

James Ehleringer

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261
papers

30,084
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170
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268
ext. papers

32,393
ext. citations

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avg, IF

7
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 261 | Carbon Isotope Discrimination and Photosynthesis. <i>Annual Review of Plant Biology</i> , 1989 , 40, 503-537 | | 4637 |
| 260 | A global analysis of root distributions for terrestrial biomes. <i>Oecologia</i> , 1996 , 108, 389-411 | 2.9 | 2017 |
| 259 | Global vegetation change through the Miocene/Pliocene boundary. <i>Nature</i> , 1997 , 389, 153-158 | 50.4 | 1552 |
| 258 | C photosynthesis, atmospheric CO ₂ , and climate. <i>Oecologia</i> , 1997 , 112, 285-299 | 2.9 | 1074 |
| 257 | 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> , 1977 , 59, 86-90 | 6.6 | 690 |
| 256 | Water uptake by plants: perspectives from stable isotope composition. <i>Plant, Cell and Environment</i> , 1992 , 15, 1073-1082 | 8.4 | 683 |
| 255 | Streamside trees that do not use stream water. <i>Nature</i> , 1991 , 350, 335-337 | 50.4 | 589 |
| 254 | A mechanistic model for interpretation of hydrogen and oxygen isotope ratios in tree-ring cellulose. <i>Geochimica Et Cosmochimica Acta</i> , 2000 , 64, 21-35 | 5.5 | 571 |
| 253 | CARBON ISOTOPE RATIOS IN BELOWGROUND CARBON CYCLE PROCESSES 2000 , 10, 412-422 | | 568 |
| 252 | Evolutionary and Ecological Aspects of Photosynthetic Pathway Variation. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 1993 , 24, 411-439 | | 535 |
| 251 | The application and interpretation of Keeling plots in terrestrial carbon cycle research. <i>Global Biogeochemical Cycles</i> , 2003 , 17, | 5.9 | 454 |
| 250 | Correlations between carbon isotope ratio and microhabitat in desert plants. <i>Oecologia</i> , 1988 , 76, 562-566 | | 377 |
| 249 | Water extraction times for plant and soil materials used in stable isotope analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 1317-21 | 2.2 | 374 |
| 248 | Differential utilization of summer rains by desert plants. <i>Oecologia</i> , 1991 , 88, 430-434 | 2.9 | 357 |
| 247 | Vegetation effects on the isotope composition of oxygen in atmospheric CO ₂ . <i>Nature</i> , 1993 , 363, 439-443 | 50.4 | 343 |
| 246 | Stable isotopes as one of nature's ecological recorders. <i>Trends in Ecology and Evolution</i> , 2006 , 21, 408-414 | 10.9 | 342 |
| 245 | Comparison of Modeled and Observed Environmental Influences on the Stable Oxygen and Hydrogen Isotope Composition of Leaf Water in <i>Phaseolus vulgaris</i> L. <i>Plant Physiology</i> , 1991 , 96, 588-96 | 6.6 | 333 |

