# Todd E Dawson

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 152 papers | 16,822 citations | 19657 61 h-index | 15732 125 g-index |
| 155 all docs | 155 docs citations | 155 times ranked | 14661 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Stable Isotopes in Plant Ecology. Annual Review of Ecology, Evolution, and Systematics, 2002, 33, 507-559. | 6.7 | 1,532 |
| 2 | Hydraulic lift: consequences of water efflux from the roots of plants. Oecologia, 1998, 113, 151-161. | 2.0 | 836 |
| 3 | Molecular Paleohydrology: Interpreting the Hydrogen-Isotopic Composition of Lipid Biomarkers from Photosynthesizing Organisms. Annual Review of Earth and Planetary Sciences, 2012, 40, 221-249. | 11.0 | 748 |
| 4 | Streamside trees that do not use stream water. Nature, 1991, 350, 335-337. | 27.8 | 705 |
| 5 | Hydraulic lift and water use by plants: implications for water balance, performance and plant-plant interactions. Oecologia, 1993, 95, 565-574. | 2.0 | 676 |
| 6 | Root water uptake and transport: using physiological processes in global predictions. Trends in Plant Science, 2000, 5, 482-488. | 8.8 | 496 |
| 7 | Seasonal water uptake and movement in root systems of Australian phraeatophytic plants of dimorphic root morphology: a stable isotope investigation. Oecologia, 1996, 107, 13-20. | 2.0 | 423 |
| 8 | Nighttime transpiration in woody plants from contrasting ecosystems. Tree Physiology, 2007, 27, 561-575. | 3.1 | 384 |
| 9 | Determining water use by trees and forests from isotopic, energy balance and transpiration analyses: the roles of tree size and hydraulic lift. Tree Physiology, 1996, 16, 263-272. | 3.1 | 348 |
| 10 | Why are non-photosynthetic tissues generally 13C enriched compared with leaves in C3 plants? Review and synthesis of current hypotheses. Functional Plant Biology, 2009, 36, 199. | 2.1 | 348 |
| 11 | Gender-Specific Physiology, Carbon Isotope Discrimination, and Habitat Distribution in Boxelder, Acer Negundo. Ecology, 1993, 74, 798-815. | 3.2 | 334 |
| 12 | Modeling Root Water Uptake in Hydrological and Climate Models. Bulletin of the American Meteorological Society, 2001, 82, 2797-2809. | 3.3 | 330 |
| 13 | Hydraulic redistribution in three Amazonian trees. Oecologia, 2005, 145, 354-363. | 2.0 | 290 |
| 14 | Root functioning modifies seasonal climate. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 17576-17581. | 7.1 | 279 |
| 15 | Foliar water uptake: a common water acquisition strategy for plants of the redwood forest. Oecologia, 2009, 161, 449-459. | 2.0 | 261 |
| 16 | Predicting plant vulnerability to drought in biodiverse regions using functional traits. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5744-5749. | 7.1 | 261 |
| 17 | Hydrologic refugia, plants, and climate change. Global Change Biology, 2017, 23, 2941-2961. | 9.5 | 257 |
| 18 | Plant height and hydraulic vulnerability to drought and cold. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7551-7556. | 7.1 | 254 |

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|---|---|---|---|
| 19 | Climatic context and ecological implications of summer fog decline in the coast redwood region. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4533-4538. | 7.1 | 228 |
| 20 | Isotopes reveal contrasting water use strategies among coexisting plant species in a Mediterranean ecosystem. New Phytologist, 2012, 196, 489-496. | 7.3 | 226 |
| 21 | Isotopic enrichment of water in the â€œwoodyâ€•tissues of plants: Implications for plant water source, water uptake, and other studies which use the stable isotopic composition of cellulose. Geochimica Et Cosmochimica Acta, 1993, 57, 3487-3492. | 3.9 | 216 |
