10, 1767-1784	11.4	56
151	Short-term diet changes revealed using stable carbon isotopes in horse tail-hair. <i>Functional Ecology</i> , <b>2004</b> , 18, 616-624	5.6	70
150	Canopy Carbon Gain and Water Use: Analysis of Old-growth Conifers in the Pacific Northwest. <i>Ecosystems</i> , <b>2004</b> , 7, 482	3.9	23
149	Response of the carbon isotopic content of ecosystem, leaf, and soil respiration to meteorological and physiological driving factors in a Pinus ponderosa ecosystem. <i>Global Biogeochemical Cycles</i> , <b>2004</b> , 18, n/a-n/a	5.9	59
148	Estimating photosynthetic <sup>13</sup> C discrimination in terrestrial CO <sub>2</sub> exchange from canopy to regional scales. <i>Global Biogeochemical Cycles</i> , <b>2004</b> , 18, n/a-n/a	5.9	35
147	Estimates of net CO <sub>2</sub> flux by application of equilibrium boundary layer concepts to CO <sub>2</sub> and water vapor measurements from a tall tower. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		59
146	Carbon isotope discrimination differences within and between contrasting populations of Encelia farinosa raised under common-environment conditions. <i>Oecologia</i> , <b>2003</b> , 134, 463-70	2.9	30
145	Temporal variation in delta( <sup>13</sup> C) of ecosystem respiration in the Pacific Northwest: links to moisture stress. <i>Oecologia</i> , <b>2003</b> , 136, 129-36	2.9	78
144	Isotopic air sampling in a tallgrass prairie to partition net ecosystem CO <sub>2</sub> exchange. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		47
143	Oxygen isotope content of CO <sub>2</sub> in nocturnal ecosystem respiration: 1. Observations in forests along a precipitation transect in Oregon, USA. <i>Global Biogeochemical Cycles</i> , <b>2003</b> , 17, n/a-n/a	5.9	24
142	Oxygen isotope content of CO <sub>2</sub> in nocturnal ecosystem respiration: 2. Short-term dynamics of foliar and soil component fluxes in an old-growth ponderosa pine forest. <i>Global Biogeochemical Cycles</i> , <b>2003</b> , 17, n/a-n/a	5.9	32
141	Seasonal cycle of carbon dioxide and its isotopic composition in an urban atmosphere: Anthropogenic and biogenic effects. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		178
140	The application and interpretation of Keeling plots in terrestrial carbon cycle research. <i>Global Biogeochemical Cycles</i> , <b>2003</b> , 17,	5.9	454
139	Deuterium enriched irrigation indicates different forms of rain use in shrub/grass species of the Colorado Plateau. <i>Oecologia</i> , <b>2002</b> , 130, 345-355	2.9	138
138	C content of ecosystem respiration is linked to precipitation and vapor pressure deficit. <i>Oecologia</i> , <b>2002</b> , 131, 113-124	2.9	317
137	Predicting daytime carbon isotope ratios of atmospheric CO <sub>2</sub> within forest canopies. <i>Functional Ecology</i> , <b>2002</b> , 16, 49-57	5.6	64



136	Grass blades as tree rings: environmentally induced changes in the oxygen isotope ratio of cellulose along the length of grass blades. <i>New Phytologist</i> , <b>2002</b> , 155, 417-424	9.8	59
135	Stable Isotopes and Carbon Cycle Processes in Forests and Grasslands. <i>Plant Biology</i> , <b>2002</b> , 4, 181-189	3.7	51
134	Atmospheric CO <sub>2</sub> as a Global Change Driver Influencing Plant-Animal Interactions. <i>Integrative and Comparative Biology</i> , <b>2002</b> , 42, 424-30	2.8	58
133	Age-related variations in delta(13)C of ecosystem respiration across a coniferous forest chronosequence in the Pacific Northwest. <i>Tree Physiology</i> , <b>2002</b> , 22, 159-67	4.2	50
