

Todd E. Dawson list of publications (as of May 2023)

- 281.** Hermes, A., M. Logan, B. Poulin, A. McKenna, **T.E. Dawson**, T. Borch and E-L.Hinckley. Agricultural sulfur applications alter the quantity and composition of dissolved organic matter from field-to-watershed scales. *Environmental Science & Technology* (accepted – in revision).
- 280.** Andreozzi, C., J. Kitzes, **T.E. Dawson** and A. Mererlender. Testing climate refugia for bat species of concern across a working forest landscape. *Conservation Biology* (in press).
- 279.** Wilkening, J., R. Skelton, X. Feng, **T.E. Dawson** and S.A. Thompson. Exploring within-plant hydraulic trait variation: A test of the Vulnerability Segmentation Hypothesis. *Plant, Cell & Environment* (accepted – in revision).
- 278.** Roddy, A., M. Williams, P. Fine, S. Mambelli, **T.E. Dawson**, and K. Simonin. Flowers are leakier than leaves but cheaper to build. *New Phytologist* (in press.)
- 277.** Farahani, A., M.J. Miller, B.W. Porter and **T.E. Dawson**. Stable isotopes of archaeological and modern semi-terrestrial crabs (*Potamon potamios*) provide palaeoecological insights into brachyuran ecology and human resource acquisition in late Holocene Jordan. *Quaternary International* (in press).
- 276.** McFarlane, K.S., S. Mambelli, R.C. Porras, D.B. Wiedemeier, L. Murphy, K. Orans, **T.E. Dawson**, and M.S. Torn. Soil carbon stocks are not linked to aboveground litter input and chemistry in old-growth coast redwood forest and adjacent prairie. *RadioCarbon* (accepted – in revision).
- 275.** Skelton, R.P., A.G. West, D. Butler and **T.E. Dawson**. 2023. Consistent responses to moisture stress within diverse mountain fynbos communities revealed by multi-year in situ physiological measurements. *Oecologia* (in press)[doi.org/10.1007/s00442-023-05326-9].
- 274.** Lloyd, M.K., R.A. Stein, D.E. Ibarra, R.S. Barclay, S.L. Wing, D.W. Stahle, **T.E. Dawson** and D.A. Stolper. 2023. Isotopic composition of wood methyl groups reveals global patterns in plant photorespiration. *Proceedings of the National Academy of Sciences (USA)*(in press).
- 273.** **Dawson, T.E.** Sourcing the water that makes up tree biomass. 2022. *Tree Physiology* (Commentary) **42**: 2149-2152 [doi.10.1093/treephys/tpac109].
- 272.** Matos, I.S., O. Binks, C.B. Eller, B.B. Zorger, P. Meir, **T.E. Dawson** and B.H.P. Rosado. 2022. Revisiting plant hydrological niches: the importance of atmospheric resources for ground-roots plants. *Journal of Ecology* (in press).
- 271.** Hermes, A.I., **T.E. Dawson** and E-L.S. Hinckley. 2022. Sulfur isotopes reveal agricultural changes to the modern sulfur cycle. *Environmental Research Letters* **17**: [doi.org/10.1088/1748-9326/ac6683].

- 270.** Ferguson, B., S.G. Gotsch, C.B. Williams, H. Wilson, C.N. Barnes, **T.E. Dawson** and N.M. Nadkarni. 2022. Variation in cloud immersion, not precipitation, drives vascular epiphyte leaf trait plasticity and water relations during an extreme drought. *American Journal of Botany* **109**: 550-563 [doi.org/10.1002/ajb2.1833]
- 269.** Gotsch, S.G., C.B. Williams, R. Bicaba, R. Cruz-de Hoyos, A. Darby, K. Davidson, M. Dix, V. Duarte, A. Glunk, L. Green, B. Ferguson, K. Munoz-Elizondo, J.G. Murray, I. Picado-Fallas, R. Næsborg, **T.E. Dawson** and N. Nadkarni. 2022. Trade-offs between succulent and non-succulent epiphytes underlie variation in drought tolerance and avoidance. *Oecologia* [doi.org/10.1007/s00442-022-05140-9].
- 268.** Anderegg, L.D.L., D.M. Griffith, J. Cavender-Bares, W.J. Riley, J.A. Berry, **T.E. Dawson** and C.J. Still. 2022. Representing plant diversity in land models: An evolutionary approach to make 'Functional Types' more functional. *Global Change Biology* **28** (in press).
- 267.** Keen, R.M., S.L. Voelker, S-Y. Simon Wang, B.J. Bentz, M. Goulden, C.R. Dangerfield, C.C. reed, S.M. Hood, A.Z. Czank, **T.E. Dawson**, A.G. Merschel, and C.J. Still. 2022. Changes in tree drought sensitivity provided early warning signals to the California drought and forest mortality event. *Global Change Biology* **28**: 1119-1132 [doi.org 10.1111/gcb.15973].
- 266.** Willing, C., G. Pierroz, A. Guzman, L.D.L. Anderegg, C. Gao, D. Coleman-Derr, J. Taylor, T. Bruns and **T.E. Dawson**. 2021. Keep your friends close: Landscape heterogeneity drives soil fungal community structure, but biotic filtering and compartmentalization ensure that redwoods maintain key symbionts. *Ecology Letters*. [doi.org/10.1111/ele.13886].
- 265. Letter:** Klein R.G. 2021. Marine resource exploitation at Ysterfontein-1 rockshelter, South Africa ~ and reply to Klein ~ Niespolo, E.M., W.D. Sharp, G. Avery and **T.E. Dawson**. Ysterfontein-1 shell midden (South Africa) and the antiquity of adaptation. *Proceedings of the National Academy of Sciences* Volume **118**: [doi.org/10.1073/pnas.2108794118].
- 264.** Teodoro, G.S., P. de Britto Costa, M. Brum, C. Signori-Müller, S.E. Alcantara, **T.E. Dawson**, A.G. West, H.S. Lambers and R. Oliveira. 2021. Desiccation tolerance implies costs to productivity but allows survival under extreme drought conditions in Velloziaceae species in campos rupestres. *Environmental and Experimental Botany* (in press). 104556. DOI: 10.1016/j.envexbot.2021.104556.
- 263.** Koçillari, L., M.E. Olson, S. Suweis, R.P. Rocha, A. Lovison, F. Cardin, **T.E. Dawson**, A. Echeverria, A. Farjodo, S. Lechthler, C.R. Marcati, C. Martinez-Perez, K-F. Chung, J.A. Rosell, A. Segovia-Rivas, C.B. Williams, E. Petrone-Mendoza, A. Rinaldo, T. Anfodilio, J. Banavar and A. Maritan. 2021. The widened pipe model of plant hydraulic evolution. *Proceedings of the National Academy of Sciences USA* (in press).