| 22 | Dark and disturbed: a new image of early angiosperm ecology. Paleobiology, 2004, 30, 82-107. | 2.0 | 215 |
| 23 | Seasonal carbon isotope discrimination in a grassland community. Oecologia, 1991, 85, 314-320. | 2.0 | 206 |
| 24 | What the towers don't see at night: nocturnal sap flow in trees and shrubs at two AmeriFlux sites in California. Tree Physiology, 2007, 27, 597-610. | 3.1 | 204 |
| 25 | Stable isotopes reveal linkages among ecohydrological processes in a seasonally dry tropical montane cloud forest. Ecohydrology, 2012, 5, 779-790. | 2.4 | 193 |
| 26 | Discrepancies between isotope ratio infrared spectroscopy and isotope ratio mass spectrometry for the stable isotope analysis of plant and soil waters. Rapid Communications in Mass Spectrometry, 2010, 24, 1948-1954. | 1.5 | 184 |
| 27 | Identification and characterization of QTL underlying whole-plant physiology in Arabidopsis thaliana: delta13C, stomatal conductance and transpiration efficiency. Plant, Cell and Environment, 2005, 28, 697-708. | 5.7 | 162 |
| 28 | The value of wet leaves. New Phytologist, 2018, 219, 1156-1169. | 7.3 | 162 |
| 29 | Fog interception by Sequoia sempervirens (D. Don) crowns decouples physiology from soil water deficit. Plant, Cell and Environment, 2009, 32, 882-892. | 5.7 | 160 |
| 30 | The incidence and implications of clouds for cloud forest plant water relations. Ecology Letters, 2013, 16, 307-314. | 6.4 | 157 |
| 31 | Assessing Ecosystem-Level Water Relations Through Stable Isotope Ratio Analyses. , 2000, , 181-198. | | 155 |
| 32 | Warming combined with more extreme precipitation regimes modifies the water sources used by trees. New Phytologist, 2017, 213, 584-596. | 7.3 | 153 |
| 33 | Genetic variation in stomatal and biochemical limitations to photosynthesis in the annual plant, Polygonum arenastrum. Oecologia, 1997, 109, 535-546. | 2.0 | 150 |
| 34 | Genetic variation in and covariation between leaf gas exchange, morphology, and development in Polygonum arenastrum, an annual plant. Oecologia, 1990, 85, 153-158. | 2.0 | 149 |
| 35 | Hydraulic lift and its influence on the water content of the rhizosphere: an example from sugar maple, Acer saccharum. Oecologia, 1996, 108, 273-278. | 2.0 | 134 |
| 36 | Drought and resprouting plants. New Phytologist, 2015, 206, 583-589. | 7.3 | 133 |

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|---|---|---|---|
| 37 | Carpels as leaves: meeting the carbon cost of reproduction in an alpine buttercup. Oecologia, 1993, 95, 187-193. | 2.0 | 132 |
| 38 | Reviews and syntheses: on the roles trees play in building and plumbing the critical zone. Biogeosciences, 2017, 14, 5115-5142. | 3.3 | 130 |
| 39 | Oxygen isotope fractionation effects in soil water via interaction with cations (Mg, Ca, K, Na) adsorbed to phyllosilicate clay minerals. Journal of Hydrology, 2014, 515, 1-9. | 5.4 | 128 |
| 40 | Isotopeâ€ratio infrared spectroscopy: a reliable tool for the investigation of plantâ€water sources?. New Phytologist, 2015, 207, 914-927. | 7.3 | 120 |
| 41 | Low Vulnerability to Xylem Embolism in Leaves and Stems of North American Oaks. Plant Physiology, 2018, 177, 1066-1077. | 4.8 | 117 |
| 42 | Ideas and perspectives: Tracing terrestrial ecosystem water fluxes using hydrogen and oxygen stable isotopes â€“ challenges and opportunities from an interdisciplinary perspective. Biogeosciences, 2018, 15, 6399-6415. | 3.3 | 115 |
| 43 | Community assembly and functional diversity along succession postâ€management. Functional Ecology, 2014, 28, 1256-1265. | 3.6 | 107 |
