James Ehleringer

List of Publications by Year in descending order

259 papers	35,422 citations	6613 79 h-index	3650 180 g-index
268 all docs	268 docs citations	268 times ranked	22055 citing authors

#	Article	IF	Citations
1	Heterogeneous isotope effects decouple conifer leaf and branch sugar Î´18O and Î´13C. Oecologia, 2022, 198, 357-370.	2.0	2
2	A multi-city urban atmospheric greenhouse gas measurement data synthesis. Scientific Data, 2022, 9, .	5.3	5
3	Intrinsic water-use efficiency influences establishment in Encelia farinosa. Oecologia, 2022, 199, 563-578.	2.0	1
4	Seasonal and diurnal trends in progressive isotope enrichment along needles in two pine species. Plant, Cell and Environment, 2021, 44, 143-155.	5.7	6
5	Longâ€term nitrogen isotope dynamics in Encelia farinosa reflect plant demographics and climate. New Phytologist, 2021, 232, 1226-1237.	7.3	5
6	Machine learning prediction of mortality in the common desert shrub Encelia farinosa. Ecological Informatics, 2021, 64, 101376.	5.2	1
7	Interactions among intrinsic water-use efficiency and climate influence growth and flowering in a common desert shrub. Oecologia, 2021, 197, 1027-1038.	2.0	7
8	Breath Stable Isotope Analysis Serves as a Non-invasive Analytical Tool to Demonstrate Dietary Changes in Adolescent Students Over Time. Frontiers in Medicine, 2021, 8, 697557.	2.6	0
9	Rapid increases in shrubland and forest intrinsic water-use efficiency during an ongoing megadrought. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	34
10	Recent increases in drought frequency cause observed multi-year drought legacies in the tree rings of semi-arid forests. Oecologia, 2020, 192, 241-259.	2.0	55
11	A predictive spatial model for roasted coffee using oxygen isotopes of Î±â€cellulose. Rapid Communications in Mass Spectrometry, 2020, 34, e8626.	1.5	6
12	Multidecadal records of intrinsic water-use efficiency in the desert shrub Encelia farinosa reveal strong responses to climate change. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18161-18168.	7.1	30
13	Stable isotopes in hair reveal dietary protein sources with links to socioeconomic status and health. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20044-20051.	7.1	14
14	Increased in carbon isotope ratios of Brazilian fingernails are correlated with increased in socioeconomic status. Npj Science of Food, 2020, 4, 9.	5.5	6
15	Distinguishing the region-of-origin of roasted coffee beans with trace element ratios. Food Chemistry, 2020, 320, 126602.	8.2	20
16	Traveling There and Back Again: A Fingernail's Tale. Journal of Forensic Sciences, 2019, 64, 69-76.	1.6	7
17	Resident and Nonresident Fingernail Isotopes Reveal Diet and Travel Patterns,,. Journal of Forensic Sciences, 2019, 64, 77-87.	1.6	9
18	Climate and lawn management interact to control C4plant distribution in residential lawns across seven U.S. cities. Ecological Applications, 2019, 29, e01884.	3.8	8

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19	Strontium isotope ratios of human hair from the United States: Patterns and aberrations. Rapid Communications in Mass Spectrometry, 2019, 33, 461-472.	1.5	15
20	The Utah urban carbon dioxide (UUCON) and Uintah Basin greenhouse gas networks: instrumentation, data, and measurement uncertainty. Earth System Science Data, 2019, 11, 1291-1308.	9.9	15
21	Long-term urban carbon dioxide observations reveal spatial and temporal dynamics related to urban characteristics and growth. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2912-2917.	7.1	120
22	Strontium isotope ratios of human hair record intra-city variations in tap water source. Scientific Reports, 2018, 8, 3334.	3.3	41
23	Evaluation of childhood nutrition by dietary survey and stable isotope analyses of hair and breath. American Journal of Human Biology, 2018, 30, e23103.	1.6	13
24	Detection and variability of combustion-derived vapor in an urban basin. Atmospheric Chemistry and Physics, 2018, 18, 8529-8547.	4.9	21
25	Housing Age and Affluence Influence Plant and Soil Nitrogen and Carbon Cycles in Two Semiarid Cities. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 3178-3192.	3.0	4
26	Strontium isotope ratios (⁸⁷Sr/⁸⁶Sr) of human fingernail clippings reveal multiple location signals. Rapid Communications in Mass Spectrometry, 2018, 32, 1922-1930.	1.5	17
27	Soil carbon and nitrogen accumulation in residential lawns of the Salt Lake Valley, Utah. Oecologia, 2018, 187, 1107-1118.	2.0	22
28	Distinctions in heterotrophic and autotrophic-based metabolism as recorded in the hydrogen and carbon isotope ratios of normal alkanes. Oecologia, 2018, 187, 1053-1075.	2.0	17
29	Disentangling seasonal and interannual legacies from inferred patterns of forest water and carbon cycling using treeâ€ring stable isotopes. Global Change Biology, 2018, 24, 5332-5347.	9.5	52
30	A tale of ENSO, PDO, and increasing aridity impacts on drought-deciduous shrubs in the Death Valley region. Oecologia, 2018, 187, 879-895.	2.0	22
31	Reconstruction of travel history using coupled Î´¹⁸O and ⁸⁷Sr/⁸⁶Sr measurements of hair. Rapid Communications in Mass Spectrometry, 2017, 31, 583-589.	1.5	22
32	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. Water Research, 2017, 119, 212-224.	11.3	39
33	Using radiocarbon to constrain black and organic carbon aerosol sources in Salt Lake City. Journal of Geophysical Research D: Atmospheres, 2017, 122, 9843-9857.	3.3	16
34	Does vapor pressure deficit drive the seasonality of Î´ 13 C of the net landâ€atmosphere CO 2 exchange across the United States?. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 1969-1987.	3.0	3
35	Evaluating the Community Land Model (CLM4.5) at a coniferous forest site in northwestern United States using flux and carbon-isotope measurements. Biogeosciences, 2017, 14, 4315-4340.	3.3	54
36	Canopy-scale biophysical controls of transpiration and evaporation in the Amazon Basin. Hydrology and Earth System Sciences, 2016, 20, 4237-4264.	4.9	62