132	INTERSPECIFIC COMPETITION AND RESOURCE PULSE UTILIZATION IN A COLD DESERT COMMUNITY. <i>Ecology</i> , <b>2002</b> , 83, 2602-2616	4.6	73
131	Heavy and light beer: a carbon isotope approach to detect C(4) carbon in beers of different origins, styles, and prices. <i>Journal of Agricultural and Food Chemistry</i> , <b>2002</b> , 50, 6413-8	5.7	58
130	Carbon isotope discrimination in forest and pasture ecosystems of the Amazon Basin, Brazil. <i>Global Biogeochemical Cycles</i> , <b>2002</b> , 16, 56-1-56-10	5.9	62
129	Differential 18O enrichment of leaf cellulose in C <sub>3</sub> versus C <sub>4</sub> grasses. <i>Functional Plant Biology</i> , <b>2002</b> , 29, 435-442	2.7	97
128	Water use trade-offs and optimal adaptations to pulse-driven arid ecosystems. <i>Journal of Ecology</i> , <b>2001</b> , 89, 464-480	6	291
127	The mean depth of soil water uptake by two temperate grassland species over time subjected to mild soil water deficit and competitive association. <i>Plant and Soil</i> , <b>2001</b> , 230, 197-209	4.2	42
126	Time-dependent responses of soil CO <sub>2</sub> efflux components to elevated atmospheric [CO <sub>2</sub> ] and temperature in experimental forest mesocosms. <i>Plant and Soil</i> , <b>2001</b> , 229, 259-270	4.2	59
125	Tracing the geographical origin of cocaine. <i>Nature</i> , <b>2000</b> , 408, 311-2	50.4	131
124	Hydrogen and oxygen isotope ratios of tree ring cellulose for field-grown riparian trees. <i>Oecologia</i> , <b>2000</b> , 123, 481-489	2.9	100
123	Commentary: Carbon Metabolism of the Terrestrial Biosphere: A Multitechnique Approach for Improved Understanding. <i>Ecosystems</i> , <b>2000</b> , 3, 115-130	3.9	189
122	Welcome to the C <sub>4</sub> World. <i>The Paleontological Society Papers</i> , <b>2000</b> , 6, 273-286		1
121	Establishing a grassland signature in veins: 18O in the leaf water of C <sub>3</sub> and C <sub>4</sub> grasses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2000</b> , 97, 7894-8	11.5	170
120	CARBON ISOTOPE RATIOS IN BELOWGROUND CARBON CYCLE PROCESSES <b>2000</b> , 10, 412-422		568
119	INTRA- AND INTERSPECIFIC VARIATION FOR SUMMER PRECIPITATION USE IN PINYON-JUNIPER WOODLANDS. <i>Ecological Monographs</i> , <b>2000</b> , 70, 517-537	9	192

118	A mechanistic model for interpretation of hydrogen and oxygen isotope ratios in tree-ring cellulose. <i>Geochimica Et Cosmochimica Acta</i> , <b>2000</b> , 64, 21-35	5.5	571
117	WATER AND NITROGEN UPTAKE PATTERNS FOLLOWING MOISTURE PULSES IN A COLD DESERT COMMUNITY. <i>Ecology</i> , <b>2000</b> , 81, 1415-1424	4.6	129
116	WATER AND NITROGEN UPTAKE PATTERNS FOLLOWING MOISTURE PULSES IN A COLD DESERT COMMUNITY <b>2000</b> , 81, 1415		7
115	Assessing Ecosystem-Level Water Relations Through Stable Isotope Ratio Analyses <b>2000</b> , 181-198		132
114	Observations of hydrogen and oxygen isotopes in leaf water confirm the craig-gordon model under wide-ranging environmental conditions. <i>Plant Physiology</i> , <b>1999</b> , 120, 1165-74	6.6	201
113	Geo-location of heroin and cocaine by stable isotope ratios. <i>Forensic Science International</i> , <b>1999</b> , 106, 27-35	2.6	88
112	Elevated CO <sub>2</sub> and temperature impacts on different components of soil CO <sub>2</sub> efflux in Douglas-fir terracosms. <i>Global Change Biology</i> , <b>1999</b> , 5, 157-168	11.4	142