| 44 | A dynamic leaf gasâ€exchange strategy is conserved in woody plants under changing ambient CO<sub>2</sub>: evidence from carbon isotope discrimination in paleo and CO<sub>2</sub> enrichment studies. Global Change Biology, 2016, 22, 889-902. | 9.5 | 106 |
| 45 | Foggy days and dry nights determine crownâ€level water balance in a seasonal tropical montane cloud forest. Plant, Cell and Environment, 2014, 37, 261-272. | 5.7 | 102 |
| 46 | Influence of Tree Species on Forest Nitrogen Retention in the Catskill Mountains, New York, USA. Ecosystems, 2005, 8, 1-16. | 3.4 | 101 |
| 47 | Lithologically Controlled Subsurface Critical Zone Thickness and Water Storage Capacity Determine Regional Plant Community Composition. Water Resources Research, 2019, 55, 3028-3055. | 4.2 | 97 |
| 48 | Correlated variation of floral and leaf traits along a moisture availability gradient. Oecologia, 2007, 151, 574-583. | 2.0 | 93 |
| 49 | Fog Water and Ecosystem Function: Heterogeneity in a California Redwood Forest. Ecosystems, 2009, 12, 417-433. | 3.4 | 86 |
| 50 | Climate and soils together regulate photosynthetic carbon isotope discrimination within C<sub>3</sub> plants worldwide. Global Ecology and Biogeography, 2018, 27, 1056-1067. | 5.8 | 85 |
| 51 | Dynamic, structured heterogeneity of water isotopes inside hillslopes. Water Resources Research, 2016, 52, 164-189. | 4.2 | 83 |
| 52 | Life in the treetops: ecophysiological strategies of canopy epiphytes in a tropical montane cloud forest. Ecological Monographs, 2015, 85, 393-412. | 5.4 | 81 |
| 53 | The role of dew in Negev Desert plants. Oecologia, 2015, 178, 317-327. | 2.0 | 78 |
| 54 | Water transfer via ectomycorrhizal fungal hyphae to conifer seedlings. Mycorrhiza, 2007, 17, 439-447. | 2.8 | 75 |

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|---|---|---|---|
| 55 | QUANTITATIVE TRAIT LOCI AFFECTING ?13C AND RESPONSE TO DIFFERENTIAL WATER AVAILIBILITY IN ARABIDOPSIS THALLANA. Evolution; International Journal of Organic Evolution, 2005, 59, 81-96. | 2.3 | 70 |
| 56 | Using branch and basal trunk sap flow measurements to estimate whole-plant water capacitance: a caution. Plant and Soil, 2008, 305, 5-13. | 3.7 | 70 |
| 57 | Seasonality of hydraulic redistribution by trees to grasses and changes in their waterâ€source use that change treeâ€“grass interactions. Ecohydrology, 2016, 9, 218-228. | 2.4 | 70 |
| 58 | INBREEDING DEPRESSION IN MORPHOLOGICAL AND PHYSIOLOGICAL TRAITS OF SCHIEDEA LYDGATEI (CARYOPHYLLACEAE) IN TWO ENVIRONMENTS. Evolution; International Journal of Organic Evolution, 1995, 49, 297-306. | 2.3 | 69 |
| 59 | Evidence for direct water absorption by the shoot of the desiccation-tolerant plant Vellozia flavicans in the savannas of central Brazil. Journal of Tropical Ecology, 2005, 21, 585-588. | 1.1 | 69 |
| 60 | Carbon stable isotopes suggest that hippopotamusâ€vectored nutrients subsidize aquatic consumers in an East African river. Ecosphere, 2015, 6, 1-11. | 2.2 | 67 |
| 61 | Effects of height on treetop transpiration and stomatal conductance in coast redwood (Sequoia) Tj ETQq1 1 0.784314 rgBT /Overloc | 3.1 | 66 |
| 62 | Polystichum munitum (Dryopteridaceae) varies geographically in its capacity to absorb fog water by foliar uptake within the redwood forest ecosystem. American Journal of Botany, 2010, 97, 1121-1128. | 1.7 | 65 |
| 63 | Digging deeper: what the critical zone perspective adds to the study of plant ecophysiology. New Phytologist, 2020, 226, 666-671. | 7.3 | 61 |
| 64 | 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 |