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37	Spatial patterns and source attribution of urban methane in the Los Angeles Basin. Journal of Geophysical Research D: Atmospheres, 2016, 121, 2490-2507.	3.3	50
38	Urban water â€“ a new frontier in isotope hydrology. Isotopes in Environmental and Health Studies, 2016, 52, 477-486.	1.0	47
39	Urban high-resolution fossil fuel CO2 emissions quantification and exploration of emission drivers for potential policy applications. Urban Ecosystems, 2016, 19, 1013-1039.	2.4	51
40	Forensic Stable Isotope Biogeochemistry. Annual Review of Earth and Planetary Sciences, 2016, 44, 175-206.	11.0	51
41	Mitigation of methane emissions in cities: How new measurements and partnerships can contribute to emissions reduction strategies. Earth's Future, 2016, 4, 408-425.	6.3	51
42	Latitudinal gradients in tree ring stable carbon and oxygen isotopes reveal differential climate influences of the North American Monsoon System. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 1978-1991.	3.0	57
43	Tap water isotope ratios reflect urban water system structure and dynamics across a semiarid metropolitan area. Water Resources Research, 2016, 52, 5891-5910.	4.2	56
44	Convergence in nitrogen deposition and cryptic isotopic variation across urban and agricultural valleys in northern Utah. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2340-2355.	3.0	18
45	The influences of cultivation setting on inflorescence lipid distributions, concentrations, and carbon isotope ratios of Cannabis sp.. Forensic Science International, 2016, 262, 233-241.	2.2	9
46	Riparian plant isotopes reflect anthropogenic nitrogen perturbations: robust patterns across land use gradients. Ecosphere, 2015, 6, 1-16.	2.2	12
47	<scp>iSAW</scp>: Integrating Structure, Actors, and Water to study socioâ€hydroâ€ecological systems. Earth's Future, 2015, 3, 110-132.	6.3	31
48	Isotopic composition of sheep wool records seasonality of climate and diet. Rapid Communications in Mass Spectrometry, 2015, 29, 1357-1369.	1.5	25
49	Design and application of a mobile ground-based observatory for continuous measurements of atmospheric trace gas and criteria pollutant species. Atmospheric Measurement Techniques, 2015, 8, 3481-3492.	3.1	14
50	Radiocarbon-Based Partitioning of Soil Respiration in an Old-Growth Coniferous Forest. Ecosystems, 2015, 18, 459-470.	3.4	15
51	Vapor hydrogen and oxygen isotopes reflect water of combustion in the urban atmosphere. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3247-3252.	7.1	35
52	Sphere of Sustainability: Lessons from the University of Utahâ€™s Global Changes and Society Course. Journal of Water Resources Planning and Management - ASCE, 2015, 141, .	2.6	5
53	Stable isotopes (carbon, nitrogen, sulfur), diet, and anthropometry in urban Colombian women: Investigating socioeconomic differences. American Journal of Human Biology, 2015, 27, 207-218.	1.6	18
54	The potential for application of ink stable isotope analysis in questioned document examination. Science and Justice - Journal of the Forensic Science Society, 2015, 55, 27-33.	2.1	7

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55	Isolation and stable nitrogen isotope analysis of ammonium ions in ammonium nitrate prills using sodium tetraphenylborate. Rapid Communications in Mass Spectrometry, 2014, 28, 1530-1534.	1.5	21
56	Patterns of local and nonlocal water resource use across the western U.S. determined via stable isotope intercomparisons. Water Resources Research, 2014, 50, 8034-8049.	4.2	43
57	Carbon and nitrogen isotope ratios of factory-produced RDX and HMX. Forensic Science International, 2014, 240, 80-87.	2.2	33
58	Deconvolution of isotope signals from bundles of multiple hairs. Oecologia, 2014, 175, 781-789.	2.0	29
59	Observations and sources of carbon and nitrogen isotope ratio variation of pentaerythritol tetranitrate (PETN). Forensic Science International, 2014, 244, 152-157.	2.2	20
60	Isolation of strontium pools and isotope ratios in modern human hair. Analytica Chimica Acta, 2013, 798, 64-73.	5.4	45
61	Assessment of ground-based atmospheric observations for verification of greenhouse gas emissions from an urban region. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8423-8428.	7.1	202
62	Strontium isotopes in tap water from the coterminous USA. Ecosphere, 2012, 3, 1-17.	2.2	40
63	Dietary Heterogeneity among Western Industrialized Countries Reflected in the Stable Isotope Ratios of Human Hair. PLoS ONE, 2012, 7, e34234.	2.5	74
64	Hydrogen and Oxygen Isotope Ratios in Body Water and Hair: Modeling Isotope Dynamics in Nonhuman Primates. American Journal of Primatology, 2012, 74, 651-660.	1.7	31
65	14C analyses quantify time lag between coca leaf harvest and street-level seizure of cocaine. Forensic Science International, 2012, 214, 7-12.	2.2	17
66	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. Journal of Geophysical Research, 2011, 116, .	3.3	9
67	Urban carbon dioxide cycles within the Salt Lake Valley: A multiple-box model validated by observations. Journal of Geophysical Research, 2011, 116, .	3.3	57
68	¹⁴C Calibration Curves for Modern Plant Material from Tropical Regions of South America. Radiocarbon, 2011, 53, 585-594.	1.8	11
69	Spatial distributions of carbon, nitrogen and sulfur isotope ratios in human hair across the central United States. Rapid Communications in Mass Spectrometry, 2011, 25, 861-868.	1.5	81
70	Worldwide stable carbon and nitrogen isotopes of Big MacÂ® patties: An example of a truly â€œglocalâ€• food. Food Chemistry, 2011, 127, 1712-1718.	8.2	33
71	Temporal variation of oxygen isotope ratios (Î´18O) in drinking water: Implications for specifying location of origin with human scalp hair. Forensic Science International, 2011, 208, 156-166.	2.2	62
72	Stable isotope analysis of modern human hair collected from Asia (China, India, Mongolia, and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	2.1	87