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| 244 | C content of ecosystem respiration is linked to precipitation and vapor pressure deficit. <i>Oecologia</i> , 2002 , 131, 113-124 | 2.9 | 317 |
| 243 | Leaf carbon isotope and mineral composition in subtropical plants along an irradiance cline. <i>Oecologia</i> , 1986 , 70, 520-526 | 2.9 | 294 |
| 242 | Water use trade-offs and optimal adaptations to pulse-driven arid ecosystems. <i>Journal of Ecology</i> , 2001 , 89, 464-480 | 6 | 291 |
| 241 | 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> , 2008 , 105, 2788-93 | 11.5 | 275 |
| 240 | A break in the nitrogen cycle in aridlands? Evidence from $\delta^{15}N$ of soils. <i>Oecologia</i> , 1993 , 94, 314-317 | 2.9 | 269 |
| 239 | Leaf hairs: Effects on physiological activity and adaptive value to a desert shrub. <i>Oecologia</i> , 1978 , 37, 183-200 | 2.9 | 267 |
| 238 | Implications of quantum yield differences on the distributions of C ₃ and C ₄ grasses. <i>Oecologia</i> , 1978 , 31, 255-267 | 2.9 | 263 |
| 237 | Rooting depth, water availability, and vegetation cover along an aridity gradient in Patagonia. <i>Oecologia</i> , 1996 , 108, 503-511 | 2.9 | 262 |
| 236 | Atmospheric CO ₂ and the ratio of intercellular to ambient CO ₂ concentrations in plants. <i>Tree Physiology</i> , 1995 , 15, 105-11 | 4.2 | 241 |
| 235 | Leaf carbon isotope discrimination and nitrogen content for riparian trees along elevational transects. <i>Oecologia</i> , 1997 , 109, 362-367 | 2.9 | 201 |
| 234 | Observations of hydrogen and oxygen isotopes in leaf water confirm the craig-gordon model under wide-ranging environmental conditions. <i>Plant Physiology</i> , 1999 , 120, 1165-74 | 6.6 | 201 |
| 233 | Differential uptake of summer precipitation among co-occurring trees and shrubs in a pinyon-juniper woodland. <i>Plant, Cell and Environment</i> , 1992 , 15, 831-836 | 8.4 | 194 |
| 232 | Carbon isotope composition of boreal plants: functional grouping of life forms. <i>Oecologia</i> , 1997 , 110, 301-311 | 2.9 | 192 |
| 231 | INTRA- AND INTERSPECIFIC VARIATION FOR SUMMER PRECIPITATION USE IN PINYON-JUNIPER WOODLANDS. <i>Ecological Monographs</i> , 2000 , 70, 517-537 | 9 | 192 |
| 230 | Commentary: Carbon Metabolism of the Terrestrial Biosphere: A Multitechnique Approach for Improved Understanding. <i>Ecosystems</i> , 2000 , 3, 115-130 | 3.9 | 189 |
| 229 | Interseasonal comparison of CO ₂ concentrations, isotopic composition, and carbon dynamics in an Amazonian rainforest (French Guiana). <i>Oecologia</i> , 1997 , 110, 120-131 | 2.9 | 180 |
| 228 | Seasonal carbon isotope discrimination in a grassland community. <i>Oecologia</i> , 1991 , 85, 314-320 | 2.9 | 179 |
| 227 | Seasonal cycle of carbon dioxide and its isotopic composition in an urban atmosphere: Anthropogenic and biogenic effects. <i>Journal of Geophysical Research</i> , 2003 , 108, | | 178 |