| 65 | Increasing leaf hydraulic conductance with transpiration rate minimizes the water potential drawdown from stem to leaf. Journal of Experimental Botany, 2015, 66, 1303-1315. | 4.8 | 58 |
| 66 | Using septum-capped vials with continuous-flow isotope ratio mass spectrometric analysis of atmospheric CO2 for Keeling plot applications. Rapid Communications in Mass Spectrometry, 2001, 15, 952-956. | 1.5 | 57 |
| 67 | Species differences in the seasonality of evergreen tree transpiration in a Mediterranean climate: Analysis of multiyear, halfâ€hourly sap flow observations. Water Resources Research, 2014, 50, 1869-1894. | 4.2 | 57 |
| 68 | Depth of water acquisition by invading shrubs and resident herbs in a Sierra Nevada meadow. Plant and Soil, 2006, 285, 31-43. | 3.7 | 56 |
| 69 | Hydraulic conductance and the maintenance of water balance in flowers. Plant, Cell and Environment, 2016, 39, 2123-2132. | 5.7 | 56 |
| 70 | WATER SOURCES USED BYDIDYMOPANAX PITTIERIAT DIFFERENT LIFE STAGES IN A TROPICAL CLOUD FOREST. Ecology, 1998, 79, 1448-1452. | 3.2 | 53 |
| 71 | Estimating water use by sugar maple trees: considerations when using heat-pulse methods in trees with deep functional sapwood. Tree Physiology, 2000, 20, 217-227. | 3.1 | 53 |
| 72 | No local adaptation in leaf or stem xylem vulnerability to embolism, but consistent vulnerability segmentation in a North American oak. New Phytologist, 2019, 223, 1296-1306. | 7.3 | 52 |

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|---|---|---|---|
| 73 | Plants, Isotopes and Water Use: A Catchment-Scale Perspective. , 1998, , 165-202. | | 51 |
| 74 | Hydraulic conductance of leaves correlates with leaf lifespan: implications for lifetime carbon gain. New Phytologist, 2012, 193, 939-947. | 7.3 | 51 |
| 75 | Dry and hot: the hydraulic consequences of a climate changeâ€“type drought for Amazonian trees. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20180209. | 4.0 | 49 |
| 76 | Plant and rootâ€zone water isotopes are difficult to measure, explain, and predict: Some practical recommendations for determining plant water sources. Methods in Ecology and Evolution, 2020, 11, 1352-1367. | 5.2 | 48 |
| 77 | Beyond isohydricity: The role of environmental variability in determining plant drought responses. Plant, Cell and Environment, 2019, 42, 1104-1111. | 5.7 | 47 |
| 78 | Water sources and controls on waterâ€loss rates of epigeous ectomycorrhizal fungal sporocarps during summer drought. New Phytologist, 2009, 182, 483-494. | 7.3 | 45 |
| 79 | The influence of species and growing conditions on the 18â€O enrichment of leaf water and its impact on â€˜effective path lengthâ€™. New Phytologist, 2009, 184, 619-630. | 7.3 | 45 |
| 80 | Isoscapes to Address Largeâ€Scale Earth Science Challenges. Eos, 2009, 90, 109-110. | 0.1 | 45 |
| 81 | Effects of the hippopotamus on the chemistry and ecology of a changing watershed. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5028-E5037. | 7.1 | 45 |
| 82 | Are temporal variations of leaf traits responsible for seasonal and interâ€annual variability in ecosystem CO<sub>2</sub> exchange?. Functional Ecology, 2011, 25, 258-270. | 3.6 | 43 |
| 83 | Predicting the limits to tree height using statistical regressions of leaf traits. New Phytologist, 2007, 174, 626-636. | 7.3 | 42 |
| 84 | Vegetation induced changes in the stable isotope composition of near surface humidity. Ecohydrology, 2014, 7, 936-949. | 2.4 | 42 |
| 85 | Convergent evolution of tree hydraulic traits in Amazonian habitats: implications for community assemblage and vulnerability to drought. New Phytologist, 2020, 228, 106-120. | 7.3 | 42 |