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73	Tamarisk biocontrol in the western United States: ecological and societal implications. Frontiers in Ecology and the Environment, 2010, 8, 467-474.	4.0	81
74	Tracing retail cannabis in the United States: Geographic origin and cultivation patterns. International Journal of Drug Policy, 2010, 21, 222-228.	3.3	27
75	Stable isotope models to predict geographic origin and cultivation conditions of marijuana. Science and Justice - Journal of the Forensic Science Society, 2010, 50, 86-93.	2.1	37
76	Links between Purchase Location and Stable Isotope Ratios of Bottled Water, Soda, and Beer in the United States. Journal of Agricultural and Food Chemistry, 2010, 58, 7311-7316.	5.2	41
77	Hydrogen and Oxygen Stable Isotope Ratios of Milk in the United States. Journal of Agricultural and Food Chemistry, 2010, 58, 2358-2363.	5.2	79
78	Dietary and physiological controls on the hydrogen and oxygen isotope ratios of hair from midâ€20th century indigenous populations. American Journal of Physical Anthropology, 2009, 139, 494-504.	2.1	121
79	Stable Isotope Ratios of Marijuana. I. Carbon and Nitrogen Stable Isotopes Describe Growth Conditions*. Journal of Forensic Sciences, 2009, 54, 84-89.	1.6	42
80	The Stable Isotope Ratios of Marijuana. II. Strontium Isotopes Relate to Geographic Origin. Journal of Forensic Sciences, 2009, 54, 1261-1269.	1.6	58
81	Isoscapes to Address Largeâ€Scale Earth Science Challenges. Eos, 2009, 90, 109-110.	0.1	45
82	Understanding the Influences of Spatial Patterns on N Availability Within the Brazilian Amazon Forest. Ecosystems, 2008, 11, 1234-1246.	3.4	69
83	Wood anatomy constrains stomatal responses to atmospheric vapor pressure deficit in irrigated, urban trees. Oecologia, 2008, 156, 13-20.	2.0	101
84	Elevated stream inorganic nitrogen impacts on a dominant riparian tree species: Results from an experimental riparian stream system. Journal of Geophysical Research, 2008, 113, .	3.3	5
85	Variation of Hydrogen, Carbon, Nitrogen, and Oxygen Stable Isotope Ratios in an American Diet: Fast Food Meals. Journal of Agricultural and Food Chemistry, 2008, 56, 4084-4091.	5.2	53
86	Hydrogen and oxygen isotope ratios in human hair are related to geography. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2788-2793.	7.1	322
87	Environmental controls on the carbon isotope composition of ecosystem-respired CO2 in contrasting forest ecosystems in Canada and the USA. Tree Physiology, 2007, 27, 1361-1374.	3.1	29
88	Summer precipitation influences the stable oxygen and carbon isotopic composition of tree-ring cellulose in Pinus ponderosa. Tree Physiology, 2007, 27, 491-501.	3.1	48
89	Effect of gender on sapâ€fluxâ€scaled transpiration in a dominant riparian tree species: Box elder (<i>Acer) Tj ETQq1 1 0.784314 rgB	3.3	18
90	Stable isotope ratios of tap water in the contiguous United States. Water Resources Research, 2007, 43, .	4.2	212