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|-----|---|------|-----|
| 226 | 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> , 1996 , 19, 1317-1323 | 8.4 | 176 |
| 225 | 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> , 2012 , 109, 8423-8 | 11.5 | 174 |
| 224 | Stable isotope ratios of tap water in the contiguous United States. <i>Water Resources Research</i> , 2007 , 43, | 5.4 | 172 |
| 223 | Establishing a grassland signature in veins: ^{18}O in the leaf water of C3 and C4 grasses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 7894-8 | 11.5 | 170 |
| 222 | Leaf absorptances of Mohave and Sonoran desert plants. <i>Oecologia</i> , 1981 , 49, 366-370 | 2.9 | 159 |
| 221 | Absorption of ant-provided carbon dioxide and nitrogen by a tropical epiphyte. <i>Nature</i> , 1995 , 375, 137-138 | 10.4 | 150 |
| 220 | Ecophysiological differences among juvenile and reproductive plants of several woody species. <i>Oecologia</i> , 1991 , 86, 594-597 | 2.9 | 144 |
| 219 | Elevated CO_2 and temperature impacts on different components of soil CO_2 efflux in Douglas-fir terracosms. <i>Global Change Biology</i> , 1999 , 5, 157-168 | 11.4 | 142 |
| 218 | Deuterium enriched irrigation indicates different forms of rain use in shrub/grass species of the Colorado Plateau. <i>Oecologia</i> , 2002 , 130, 345-355 | 2.9 | 138 |
| 217 | Ecophysiology of <i>Amaranthus palmeri</i> , a sonoran desert summer annual. <i>Oecologia</i> , 1983 , 57, 107-112 | 2.9 | 136 |
| 216 | Assessing Ecosystem-Level Water Relations Through Stable Isotope Ratio Analyses 2000 , 181-198 | | 132 |
| 215 | Tracing the geographical origin of cocaine. <i>Nature</i> , 2000 , 408, 311-2 | 50.4 | 131 |
| 214 | Treatment methods for the determination of $\delta^2\text{H}$ and $\delta^{18}\text{O}$ of hair keratin by continuous-flow isotope-ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2005 , 19, 2371-8 | 2.2 | 129 |
| 213 | WATER AND NITROGEN UPTAKE PATTERNS FOLLOWING MOISTURE PULSES IN A COLD DESERT COMMUNITY. <i>Ecology</i> , 2000 , 81, 1415-1424 | 4.6 | 129 |
| 212 | Contributions of evaporation, isotopic non-steady state transpiration and atmospheric mixing on the $\delta^{18}\text{O}$ of water vapour in Pacific Northwest coniferous forests. <i>Plant, Cell and Environment</i> , 2006 , 29, 77-94 | 8.4 | 126 |
| 211 | Carbon isotope composition of C4 grasses is influenced by light and water supply. <i>Plant, Cell and Environment</i> , 1996 , 19, 392-402 | 8.4 | 124 |
| 210 | Water and nitrogen dynamics in an arid woodland. <i>Oecologia</i> , 1994 , 99, 233-242 | 2.9 | 123 |
| 209 | The stable carbon and nitrogen isotopic composition of vegetation in tropical forests of the Amazon Basin, Brazil. <i>Biogeochemistry</i> , 2006 , 79, 251-274 | 3.8 | 117 |

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| 208 | Are xylem-tapping mistletoes partially heterotrophic?. <i>Oecologia</i> , 1990 , 84, 244-248 | 2.9 | 114 |
| 207 | Variation in leaf carbon isotope discrimination in <i>Encelia farinosa</i> : implications for growth, competition, and drought survival. <i>Oecologia</i> , 1993 , 95, 340-346 | 2.9 | 113 |
| 206 | Geographical patterns of human diet derived from stable-isotope analysis of fingernails. <i>American Journal of Physical Anthropology</i> , 2006 , 131, 137-46 | 2.5 | 110 |
| 205 | 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> , 2009 , 139, 494-504 | 2.5 | 109 |
| 204 | Hydrogen and oxygen isotope ratios of tree-ring cellulose for riparian trees grown long-term under hydroponically controlled environments. <i>Oecologia</i> , 1999 , 121, 467-477 | 2.9 | 108 |
| 203 | Correlating genetic variation in carbon isotopic composition with complex climatic gradients. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992 , 89, 7747-51 | 11.5 | 108 |
| 202 | Hydrogen and oxygen isotope ratios of tree ring cellulose for field-grown riparian trees. <i>Oecologia</i> , 2000 , 123, 481-489 | 2.9 | 100 |
| 201 | Carbon isotope ratios are correlated with irradiance levels in the Panamanian orchid <i>Catasetum viridiflavum</i> . <i>Oecologia</i> , 1990 , 83, 247-9 | 2.9 | 99 |
| 200 | Differential ¹⁸ O enrichment of leaf cellulose in C3 versus C4 grasses. <i>Functional Plant Biology</i> , 2002 , 29, 435-442 | 2.7 | 97 |
| 199 | Inferring biogenic and anthropogenic carbon dioxide sources across an urban to rural gradient. <i>Oecologia</i> , 2007 , 152, 307-22 | 2.9 | 95 |
| 198 | Leaf carbon isotope ratios of plants from a subtropical monsoon forest. <i>Oecologia</i> , 1987 , 72, 109-114 | 2.9 | 95 |
| 197 | Wood anatomy constrains stomatal responses to atmospheric vapor pressure deficit in irrigated, urban trees. <i>Oecologia</i> , 2008 , 156, 13-20 | 2.9 | 92 |
| 196 | Geo-location of heroin and cocaine by stable isotope ratios. <i>Forensic Science International</i> , 1999 , 106, 27-35 | 2.6 | 88 |
| 195 | Carbon Isotope Discrimination: Potential in Screening Cool-Season Grasses for Water-Limited Environments. <i>Crop Science</i> , 1990 , 30, 338 | 2.4 | 88 |
| 194 | Stable hydrogen and oxygen isotope ratios of bottled waters of the world. <i>Rapid Communications in Mass Spectrometry</i> , 2005 , 19, 3442-50 | 2.2 | 87 |
| 193 | Potential for selection on plants for water-use efficiency as estimated by carbon isotope discrimination. <i>American Journal of Botany</i> , 1994 , 81, 927-935 | 2.7 | 85 |
| 192 | Turnover of stable carbon isotopes in the muscle, liver, and breath CO ₂ of alpacas (<i>Lama pacos</i>). <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 1395-9 | 2.2 | 84 |
| 191 | Carbon isotope discrimination, water-use efficiency, growth, and mortality in a natural shrub population. <i>Oecologia</i> , 1994 , 100, 347-354 | 2.9 | 84 |