111	Hydrogen and oxygen isotope ratios of tree-ring cellulose for riparian trees grown long-term under hydroponically controlled environments. <i>Oecologia</i> , <b>1999</b> , 121, 467-477	2.9	108
110	Spatial and temporal variation in the carbon and oxygen stable isotope ratio of respired CO <sub>2</sub> in a boreal forest ecosystem** Keynote presentation.. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>1999</b> , 51, 367-384	3.3	29
109	Miocene/Pliocene shift: one step or several?. <i>Nature</i> , <b>1998</b> , 393, 127-127	50.4	13
108	Intraspecific variation of drought adaptation in brittlebush: leaf pubescence and timing of leaf loss vary with rainfall. <i>Oecologia</i> , <b>1998</b> , 113, 162-169	2.9	43
107	Carbon and oxygen isotope ratios of ecosystem respiration along an Oregon conifer transect: preliminary observations based on small-flask sampling. <i>Tree Physiology</i> , <b>1998</b> , 18, 513-519	4.2	59
106	Global vegetation change through the Miocene/Pliocene boundary. <i>Nature</i> , <b>1997</b> , 389, 153-158	50.4	1552
105	Leaf carbon isotope discrimination and nitrogen content for riparian trees along elevational transects. <i>Oecologia</i> , <b>1997</b> , 109, 362-367	2.9	201
104	Interseasonal comparison of CO concentrations, isotopic composition, and carbon dynamics in an Amazonian rainforest (French Guiana). <i>Oecologia</i> , <b>1997</b> , 110, 120-131	2.9	180
103	Carbon isotope composition of boreal plants: functional grouping of life forms. <i>Oecologia</i> , <b>1997</b> , 110, 301-311	2.9	192
102	Unusually low carbon isotope ratios in plants from hanging gardens in southern Utah. <i>Oecologia</i> , <b>1997</b> , 111, 481-489	2.9	13
101	C photosynthesis, atmospheric CO, and climate. <i>Oecologia</i> , <b>1997</b> , 112, 285-299	2.9	1074

100	Intraspecific variation of leaf pubescence and drought response in <i>Encelia farinosa</i> associated with contrasting desert environments. <i>New Phytologist</i> , <b>1997</b> , 135, 635-644	9.8	83
99	A global analysis of root distributions for terrestrial biomes. <i>Oecologia</i> , <b>1996</b> , 108, 389-411	2.9	2017
98	Rooting depth, water availability, and vegetation cover along an aridity gradient in Patagonia. <i>Oecologia</i> , <b>1996</b> , 108, 503-511	2.9	262
97	Carbon isotope discrimination in three semi-arid woodland species along a monsoon gradient. <i>Oecologia</i> , <b>1996</b> , 106, 455-460	2.9	59
96	Nitrogen isotope composition of tomato ( <i>Lycopersicon esculentum</i> Mill. cv. T-5) grown under ammonium or nitrate nutrition. <i>Plant, Cell and Environment</i> , <b>1996</b> , 19, 1317-1323	8.4	176
95	Carbon isotope composition of C4 grasses is influenced by light and water supply. <i>Plant, Cell and Environment</i> , <b>1996</b> , 19, 392-402	8.4	124
94	Carbon dioxide concentrations within forest canopies: Variation with time, stand structure, and vegetation type. <i>Global Change Biology</i> , <b>1996</b> , 2, 421-432	11.4	65
93	Limited uptake of summer precipitation by bigtooth maple ( <i>Acer grandidentatum</i> Nutt) and Gambel's oak ( <i>Quereus gambelii</i> Nutt). <i>Trees - Structure and Function</i> , <b>1995</b> , 9, 214	2.6	70
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91	Atmospheric CO(2) and the ratio of intercellular to ambient CO(2) concentrations in plants. <i>Tree Physiology</i> , <b>1995</b> , 15, 105-11	4.2	241
90	Potential for selection on plants for water-use efficiency as estimated by carbon isotope discrimination. <i>American Journal of Botany</i> , <b>1994</b> , 81, 927-935	2.7	85