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91	Inferring biogenic and anthropogenic carbon dioxide sources across an urban to rural gradient. Oecologia, 2007, 152, 307-322.	2.0	105
92	High resolution atmospheric monitoring of urban carbon dioxide sources. Geophysical Research Letters, 2006, 33, .	4.0	83
93	Seasonal and interannual variations of carbon and oxygen isotopes of respired CO2in a tallgrass prairie: Measurements and modeling results from 3 years with contrasting water availability. Journal of Geophysical Research, 2006, 111, .	3.3	33
94	Stable isotopes as one of nature's ecological recorders. Trends in Ecology and Evolution, 2006, 21, 408-414.	8.7	409
95	Turnover of stable carbon isotopes in the muscle, liver, and breath CO2 of alpacas (Lama pacos). Rapid Communications in Mass Spectrometry, 2006, 20, 1395-1399.	1.5	90
96	Water extraction times for plant and soil materials used in stable isotope analysis. Rapid Communications in Mass Spectrometry, 2006, 20, 1317-1321.	1.5	451
97	Regional CO2 fluxes inferred from mixing ratio measurements: estimates from flask air samples in central Kansas, USA. Tellus, Series B: Chemical and Physical Meteorology, 2006, 58, 523-536.	1.6	21
98	Contributions of evaporation, isotopic non-steady state transpiration and atmospheric mixing on the delta18O of water vapour in Pacific Northwest coniferous forests. Plant, Cell and Environment, 2006, 29, 77-94.	5.7	136
99	Combining meteorology, eddy fluxes, isotope measurements, and modeling to understand environmental controls of carbon isotope discrimination at the canopy scale. Global Change Biology, 2006, 12, 710-730.	9.5	51
100	The stable carbon and nitrogen isotopic composition of vegetation in tropical forests of the Amazon Basin, Brazil. Biogeochemistry, 2006, 79, 251-274.	3.5	134
101	Geographical patterns of human diet derived from stable-isotope analysis of fingernails. American Journal of Physical Anthropology, 2006, 131, 137-146.	2.1	115
102	Canopy-scale delta13C of photosynthetic and respiratory CO2 fluxes: observations in forest biomes across the United States. Global Change Biology, 2005, 11, 633-643.	9.5	67
103	Treatment methods for the determination ofÎ´2H andÎ´18O of hair keratin by continuous-flow isotope-ratio mass spectrometry. Rapid Communications in Mass Spectrometry, 2005, 19, 2371-2378.	1.5	145
104	Stable hydrogen and oxygen isotope ratios of bottled waters of the world. Rapid Communications in Mass Spectrometry, 2005, 19, 3442-3450.	1.5	96
105	Stable Isotopes as a Tool in Urban Ecology. , 2005, , 199-214.		14
106	ECOHYDROLOGY IN A COLORADO RIVER RIPARIAN FOREST: IMPLICATIONS FOR THE DECLINE OF POPULUS FREMONTII. , 2005, 15, 1009-1018.		58
107	OXYGEN ISOTOPE RATIOS OF WATERS AND RESPIRED CO2IN AMAZONIAN FOREST AND PASTURE ECOSYSTEMS. , 2005, 15, 58-70.		31
108	Carbon and oxygen isotope ratios of tree ring cellulose along a precipitation transect in Oregon, United States. Journal of Geophysical Research, 2005, 110, n/a-n/a.	3.3	50

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109	Isotopic Fractionation of Carbon and Nitrogen During the Illicit Processing of Cocaine and Heroin in South America. Journal of Forensic Sciences, 2005, 50, 1-7.	1.6	30
110	Associations between carbon isotope ratios of ecosystem respiration, water availability and canopy conductance. Global Change Biology, 2004, 10, 1767-1784.	9.5	62
111	Short-term diet changes revealed using stable carbon isotopes in horse tail-hair. Functional Ecology, 2004, 18, 616-624.	3.6	74
112	Canopy Carbon Gain and Water Use: Analysis of Old-growth Conifers in the Pacific Northwest. Ecosystems, 2004, 7, 482.	3.4	37
113	Response of the carbon isotopic content of ecosystem, leaf, and soil respiration to meteorological and physiological driving factors in aPinus ponderosaecosystem. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	4.9	64
114	Estimating photosynthetic13C discrimination in terrestrial CO2exchange from canopy to regional scales. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	4.9	39
115	Estimates of net CO2flux by application of equilibrium boundary layer concepts to CO2and water vapor measurements from a tall tower. Journal of Geophysical Research, 2004, 109, .	3.3	64
116	Carbon isotope discrimination differences within and between contrasting populations of Encelia farinosa raised under common-environment conditions. Oecologia, 2003, 134, 463-470.	2.0	32
117	Temporal variation in ?13C of ecosystem respiration in the Pacific Northwest: links to moisture stress. Oecologia, 2003, 136, 129-136.	2.0	81
118	Isotopic air sampling in a tallgrass prairie to partition net ecosystem CO2exchange. Journal of Geophysical Research, 2003, 108, .	3.3	52
119	Oxygen isotope content of CO2in nocturnal ecosystem respiration: 1. Observations in forests along a precipitation transect in Oregon, USA. Global Biogeochemical Cycles, 2003, 17, n/a-n/a.	4.9	28
120	Oxygen isotope content of CO2in nocturnal ecosystem respiration: 2. Short-term dynamics of foliar and soil component fluxes in an old-growth ponderosa pine forest. Global Biogeochemical Cycles, 2003, 17, n/a-n/a.	4.9	36
121	Seasonal cycle of carbon dioxide and its isotopic composition in an urban atmosphere: Anthropogenic and biogenic effects. Journal of Geophysical Research, 2003, 108, .	3.3	208
122	The application and interpretation of Keeling plots in terrestrial carbon cycle research. Global Biogeochemical Cycles, 2003, 17, .	4.9	536
123	Atmospheric CO2 as a Global Change Driver Influencing Plant-Animal Interactions. Integrative and Comparative Biology, 2002, 42, 424-430.	2.0	69
124	Age-related variations in Â13C of ecosystem respiration across a coniferous forest chronosequence in the Pacific Northwest. Tree Physiology, 2002, 22, 159-167.	3.1	50
125	INTERSPECIFIC COMPETITION AND RESOURCE PULSE UTILIZATION IN A COLD DESERT COMMUNITY. Ecology, 2002, 83, 2602-2616.	3.2	81
126	Heavy and Light Beer:Â A Carbon Isotope Approach To Detect C4Carbon in Beers of Different Origins, Styles, and Prices. Journal of Agricultural and Food Chemistry, 2002, 50, 6413-6418.	5.2	66