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| 190 | Intraspecific variation of leaf pubescence and drought response in <i>Encelia farinosa</i> associated with contrasting desert environments. <i>New Phytologist</i> , 1997 , 135, 635-644 | 9.8 | 83 |
| 189 | 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> , 2018 , 115, 2912-2917 | 11.5 | 80 |
| 188 | Correlations between Carbon Isotope Discrimination and Leaf Conductance to Water Vapor in Common Beans. <i>Plant Physiology</i> , 1990 , 93, 1422-5 | 6.6 | 80 |
| 187 | Intraspecific competitive effects on water relations, growth and reproduction in <i>Encelia farinosa</i> . <i>Oecologia</i> , 1984 , 63, 153-158 | 2.9 | 79 |
| 186 | Temporal variation in delta(13)C of ecosystem respiration in the Pacific Northwest: links to moisture stress. <i>Oecologia</i> , 2003 , 136, 129-36 | 2.9 | 78 |
| 185 | Stable isotope analysis of modern human hair collected from Asia (China, India, Mongolia, and Pakistan). <i>American Journal of Physical Anthropology</i> , 2010 , 141, 440-51 | 2.5 | 77 |
| 184 | Solar tracking response to drought in a desert annual. <i>Oecologia</i> , 1980 , 44, 159-163 | 2.9 | 75 |
| 183 | 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> , 1983 , 57, 344-351 | 2.9 | 74 |
| 182 | INTERSPECIFIC COMPETITION AND RESOURCE PULSE UTILIZATION IN A COLD DESERT COMMUNITY. <i>Ecology</i> , 2002 , 83, 2602-2616 | 4.6 | 73 |
| 181 | Stable oxygen and hydrogen isotope composition of leaf water in C and C plant species under field conditions. <i>Oecologia</i> , 1991 , 88, 394-400 | 2.9 | 73 |
| 180 | Tamarisk biocontrol in the western United States: ecological and societal implications. <i>Frontiers in Ecology and the Environment</i> , 2010 , 8, 467-474 | 5.5 | 72 |
| 179 | Spatial distributions of carbon, nitrogen and sulfur isotope ratios in human hair across the central United States. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 861-8 | 2.2 | 70 |
| 178 | High resolution atmospheric monitoring of urban carbon dioxide sources. <i>Geophysical Research Letters</i> , 2006 , 33, | 4.9 | 70 |
| 177 | Short-term diet changes revealed using stable carbon isotopes in horse tail-hair. <i>Functional Ecology</i> , 2004 , 18, 616-624 | 5.6 | 70 |
| 176 | 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> , 1995 , 9, 214 | 2.6 | 70 |
| 175 | Comparative water use and nitrogen relationships in a mistletoe and its host. <i>Oecologia</i> , 1986 , 68, 279-284 | | 70 |
| 174 | Hydrogen and oxygen stable isotope ratios of milk in the United States. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 2358-63 | 5.7 | 65 |
| 173 | Carbon dioxide concentrations within forest canopies: Variation with time, stand structure, and vegetation type. <i>Global Change Biology</i> , 1996 , 2, 421-432 | 11.4 | 65 |