89	Carbon isotope discrimination, water-use efficiency, growth, and mortality in a natural shrub population. <i>Oecologia</i> , <b>1994</b> , 100, 347-354	2.9	84
88	Integrated nitrogen, carbon, and water relations of a xylem-tapping mistletoe following nitrogen fertilization of the host. <i>Oecologia</i> , <b>1994</b> , 100, 430-438	2.9	50
87	Water and nitrogen dynamics in an arid woodland. <i>Oecologia</i> , <b>1994</b> , 99, 233-242	2.9	123
86	High levels of genetic variation in populations of four dominant aridland plant species in Arizona. <i>Journal of Arid Environments</i> , <b>1994</b> , 27, 159-167	2.5	10
85	Relations of carbon isotope discrimination and other physiological traits to yield in common bean ( <i>Phaseolus vulgaris</i> ) under rainfed conditions. <i>Journal of Agricultural Science</i> , <b>1994</b> , 122, 275-284	1	32
84	Potential for Selection on Plants for Water-Use Efficiency as Estimated by Carbon Isotope Discrimination. <i>American Journal of Botany</i> , <b>1994</b> , 81, 927	2.7	37
83	Variation in Leaf Movements among Common Bean Cultivars. <i>Crop Science</i> , <b>1994</b> , 34, 1273-1278	2.4	6

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80	Evolutionary and Ecological Aspects of Photosynthetic Pathway Variation. <i>Annual Review of Ecology, Evolution, and Systematics</i> , <b>1993</b> , 24, 411-439		535
79	GENDER-RELATED DIFFERENCES IN GAS EXCHANGE ARE NOT RELATED TO HOST QUALITY IN THE XYLEM-TAPPING MISTLETOE, PHORADENDRON JUNIPERINUM (VISCACEAE). <i>American Journal of Botany</i> , <b>1993</b> , 80, 641-645	2.7	24
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77	Variation in leaf carbon isotope discrimination in <i>Encelia farinosa</i> : implications for growth, competition, and drought survival. <i>Oecologia</i> , <b>1993</b> , 95, 340-346	2.9	113
76	Photosynthetic gas exchange and the stable isotope composition of leaf water: comparison of a xylem-tapping mistletoe and its host. <i>Plant, Cell and Environment</i> , <b>1993</b> , 16, 623-631	8.4	38
75	GENDER-RELATED DIFFERENCES IN GAS EXCHANGE ARE NOT RELATED TO HOST QUALITY IN THE XYLEM-TAPPING MISTLETOE, PHORADENDRON JUNIPERINUM (VISCACEAE) <b>1993</b> , 80, 641		15
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73	HERITABILITY OF CARBON ISOTOPE DISCRIMINATION IN GUTIERREZIA MICROCEPHALA (ASTERACEAE). <i>American Journal of Botany</i> , <b>1992</b> , 79, 216-221	2.7	39
72	Comparisons of carbon isotope discrimination in populations of aridland plant species differing in lifespan. <i>Oecologia</i> , <b>1992</b> , 91, 332-337	2.9	54
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69	Water uptake by plants: perspectives from stable isotope composition. <i>Plant, Cell and Environment</i> , <b>1992</b> , 15, 1073-1082	8.4	683
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67	Paraheliotropic Leaf Movements in Common Bean under Different Soil Nutrient Levels. <i>Crop Science</i> , <b>1992</b> , 32, 1192-1196	2.4	8
66	HERITABILITY OF CARBON ISOTOPE DISCRIMINATION IN GUTIERREZIA MICROCEPHALA (ASTERACEAE) <b>1992</b> , 79, 216		19
65	Streamside trees that do not use stream water. <i>Nature</i> , <b>1991</b> , 350, 335-337	50.4	589

64	Modification of paraheliotropic leaf movement in <i>Phaseolus vulgaris</i> by photon flux density. <i>Plant, Cell and Environment</i> , <b>1991</b> , 14, 339-343	8.4	12