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127	Carbon isotope discrimination in forest and pasture ecosystems of the Amazon Basin, Brazil. Global Biogeochemical Cycles, 2002, 16, 56-1-56-10.	4.9	69
128	Deuterium enriched irrigation indicates different forms of rain use in shrub/grass species of the Colorado Plateau. Oecologia, 2002, 130, 345-355.	2.0	151
129	13C content of ecosystem respiration is linked to precipitation and vapor pressure deficit. Oecologia, 2002, 131, 113-124.	2.0	338
130	Predicting daytime carbon isotope ratios of atmospheric CO2 within forest canopies. Functional Ecology, 2002, 16, 49-57.	3.6	68
131	Grass blades as tree rings: environmentally induced changes in the oxygen isotope ratio of cellulose along the length of grass blades. New Phytologist, 2002, 155, 417-424.	7.3	69
132	Stable Isotopes and Carbon Cycle Processes in Forests and Grasslands. Plant Biology, 2002, 4, 181-189.	3.8	59
133	Differential 18O enrichment of leaf cellulose in C3 versus C4 grasses. Functional Plant Biology, 2002, 29, 435.	2.1	114
134	Water use trade-offs and optimal adaptations to pulse-driven arid ecosystems. Journal of Ecology, 2001, 89, 464-480.	4.0	369
135	Title is missing!. Plant and Soil, 2001, 230, 197-209.	3.7	51
136	Title is missing!. Plant and Soil, 2001, 229, 259-270.	3.7	66
137	Tracing the geographical origin of cocaine. Nature, 2000, 408, 311-312.	27.8	162
138	Hydrogen and oxygen isotope ratios of tree ring cellulose for field-grown riparian trees. Oecologia, 2000, 123, 481-489.	2.0	116
139	Commentary: Carbon Metabolism of the Terrestrial Biosphere: A Multitechnique Approach for Improved Understanding. Ecosystems, 2000, 3, 115-130.	3.4	225
140	Welcome to the C4 World. The Paleontological Society Papers, 2000, 6, 273-286.	0.6	4
141	Establishing a grassland signature in veins: 18O in the leaf water of C3 and C4 grasses. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 7894-7898.	7.1	191
142	CARBON ISOTOPE RATIOS IN BELOWGROUND CARBON CYCLE PROCESSES. , 2000, 10, 412-422.		654
143	INTRA- AND INTERSPECIFIC VARIATION FOR SUMMER PRECIPITATION USE IN PINYONâ€“JUNIPER WOODLANDS. Ecological Monographs, 2000, 70, 517-537.	5.4	219
144	A mechanistic model for interpretation of hydrogen and oxygen isotope ratios in tree-ring cellulose. Geochimica Et Cosmochimica Acta, 2000, 64, 21-35.	3.9	666

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145	WATER AND NITROGEN UPTAKE PATTERNS FOLLOWING MOISTURE PULSES IN A COLD DESERT COMMUNITY. Ecology, 2000, 81, 1415-1424.	3.2	157
146	Assessing Ecosystem-Level Water Relations Through Stable Isotope Ratio Analyses. , 2000, , 181-198.		155
147	Water and Nitrogen Uptake Patterns following Moisture Pulses in a Cold Desert Community. Ecology, 2000, 81, 1415.	3.2	8
148	Observations of Hydrogen and Oxygen Isotopes in Leaf Water Confirm the Craig-Gordon Model under Wide-Ranging Environmental Conditions1. Plant Physiology, 1999, 120, 1165-1174.	4.8	225
149	Geo-location of heroin and cocaine by stable isotope ratios. Forensic Science International, 1999, 106, 27-35.	2.2	98
150	Elevated CO 2 and temperature impacts on different components of soil CO 2 efflux in Douglasâ€fir terracosms. Global Change Biology, 1999, 5, 157-168.	9.5	156
151	Hydrogen and oxygen isotope ratios of tree-ring cellulose for riparian trees grown long-term under hydroponically controlled environments. Oecologia, 1999, 121, 467-477.	2.0	130
152	Spatial and temporal variation in the carbon and oxygen stable isotope ratio of respired CO2 in a boreal forest ecosystem. Tellus, Series B: Chemical and Physical Meteorology, 1999, 51, 367-384.	1.6	36
153	Miocene/Pliocene shift: one step or several?. Nature, 1998, 393, 127-127.	27.8	18
154	Intraspecific variation of drought adaptation in brittlebush: leaf pubescence and timing of leaf loss vary with rainfall. Oecologia, 1998, 113, 162-169.	2.0	49
155	Carbon and oxygen isotope ratios of ecosystem respiration along an Oregon conifer transect: preliminary observations based on small-flask sampling. Tree Physiology, 1998, 18, 513-519.	3.1	67
156	Global vegetation change through the Miocene/Pliocene boundary. Nature, 1997, 389, 153-158.	27.8	1,841
157	Leaf carbon isotope discrimination and nitrogen content for riparian trees along elevational transects. Oecologia, 1997, 109, 362-367.	2.0	221
158	Interseasonal comparison of CO 2 concentrations, isotopic composition, and carbon dynamics in an Amazonian rainforest (French Guiana). Oecologia, 1997, 110, 120-131.	2.0	207
159	Carbon isotope composition of boreal plants: functional grouping of life forms. Oecologia, 1997, 110, 301-311.	2.0	212
160	Unusually low carbon isotope ratios in plants from hanging gardens in southern Utah. Oecologia, 1997, 111, 481-489.	2.0	13
161	C 4 photosynthesis, atmospheric CO 2 , and climate. Oecologia, 1997, 112, 285-299.	2.0	1,232
162	Intraspecific variation of leaf pubescence and drought response in Encelia farinosa associated with contrasting desert environments. New Phytologist, 1997, 135, 635-644.	7.3	102