| 86 | Evolutionary relationships between drought-related traits and climate shape large hydraulic safety margins in western North American oaks. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 41 |
| 87 | Contrasting drought-response strategies in California redwoods. Tree Physiology, 2015, 35, 453-469. | 3.1 | 40 |
| 88 | Nighttime transpiration in a seasonally dry tropical montane cloud forest environment. Trees - Structure and Function, 2015, 29, 259-274. | 1.9 | 39 |
| 89 | Water relations of Calycanthus flowers: Hydraulic conductance, capacitance, and embolism resistance. Plant, Cell and Environment, 2018, 41, 2250-2262. | 5.7 | 39 |
| 90 | Historical changes in the stomatal limitation of photosynthesis: empirical support for an optimality principle. New Phytologist, 2020, 225, 2484-2497. | 7.3 | 39 |

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|---|---|---|---|
| 91 | Uncorrelated evolution of leaf and petal venation patterns across the angiosperm phylogeny. Journal of Experimental Botany, 2013, 64, 4081-4088. | 4.8 | 38 |
| 92 | The ecohydrological context of drought and classification of plant responses. Ecology Letters, 2018, 21, 1723-1736. | 6.4 | 38 |
| 93 | Isotopic Incorporation Rates and Discrimination Factors in Mantis Shrimp Crustaceans. PLoS ONE, 2015, 10, e0122334. | 2.5 | 37 |
| 94 | Savanna soil fertility limits growth but not survival of tropical forest tree seedlings. Plant and Soil, 2011, 349, 341-353. | 3.7 | 36 |
| 95 | Coffee and shade trees show complementary use of soil water in a traditional agroforestry ecosystem. Hydrology and Earth System Sciences, 2020, 24, 1649-1668. | 4.9 | 36 |
| 96 | The Widened Pipe Model of plant hydraulic evolution. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 36 |
| 97 | Reconciling seasonal hydraulic risk and plant water use through probabilistic soilâ€“plant dynamics. Global Change Biology, 2017, 23, 3758-3769. | 9.5 | 35 |
| 98 | Weather underground: Subsurface hydrologic processes mediate tree vulnerability to extreme climatic drought. Global Change Biology, 2020, 26, 3091-3107. | 9.5 | 35 |
| 99 | The Roles of Stable Isotopes in Forest Hydrology and Biogeochemistry. Ecological Studies, 2011, , 137-161. | 1.2 | 34 |
| 100 | Fog as a source of nitrogen for redwood trees: evidence from fluxes and stable isotopes. Journal of Ecology, 2015, 103, 1397-1407. | 4.0 | 33 |
| 101 | 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 |
| 102 | Seasonal trends in photosynthesis and electron transport during the Mediterranean summer drought in leaves of deciduous oaks. Tree Physiology, 2015, 35, 485-500. | 3.1 | 31 |
| 103 | Medium, Vector, and Connector: Fog and the Maintenance of Ecosystems. Ecosystems, 2020, 23, 217-229. | 3.4 | 30 |
| 104 | Morphological and dietary responses of chipmunks to a century of climate change. Global Change Biology, 2016, 22, 3233-3252. | 9.5 | 29 |
| 105 | Changes in tree drought sensitivity provided early warning signals to the California drought and forest mortality event. Global Change Biology, 2022, 28, 1119-1132. | 9.5 | 29 |
| 106 | Representing plant diversity in land models: An evolutionary approach to make â€œFunctional Typesâ€• more functional. Global Change Biology, 2022, 28, 2541-2554. | 9.5 | 28 |
| 107 | Ecological correlates of seed mass variation in Phoradendron juniperinum, a xylem-tapping mistletoe. Oecologia, 1991, 85, 332-342. | 2.0 | 27 |
| 108 | Hydraulic constraints modify optimal photosynthetic profiles in giant sequoia trees. Oecologia, 2016, 182, 713-730. | 2.0 | 27 |