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62	Differential utilization of summer rains by desert plants. <i>Oecologia</i> , <b>1991</b> , 88, 430-434	2.9	357
61	Ecophysiological differences among juvenile and reproductive plants of several woody species. <i>Oecologia</i> , <b>1991</b> , 86, 594-597	2.9	144
60	Seasonal carbon isotope discrimination in a grassland community. <i>Oecologia</i> , <b>1991</b> , 85, 314-320	2.9	179
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53	Characteristics of <i>Encelia</i> species differing in leaf reflectance and transpiration rate under common garden conditions. <i>Oecologia</i> , <b>1990</b> , 82, 484-489	2.9	40
52	SEX-RATIO AND REPRODUCTIVE VARIATION IN THE MISTLETOE PHORADENDRON JUNIPERINUM (VISCACEAE). <i>American Journal of Botany</i> , <b>1990</b> , 77, 584-589	2.7	19
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44	Comparative ecophysiology of <i>Encelia farinosa</i> and <i>Encelia frutescens</i> : I. energy balance considerations. <i>Oecologia</i> , <b>1988</b> , 76, 553-561	2.9	24
43	Correlations between carbon isotope ratio and microhabitat in desert plants. <i>Oecologia</i> , <b>1988</b> , 76, 562-566		377
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24	Photosynthesis in Encelia farinosa Gray in Response to Decreasing Leaf Water Potential. <i>Plant Physiology</i> , <b>1984</b> , 75, 688-93	6.6	65
23	Intraspecific competitive effects on water relations, growth and reproduction in Encelia farinosa. <i>Oecologia</i> , <b>1984</b> , 63, 153-158	2.9	79
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21	Field Water Relations of Sonoran Desert Annuals. <i>Ecology</i> , <b>1984</b> , 65, 1436-1444	4.6	45
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18	Ecophysiology of two solar tracking desert winter annuals : III. Gas exchange responses to light, CO and VPD in relation to long-term drought. <i>Oecologia</i> , <b>1983</b> , 57, 344-351	2.9	74
17	Ecophysiology of Amaranthus palmeri, a sonoran desert summer annual. <i>Oecologia</i> , <b>1983</b> , 57, 107-112	2.9	136
16	Ecophysiology of two solar tracking desert winter annuals : IV. Effects of leaf orientation on calculated daily carbon gain and water use efficiency. <i>Oecologia</i> , <b>1983</b> , 58, 10-18	2.9	46
15	THE INFLUENCE OF WATER STRESS AND TEMPERATURE ON LEAF PUBESCENCE DEVELOPMENT IN ENCELIA FARINOSA. <i>American Journal of Botany</i> , <b>1982</b> , 69, 670-675	2.7	63
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13	THE INFLUENCE OF WATER STRESS AND TEMPERATURE ON LEAF PUBESCENCE DEVELOPMENT IN ENCELIA FARINOSA <b>1982</b> , 69, 670		29
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9	Spatial relationships and competition in a Chilean desert cactus. <i>Oecologia</i> , <b>1979</b> , 44, 40-43	2.9	36
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5	Quantum Yields for CO(2) Uptake in C(3) and C(4) Plants: Dependence on Temperature, CO(2), and O(2) Concentration. <i>Plant Physiology</i> , <b>1977</b> , 59, 86-90	6.6	690
4	Forensic Science Applications of Stable Isotope Ratio Analysis		399-422 17
3	Evaluating the Community Land Model (CLM 4.5) at a Coniferous Forest Site in Northwestern United States Using Flux and Carbon-Isotope Measurements		4
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1	Spatial Considerations of Stable Isotope Analyses in Environmental Forensics. <i>Issues in Environmental Science and Technology</i> , 36-53	0.7	13