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163	A global analysis of root distributions for terrestrial biomes. Oecologia, 1996, 108, 389-411.	2.0	2,353
164	Rooting depth, water availability, and vegetation cover along an aridity gradient in Patagonia. Oecologia, 1996, 108, 503-511.	2.0	282
165	Carbon isotope discrimination in three semi-arid woodland species along a monsoon gradient. Oecologia, 1996, 106, 455-460.	2.0	65
166	Nitrogen isotope composition of tomato (Lycopersicon esculentum Mill. cv. T-5) grown under ammonium or nitrate nutrition. Plant, Cell and Environment, 1996, 19, 1317-1323.	5.7	200
167	Carbon isotope composition of C4 grasses is influenced by light and water supply. Plant, Cell and Environment, 1996, 19, 392-402.	5.7	142
168	Carbon dioxide concentrations within forest canopies-variation with time, stand structure, and vegetation type. Global Change Biology, 1996, 2, 421-432.	9.5	76
169	Limited uptake of summer precipitation by bigtooth maple (Acer grandidentatum Nutt) and Gambel's oak (Quereus gambelii Nutt). Trees - Structure and Function, 1995, 9, 214.	1.9	87
170	Absorption of ant-provided carbon dioxide and nitrogen by a tropical epiphyte. Nature, 1995, 375, 137-139.	27.8	163
171	Atmospheric CO2 and the ratio of intercellular to ambient CO2 concentrations in plants. Tree Physiology, 1995, 15, 105-111.	3.1	283
172	Potential for selection on plants for waterâ€use efficiency as estimated by carbon isotope discrimination. American Journal of Botany, 1994, 81, 927-935.	1.7	89
173	Carbon isotope discrimination, water-use efficiency, growth, and mortality in a natural shrub population. Oecologia, 1994, 100, 347-354.	2.0	87
174	Integrated nitrogen, carbon, and water relations of a xylem-tapping mistletoe following nitrogen fertilization of the host. Oecologia, 1994, 100, 430-438.	2.0	58
175	Water and nitrogen dynamics in an arid woodland. Oecologia, 1994, 99, 233-242.	2.0	138
176	High levels of genetic variation in populations of four dominant aridland plant species in Arizona. Journal of Arid Environments, 1994, 27, 159-167.	2.4	14
177	Relations of carbon isotope discrimination and other physiological traits to yield in common bean (Phaseolus vulgaris) under rainfed conditions. Journal of Agricultural Science, 1994, 122, 275-284.	1.3	38
178	Potential for Selection on Plants for Water-Use Efficiency as Estimated by Carbon Isotope Discrimination. American Journal of Botany, 1994, 81, 927.	1.7	40
179	Variation in Leaf Movements among Common Bean Cultivars. Crop Science, 1994, 34, 1273-1278.	1.8	9
180	A break in the nitrogen cycle in aridlands? Evidence from ?p15N of soils. Oecologia, 1993, 94, 314-317.	2.0	300

#	Article	IF	Citations
181	Variation in leaf carbon isotope discrimination in Encelia farinosa: implications for growth, competition, and drought survival. Oecologia, 1993, 95, 340-346.	2.0	130
182	Photosynthetic gas exchange and the stable isotope composition of leaf water: comparison of a xylem-tapping mistletoe and its host. Plant, Cell and Environment, 1993, 16, 623-631.	5.7	42
183	Differences in Carbon Isotope Discrimination between Seedlings and Adults of Southwestern Desert Perennial Plants. Southwestern Naturalist, 1993, 38, 212.	0.1	27
184	Vegetation effects on the isotope composition of oxygen in atmospheric CO2. Nature, 1993, 363, 439-443.	27.8	374
185	Evolutionary and Ecological Aspects of Photosynthetic Pathway Variation. Annual Review of Ecology, Evolution, and Systematics, 1993, 24, 411-439.	6.7	662
186	GENDERâ€RELATED DIFFERENCES IN GAS EXCHANGE ARE NOT RELATED TO HOST QUALITY IN THE XYLEMâ€TAPPING MISTLETOE, PHORADENDRON JUNIPERINUM (VISCACEAE). American Journal of Botany, 1993, 80, 641-645.	1.7	31
187	Gender-Related Differences in Gas Exchange are not Related to Host Quality in the Xylem-Tapping Mistleoe, Phoradendron juniperinum (Viscaceae). American Journal of Botany, 1993, 80, 641.	1.7	19
188	Correlating genetic variation in carbon isotopic composition with complex climatic gradients.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 7747-7751.	7.1	123
189	HERITABILITY OF CARBON ISOTOPE DISCRIMINATION IN GUTIERREZIA MICROCEPHALA (ASTERACEAE). American Journal of Botany, 1992, 79, 216-221.	1.7	43
190	Comparisons of carbon isotope discrimination in populations of aridland plant species differing in lifespan. Oecologia, 1992, 91, 332-337.	2.0	55
191	Lack of nitrogen cycling in the Atacama Desert. Nature, 1992, 359, 316-318.	27.8	30
192	On the role of orientation in reducing photoinhibitory damage in photosynthetic-twig desert shrubs. Plant, Cell and Environment, 1992, 15, 301-306.	5.7	44
193	Water uptake by plants: perspectives from stable isotope composition. Plant, Cell and Environment, 1992, 15, 1073-1082.	5.7	844
194	Differential uptake of summer precipitation among co-occurring trees and shrubs in a pinyon-juniper woodland. Plant, Cell and Environment, 1992, 15, 831-836.	5.7	211
195	Paraheliotropic Leaf Movements in Common Bean under Different Soil Nutrient Levels. Crop Science, 1992, 32, 1192-1196.	1.8	8
196	Heritability of Carbon Isotope Discrimination in Gutierrezia microcephala (Asteraceae). American Journal of Botany, 1992, 79, 216.	1.7	19
197	Carbon Isotope Discrimination and Transpiration Efficiency in Common Bean. Crop Science, 1991, 31, 1611-1615.	1.8	60
198	Streamside trees that do not use stream water. Nature, 1991, 350, 335-337.	27.8	705