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| 172 | Photosynthesis in <i>Encelia farinosa</i> Gray in Response to Decreasing Leaf Water Potential. <i>Plant Physiology</i> , 1984 , 75, 688-93 | 6.6 | 65 |
| 171 | Predicting daytime carbon isotope ratios of atmospheric CO ₂ within forest canopies. <i>Functional Ecology</i> , 2002 , 16, 49-57 | 5.6 | 64 |
| 170 | Canopy-scale $\delta^{13}C$ of photosynthetic and respiratory CO ₂ fluxes: observations in forest biomes across the United States. <i>Global Change Biology</i> , 2005 , 11, 633-643 | 11.4 | 64 |
| 169 | THE INFLUENCE OF WATER STRESS AND TEMPERATURE ON LEAF PUBESCENCE DEVELOPMENT IN ENCELIA FARINOSA. <i>American Journal of Botany</i> , 1982 , 69, 670-675 | 2.7 | 63 |
| 168 | Carbon isotope discrimination in forest and pasture ecosystems of the Amazon Basin, Brazil. <i>Global Biogeochemical Cycles</i> , 2002 , 16, 56-1-56-10 | 5.9 | 62 |
| 167 | Dietary heterogeneity among Western industrialized countries reflected in the stable isotope ratios of human hair. <i>PLoS ONE</i> , 2012 , 7, e34234 | 3.7 | 60 |
| 166 | Understanding the Influences of Spatial Patterns on N Availability Within the Brazilian Amazon Forest. <i>Ecosystems</i> , 2008 , 11, 1234-1246 | 3.9 | 59 |
| 165 | Response of the carbon isotopic content of ecosystem, leaf, and soil respiration to meteorological and physiological driving factors in a <i>Pinus ponderosa</i> ecosystem. <i>Global Biogeochemical Cycles</i> , 2004 , 18, n/a-n/a | 5.9 | 59 |
| 164 | Estimates of net CO ₂ flux by application of equilibrium boundary layer concepts to CO ₂ and water vapor measurements from a tall tower. <i>Journal of Geophysical Research</i> , 2004 , 109, | | 59 |
| 163 | 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> , 2002 , 155, 417-424 | 9.8 | 59 |
| 162 | Time-dependent responses of soil CO ₂ efflux components to elevated atmospheric [CO ₂] and temperature in experimental forest mesocosms. <i>Plant and Soil</i> , 2001 , 229, 259-270 | 4.2 | 59 |
| 161 | Carbon and oxygen isotope ratios of ecosystem respiration along an Oregon conifer transect: preliminary observations based on small-flask sampling. <i>Tree Physiology</i> , 1998 , 18, 513-519 | 4.2 | 59 |
| 160 | Carbon isotope discrimination in three semi-arid woodland species along a monsoon gradient. <i>Oecologia</i> , 1996 , 106, 455-460 | 2.9 | 59 |
| 159 | Atmospheric CO ₂ as a Global Change Driver Influencing Plant-Animal Interactions. <i>Integrative and Comparative Biology</i> , 2002 , 42, 424-30 | 2.8 | 58 |
| 158 | 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> , 2002 , 50, 6413-8 | 5.7 | 58 |
| 157 | The carbon gain benefits of solar tracking in a desert annual. <i>Plant, Cell and Environment</i> , 1978 , 1, 307-318 | 11.4 | 58 |
| 156 | Temporal variation of oxygen isotope ratios ($\delta^{18}O$) in drinking water: implications for specifying location of origin with human scalp hair. <i>Forensic Science International</i> , 2011 , 208, 156-66 | 2.6 | 57 |
| 155 | Associations between carbon isotope ratios of ecosystem respiration, water availability and canopy conductance. <i>Global Change Biology</i> , 2004 , 10, 1767-1784 | 11.4 | 56 |