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|---|---|---|---|
| 109 | Specialized morphology corresponds to a generalist diet: linking form and function in smashing mantis shrimp crustaceans. Oecologia, 2016, 182, 429-442. | 2.0 | 27 |
| 110 | Controls on the distribution and resilience of Quercus garryana : ecophysiological evidence of oak's waterâ€limitation tolerance. Ecosphere, 2018, 9, e02218. | 2.2 | 25 |
| 111 | Variation in the resilience of cloud forest vascular epiphytes to severe drought. New Phytologist, 2018, 219, 900-913. | 7.3 | 23 |
| 112 | Axial variation of xylem conduits in the Earthâ€™s tallest trees. Trees - Structure and Function, 2019, 33, 1299-1311. | 1.9 | 23 |
| 113 | Prolonged warming and drought modify belowground interactions for water among coexisting plants. Tree Physiology, 2019, 39, 55-63. | 3.1 | 23 |
| 114 | Gender-specific variation in physiology in the dioecious shrub Corema album throughout its distributional range. Functional Plant Biology, 2012, 39, 968. | 2.1 | 21 |
| 115 | Reduced dry season transpiration is coupled with shallow soil water use in tropical montane forest trees. Oecologia, 2018, 188, 303-317. | 2.0 | 21 |
| 116 | Diverse effects of the common hippopotamus on plant communities and soil chemistry. Oecologia, 2018, 188, 821-835. | 2.0 | 21 |
| 117 | SEXâ€RATIO AND REPRODUCTIVE VARIATION IN THE MISTLETOE PHORADENDRON JUNIPERINUM (VISCACEAE). American Journal of Botany, 1990, 77, 584-589. | 1.7 | 20 |
| 118 | Plants as sensors: vegetation response to rainfall predicts root-zone water storage capacity in Mediterranean-type climates. Environmental Research Letters, 2020, 15, 104074. | 5.2 | 20 |
| 119 | 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 |
| 120 | Water relations and microclimate around the upper limit of a cloud forest in Maui, Hawai'i. Tree Physiology, 2014, 34, 766-777. | 3.1 | 19 |
| 121 | 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 |
| 122 | Early, intensive marine resource exploitation by Middle Stone Age humans at Ysterfontein 1 rockshelter, South Africa. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 18 |
| 123 | Functional differences between woodland savannas and seasonally dry forests from south-eastern Brazil: Evidence from 15N natural abundance studies. Austral Ecology, 2011, 36, 974-982. | 1.5 | 17 |
| 124 | Species-Specific Shifts in Diurnal Sap Velocity Dynamics and Hysteretic Behavior of Ecophysiological Variables During the 2015â€“2016 El NiÃ±o Event in the Amazon Forest. Frontiers in Plant Science, 2019, 10, 830. | 3.6 | 17 |
| 125 | Coping with gravity: the foliar water relations of giant sequoia. Tree Physiology, 2017, 37, 1312-1326. | 3.1 | 16 |
| 126 | Interspecific Differences in Seed Germination, Establishment, and Early Growth in Relation to Preferred Soil Type in an Alpine Community. Arctic, Antarctic, and Alpine Research, 2007, 39, 165-176. | 1.1 | 15 |

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|---|---|---|---|
| 127 | Acorns, insects, and the diet of adult versus nestling Acorn Woodpeckers. Journal of Field Ornithology, 2008, 79, 280-285. | 0.5 | 14 |
| 128 | Does sexual dimorphism predispose dioecious riparian trees to sex ratio imbalances under climate change?. Oecologia, 2018, 187, 921-931. | 2.0 | 14 |
| 129 | Vascular epiphytes show low physiological resistance and high recovery capacity to episodic, shortâ€term drought in Monteverde, Costa Rica. Functional Ecology, 2020, 34, 1537-1550. | 3.6 | 13 |