#	Article	IF	Citations
199	Modification of paraheliotropic leaf movement in Phaseolus vulgaris by photon flux density. Plant, Cell and Environment, 1991, 14, 339-343.	5.7	13
200	Stable oxygen and hydrogen isotope composition of leaf water in C3 and C4 plant species under field conditions. Oecologia, 1991, 88, 394-400.	2.0	83
201	Differential utilization of summer rains by desert plants. Oecologia, 1991, 88, 430-434.	2.0	408
202	Ecophysiological differences among juvenile and reproductive plants of several woody species. Oecologia, 1991, 86, 594-597.	2.0	159
203	Seasonal carbon isotope discrimination in a grassland community. Oecologia, 1991, 85, 314-320.	2.0	206
204	Ecological correlates of seed mass variation in Phoradendron juniperinum, a xylem-tapping mistletoe. Oecologia, 1991, 85, 332-342.	2.0	27
205	Comparison of Modeled and Observed Environmental Influences on the Stable Oxygen and Hydrogen Isotope Composition of Leaf Water in Phaseolus vulgaris L.. Plant Physiology, 1991, 96, 588-596.	4.8	369
206	Water relations of stem succulent trees in north-central Baja California. Oecologia, 1990, 82, 299-303.	2.0	45
207	Carbon isotope ratios are correlated with irradiance levels in the Panamanian orchid Catasetum viridiflavum. Oecologia, 1990, 83, 247-249.	2.0	105
208	Are xylem-tapping mistletoes partially heterotrophic?. Oecologia, 1990, 84, 244-248.	2.0	132
209	Characteristics of Encelia species differing in leaf reflectance and transpiration rate under common garden conditions. Oecologia, 1990, 82, 484-489.	2.0	48
210	SEXâ€RATIO AND REPRODUCTIVE VARIATION IN THE MISTLETOE PHORADENDRON JUNIPERINUM (VISCACEAE). American Journal of Botany, 1990, 77, 584-589.	1.7	20
211	AGE STRUCTURE OF PHORADENDRON JUNIPERINUM (VISCACEAE), A XYLEMâ€TAPPING MISTLETOE: INFERENCES FROM A NONâ€DESTRUCTIVE MORPHOLOGICAL INDEX OF AGE. American Journal of Botany, 1990, 77, 573-583.	1.7	19
212	Correlations between Carbon Isotope Discrimination and Leaf Conductance to Water Vapor in Common Beans. Plant Physiology, 1990, 93, 1422-1425.	4.8	94
213	Carbon Isotope Dicrimination: Potential in Screening Cool-Season Grasses for Water-Limited Environments. Crop Science, 1990, 30, 338.	1.8	123
214	Age Structure of Phoradendron juniperinum (Viscaceae), a Xylem-Tapping Mistletoe: Inferences from a Non-Destructive Morphological Index of Age. American Journal of Botany, 1990, 77, 573.	1.7	5
215	Sex-Ratio and Reproductive Variation in the Mistletoe Phoradendron juniperinum (Viscaceae). American Journal of Botany, 1990, 77, 584.	1.7	8
216	Carbon Isotope Discrimination and Photosynthesis. Annual Review of Plant Biology, 1989, 40, 503-537.	14.3	5,656