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| 154 | Seasonal patterns of canopy development and carbon gain in nineteen warm desert shrub species. <i>Oecologia</i> , 1988 , 75, 327-335 | 2.9 | 55 |
| 153 | Urban carbon dioxide cycles within the Salt Lake Valley: A multiple-box model validated by observations. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 54 |
| 152 | Comparisons of carbon isotope discrimination in populations of aridland plant species differing in lifespan. <i>Oecologia</i> , 1992 , 91, 332-337 | 2.9 | 54 |
| 151 | Carbon Isotope Discrimination and Transpiration Efficiency in Common Bean. <i>Crop Science</i> , 1991 , 31, 1611-1615 | 2.4 | 54 |
| 150 | ECOHYDROLOGY IN A COLORADO RIVER RIPARIAN FOREST: IMPLICATIONS FOR THE DECLINE OF POPULUS FREMONTII 2005 , 15, 1009-1018 | | 53 |
| 149 | Ecophysiology of two solar tracking desert winter annuals : II. Leaf movements, water relations and microclimate. <i>Oecologia</i> , 1982 , 54, 41-49 | 2.9 | 53 |
| 148 | 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> , 2008 , 56, 4084-91 | 5.7 | 52 |
| 147 | Photosynthetic responses to slowly decreasing leaf water potentials in <i>Encelia frutescens</i> . <i>Oecologia</i> , 1984 , 61, 241-248 | 2.9 | 52 |
| 146 | Stable Isotopes and Carbon Cycle Processes in Forests and Grasslands. <i>Plant Biology</i> , 2002 , 4, 181-189 | 3.7 | 51 |
| 145 | Mistletoes: a hypothesis concerning morphological and chemical avoidance of herbivory. <i>Oecologia</i> , 1986 , 70, 234-237 | 2.9 | 51 |
| 144 | CHANGES IN LEAF CHARACTERISTICS OF SPECIES ALONG ELEVATIONAL GRADIENTS IN THE WASATCH FRONT, UTAH. <i>American Journal of Botany</i> , 1988 , 75, 680-689 | 2.7 | 51 |
| 143 | Age-related variations in delta(13)C of ecosystem respiration across a coniferous forest chronosequence in the Pacific Northwest. <i>Tree Physiology</i> , 2002 , 22, 159-67 | 4.2 | 50 |
| 142 | Integrated nitrogen, carbon, and water relations of a xylem-tapping mistletoe following nitrogen fertilization of the host. <i>Oecologia</i> , 1994 , 100, 430-438 | 2.9 | 50 |
| 141 | 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> , 2016 , 121, 1978-1991 | 3.7 | 48 |
| 140 | CONTRASTING PHOTOSYNTHETIC BEHAVIOR IN LEAVES AND TWIGS OF HYMENOCLEA SALSOLA, A GREEN-TWIGGED WARM DESERT SHRUB. <i>American Journal of Botany</i> , 1988 , 75, 1360-1370 | 2.7 | 48 |
| 139 | The stable isotope ratios of marijuana. II. Strontium isotopes relate to geographic origin. <i>Journal of Forensic Sciences</i> , 2009 , 54, 1261-9 | 1.8 | 47 |
| 138 | Isotopic air sampling in a tallgrass prairie to partition net ecosystem CO2 exchange. <i>Journal of Geophysical Research</i> , 2003 , 108, | | 47 |
| 137 | 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> , 2006 , 12, 710-730 | 11.4 | 46 |