| 130 | Tree-ring isotopes adjacent to Lake Superior reveal cold winter anomalies for the Great Lakes region of North America. Scientific Reports, 2019, 9, 4412. | 3.3 | 12 |
| 131 | Plant hydraulic traits reveal islands as refugia from worsening drought. , 2020, 8, coz115. | | 12 |
| 132 | Stable isotopes of Hawaiian spiders reflect substrate properties along a chronosequence. PeerJ, 2018, 6, e4527. | 2.0 | 11 |
| 133 | Millennial-scale tree-ring isotope chronologies from coast redwoods provide insights on controls over California hydroclimate variability. Oecologia, 2018, 187, 897-909. | 2.0 | 10 |
| 134 | The role of macropores in the cultivation of bell pepper in salinized soil. Plant and Soil, 1996, 181, 241-249. | 3.7 | 9 |
| 135 | A New Engagement Model to Complete and Operate the National Ecological Observatory Network. Bulletin of the Ecological Society of America, 2016, 97, 283-287. | 0.2 | 9 |
| 136 | Critical transition to woody plant dominance through microclimate feedbacks in North American coastal ecosystems. Ecology, 2020, 101, e03107. | 3.2 | 9 |
| 137 | The dynamics of stem water storage in the tops of Earthâ€™s largest treesâ€”Sequoiadendron giganteum. Tree Physiology, 2021, 41, 2262-2278. | 3.1 | 8 |
| 138 | Sex-Ratio and Reproductive Variation in the Mistletoe Phoradendron juniperinum (Viscaceae). American Journal of Botany, 1990, 77, 584. | 1.7 | 8 |
| 139 | The generalizability of waterâ€deficit on bacterial community composition; Siteâ€specific waterâ€availability predicts the bacterial community associated with coast redwood roots. Molecular Ecology, 2020, 29, 4721-4734. | 3.9 | 7 |
| 140 | Slopeâ€Aspect Induced Climate Differences Influence How Water Is Exchanged Between the Land and Atmosphere. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006027. | 3.0 | 7 |
| 141 | Keep your friends close: Host compartmentalisation of microbial communities facilitates decoupling from effects of habitat fragmentation. Ecology Letters, 2021, 24, 2674-2686. | 6.4 | 7 |
| 142 | Revisiting plant hydrological niches: The importance of atmospheric resources for groundâ€rooted plants. Journal of Ecology, 2022, 110, 1746-1756. | 4.0 | 7 |
| 143 | Plant physiological ecology: linking the organism to scales above and below. New Phytologist, 2001, 149, 12-16. | 7.3 | 6 |
| 144 | Dew water-uptake pathways in Negev desert plants: a study using stable isotope tracers. Oecologia, 2021, 196, 353-361. | 2.0 | 5 |

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|---|---|---|---|
| 145 | 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 |
| 146 | Using oxygen and hydrogen stable isotopes to track the migratory movement of Sharp-shinned Hawks (Accipiter striatus) along Western Flyways of North America. PLoS ONE, 2020, 15, e0226318. | 2.5 | 4 |
| 147 | Variation in cloud immersion, not precipitation, drives leaf trait plasticity and water relations in vascular epiphytes during an extreme drought. American Journal of Botany, 2022, 109, 550-563. | 1.7 | 3 |
| 148 | Illuminating next steps for NEON. Science, 2015, 349, 1176-1177. | 12.6 | 1 |
| 149 | Reply to Klein: Ysterfontein 1 shell midden (South Africa) and the antiquity of coastal adaptation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2108794118. | 7.1 | 1 |
| 150 | Hydraulic lift and water use by plants: implications for water balance, performance and plant-plant interactions. , 1993, 95, 565. | | 1 |
| 151 | Data wanted on phenology. Journal of Tropical Ecology, 1989, 5, 238-238. | 1.1 | 0 |
| 152 | Preface: Honoring the career of Professor James R. Ehleringer. Oecologia, 2018, 187, 875-878. | 2.0 | 0 |