#	Article	IF	Citations
217	Seasonal patterns of canopy development and carbon gain in nineteen warm desert shrub species. Oecologia, 1988, 75, 327-335.	2.0	67
218	Comparative ecophysiology of Encelia farinosa and Encelia frutescens. Oecologia, 1988, 76, 553-561.	2.0	30
219	Correlations between carbon isotope ratio and microhabitat in desert plants. Oecologia, 1988, 76, 562-566.	2.0	425
220	CHANGES IN LEAF CHARACTERISTICS OF SPECIES ALONG ELEVATIONAL GRADIENTS IN THE WASATCH FRONT, UTAH. American Journal of Botany, 1988, 75, 680-689.	1.7	60
221	CONTRASTING PHOTOSYNTHETIC BEHAVIOR IN LEAVES AND TWIGS OF HYMENOCLEA SALSOLA, A GREENâ€TWIGGED WARM DESERT SHRUB. American Journal of Botany, 1988, 75, 1360-1370.	1.7	54
222	Changes in Leaf Characteristics of Species Along Elevational Gradients in the Wasatch Front, Utah. American Journal of Botany, 1988, 75, 680.	1.7	19
223	Contrasting Photosynthetic Behavior in Leaves and Twigs of Hymenoclea salsola, a Green-Twigged Warm Desert Shrub. American Journal of Botany, 1988, 75, 1360.	1.7	18
224	LEAF HAIRS IN ENCELIA (ASTERACEAE). American Journal of Botany, 1987, 74, 1532-1540.	1.7	8
225	Leaf-twig carbon isotope ratio differences in photosynthetic-twig desert shrubs. Oecologia, 1987, 71, 318-320.	2.0	54
226	Leaf carbon isotope ratios of plants from a subtropical monsoon forest. Oecologia, 1987, 72, 109-114.	2.0	116
227	Leaf Hairs in Encelia (Asteraceae). American Journal of Botany, 1987, 74, 1532.	1.7	3
228	EFFECT OF NONRANDOM LEAF ORIENTATION ON REPRODUCTION IN LACTUCA SERRIOLA L.. Evolution; International Journal of Organic Evolution, 1986, 40, 1334-1337.	2.3	16
229	Formation of false stems in Cymopterus longiopes: an uplifting example of growth form change. Oecologia, 1986, 69, 466-470.	2.0	2
230	Mistletoes: a hypothesis concerning morphological and chemical avoidance of herbivory. Oecologia, 1986, 70, 234-237.	2.0	60
231	Leaf carbon isotope and mineral composition in subtropical plants along an irradiance cline. Oecologia, 1986, 70, 520-526.	2.0	326
232	Canopy dynamics and carbon gain in response to soil water availability in Encelia frutescens gray, a drought-deciduous shrub. Oecologia, 1986, 68, 271-278.	2.0	47
233	Comparative water use and nitrogen relationships in a mistletoe and its host. Oecologia, 1986, 68, 279-284.	2.0	86
234	Photoperiod and photosynthetic capacity in Lotus scoparius.. Plant, Cell and Environment, 1986, 9, 609-612.	5.7	8

#	Article	IF	Citations
235	MINERAL CONCENTRATIONS IN AN AUTOPARASITIC PHORADENDRON CALIFORNICUM GROWING ON A PARASITIC P. CALIFORNICUM AND ITS HOST, CERCIDIUM FLORIDUM. American Journal of Botany, 1985, 72, 568-571.	1.7	27
236	Annuals and Perennials of warm deserts. , 1985, , 162-180.		62
237	Mineral Concentrations in an Autoparasitic Phoradendron californicum Growing on a Parasitic P. californicum and Its Host, Cercidium floridum. American Journal of Botany, 1985, 72, 568.	1.7	14
238	Photosynthesis in Encelia farinosa Gray in Response to Decreasing Leaf Water Potential. Plant Physiology, 1984, 75, 688-693.	4.8	76
239	Intraspecific competitive effects on water relations, growth and reproduction in Encelia farinosa. Oecologia, 1984, 63, 153-158.	2.0	95
240	Photosynthetic responses to slowly decreasing leaf water potentials in Encelia frutescens. Oecologia, 1984, 61, 241-248.	2.0	59
241	Field Water Relations of Sonoran Desert Annuals. Ecology, 1984, 65, 1436-1444.	3.2	52
242	Characterization of a glabrate Encelia farinosa mutant: morphology, ecophysiology, and field observations. Oecologia, 1983, 57, 303-310.	2.0	23
243	Photosynthesis by flowers in Encelia farinosa and Encelia californica (Asteraceae). Oecologia, 1983, 57, 311-315.	2.0	51
244	Ecophysiology of two solar tracking desert winter annuals. Oecologia, 1983, 57, 344-351.	2.0	91
245	Ecophysiology of Amaranthus palmeri, a sonoran desert summer annual. Oecologia, 1983, 57, 107-112.	2.0	161
246	Ecophysiology of two solar tracking desert winter annuals. Oecologia, 1983, 58, 10-18.	2.0	56
247	THE INFLUENCE OF WATER STRESS AND TEMPERATURE ON LEAF PUBESCENCE DEVELOPMENT IN ENCELIA FARINOSA. American Journal of Botany, 1982, 69, 670-675.	1.7	71
248	Ecophysiology of two solar tracking desert winter annuals. Oecologia, 1982, 54, 41-49.	2.0	64
249	The Influence of Water Stress and Temperature on Leaf Pubescence Development in Encelia Farinosa. American Journal of Botany, 1982, 69, 670.	1.7	35
250	Leaf absorptances of Mohave and Sonoran desert plants. Oecologia, 1981, 49, 366-370.	2.0	180
251	Parallel evolution of leaf pubescence in Encelia in coastal deserts of North and South America. Oecologia, 1981, 49, 38-41.	2.0	44
252	Solar tracking response to drought in a desert annual. Oecologia, 1980, 44, 159-163.	2.0	85

#	Article	IF	Citations
253	Spatial relationships and competition in a Chilean desert cactus. Oecologia, 1979, 44, 40-43.	2.0	42
254	Leaf hairs: Effects on physiological activity and adaptive value to a desert shrub. Oecologia, 1978, 37, 183-200.	2.0	321
255	Implications of quantum yield differences on the distributions of C3 and C4 grasses. Oecologia, 1978, 31, 255-267.	2.0	313
256	The carbon gain benefits of solar tracking in a desert annual. Plant, Cell and Environment, 1978, 1, 307-311.	5.7	66
257	Quantum Yields for CO₂ Uptake in C₃ and C₄ Plants. Plant Physiology, 1977, 59, 86-90.	4.8	774
258	Forensic Science Applications of Stable Isotope Ratio Analysis. , 0, , 399-422.		23
259	Spatial Considerations of Stable Isotope Analyses in Environmental Forensics. Issues in Environmental Science and Technology, 0, , 36-53.	0.4	15