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|-----|--|-----|----|
| 136 | 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> , 1983 , 58, 10-18 | 2.9 | 46 |
| 135 | Canopy dynamics and carbon gain in response to soil water availability in <i>Encelia frutescens</i> gray, a drought-deciduous shrub. <i>Oecologia</i> , 1986 , 68, 271-278 | 2.9 | 45 |
| 134 | Leaf-twig carbon isotope ratio differences in photosynthetic-twig desert shrubs. <i>Oecologia</i> , 1987 , 71, 318-320 | 2.9 | 45 |
| 133 | Field Water Relations of Sonoran Desert Annuals. <i>Ecology</i> , 1984 , 65, 1436-1444 | 4.6 | 45 |
| 132 | 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> , 2017 , 14, 4315-4340 | 4.6 | 44 |
| 131 | Summer precipitation influences the stable oxygen and carbon isotopic composition of tree-ring cellulose in <i>Pinus ponderosa</i> . <i>Tree Physiology</i> , 2007 , 27, 491-501 | 4.2 | 44 |
| 130 | Intraspecific variation of drought adaptation in brittlebush: leaf pubescence and timing of leaf loss vary with rainfall. <i>Oecologia</i> , 1998 , 113, 162-169 | 2.9 | 43 |
| 129 | Photosynthesis by flowers in <i>Encelia farinosa</i> and <i>Encelia californica</i> (Asteraceae). <i>Oecologia</i> , 1983 , 57, 311-315 | 2.9 | 43 |
| 128 | Urban high-resolution fossil fuel CO2 emissions quantification and exploration of emission drivers for potential policy applications. <i>Urban Ecosystems</i> , 2016 , 19, 1013-1039 | 2.8 | 43 |
| 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> , 2001 , 230, 197-209 | 4.2 | 42 |
| 126 | Tap water isotope ratios reflect urban water system structure and dynamics across a semiarid metropolitan area. <i>Water Resources Research</i> , 2016 , 52, 5891-5910 | 5.4 | 41 |
| 125 | Water relations of stem succulent trees in north-central Baja California. <i>Oecologia</i> , 1990 , 82, 299-303 | 2.9 | 41 |
| 124 | Carbon and oxygen isotope ratios of tree ring cellulose along a precipitation transect in Oregon, United States. <i>Journal of Geophysical Research</i> , 2005 , 110, n/a-n/a | | 40 |
| 123 | Characteristics of <i>Encelia</i> species differing in leaf reflectance and transpiration rate under common garden conditions. <i>Oecologia</i> , 1990 , 82, 484-489 | 2.9 | 40 |
| 122 | HERITABILITY OF CARBON ISOTOPE DISCRIMINATION IN GUTIERREZIA MICROCEPHALA (ASTERACEAE). <i>American Journal of Botany</i> , 1992 , 79, 216-221 | 2.7 | 39 |
| 121 | Parallel evolution of leaf pubescence in <i>Encelia</i> in coastal deserts of North and South America. <i>Oecologia</i> , 1981 , 49, 38-41 | 2.9 | 39 |
| 120 | Annuals and Perennials of warm deserts 1985 , 162-180 | | 39 |
| 119 | Forensic Stable Isotope Biogeochemistry. <i>Annual Review of Earth and Planetary Sciences</i> , 2016 , 44, 175-206 | 5.3 | 39 |

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| 118 | Isolation of strontium pools and isotope ratios in modern human hair. <i>Analytica Chimica Acta</i> , 2013 , 798, 64-73 | 6.6 | 38 |
| 117 | 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> , 1993 , 16, 623-631 | 8.4 | 38 |
| 116 | Stable isotope ratios of marijuana. I. Carbon and nitrogen stable isotopes describe growth conditions. <i>Journal of Forensic Sciences</i> , 2009 , 54, 84-9 | 1.8 | 37 |
| 115 | Potential for Selection on Plants for Water-Use Efficiency as Estimated by Carbon Isotope Discrimination. <i>American Journal of Botany</i> , 1994 , 81, 927 | 2.7 | 37 |
| 114 | Spatial patterns and source attribution of urban methane in the Los Angeles Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 2490-2507 | 4.4 | 37 |
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