- 262.** Bilir, T.E., I. Fung and **T.E. Dawson.** 2021. Slope-aspect induced climate differences influences how water is exchanged between the land and the atmosphere. *Journal of Geophysical Research: Biogeosciences* (in press) [doi.org/10.1029/2020JG006027].
- 261.** Williams, C.B, R.R. Naesborg, A.R. Ambrose, W.L. Baxter, G.W. Koch and **T.E. Dawson.** 2021. The dynamics of stem water storage in the Earth's largest trees – *Sequoiadendron giganteum*. *Tree Physiology* (in press).
- 260.** Hill, A.J., **T.E. Dawson,** A. Dody and S. Rachmilevitch. 2021. Dew water-uptake pathways in Negev desert plants: a study using stable isotope tracers. *Oecologia* **196:** 353-361.
- 259.** Niespolo, E.M., W.D. Sharp, G. Avery and **T.E. Dawson.** 2021. Early, intensive marine resource exploitation by Middle Stone Age humans at Ysterfontein-1 rockshelter, South Africa. *Proceedings of the National Academy of Sciences* **118:** [doi.org/10.1073/pnas.2020042118].
- 258.** Skelton, R.P., L.D.L. Anderegg, J. Diaz, M.M. Kling, P. Papper, L.J. Lamarque, S. Delzon, **T.E. Dawson** and D.D. Ackerly. 2021. Evolutionary relationships between drought-related traits and climate shape large hydraulic safety margins in North American Oaks. *Proceedings of the National Academy of Sciences* (in press).
- 257.** Wommack, E.A., L.C. Marrack, S. Mambelli, J.M. Hull and **T.E. Dawson.** 2021. Using oxygen and hydrogen stable isotopes to track the migratory movement of sharp-shinned hawks (*Accipiter striatus*) along western flyways of North America. *PLOSone* (in press).
- 256.** Cecchetti, A.R., A. Sytsma, A.N. Stiegler, **T.E. Dawson** and D.L. Sedlak. 2021. Use of Stable Nitrogen Isotopes to Track Plant Uptake of Nitrogen in a Nature-Based Treatment System. *Water Research* (in press).
- 255.** Willing, C.E., G. Pierroz, D. Coleman-Derr and **T.E. Dawson.** 2020. The generalizability of water-deficit on bacterial community composition; Site-specific water-availability predicts the bacterial community associated with coast redwood roots. *Molecular Ecology* **29:** 4721-4734.
- 254.** Hahm, W.J., D.M. Rempe, D.N. Dralle, **T.E. Dawson** and W.E. Dietrich. 2020. Oak transpiration drawn from the weathered bedrock vadose zone in the summer dry season. *Water Resources Research* (in press).
- 253.** Dralle, D., W.J. Hahm, D.M. Rempe, A.N. Karst, L.D.L. Anderegg, S.E. Thompson, **T.E. Dawson,** and W.E. Dietrich. 2020. Plants as sensors: vegetation response to rainfall predicts root-zone water storage capacity in Mediterranean climates. *Environmental Research Letters* (in press).
- 252.** Von Freyberg, J., S.T. Allen, C. Grossiord and **T.E. Dawson.** 2020. Plant and root zone water isotopes are difficult to measure, explain, and predict: some practical

recommendations for determining plant water sources. *Methods in Ecology and Evolution* **11**: 1352-1367 [doi: 0.1111/2041-210X.13461].

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249. Huang, H., L.D.L. Anderegg, **T.E. Dawson**, S. Mote and P. D'Odorico. 2020. Critical transition to woody plant dominance through microclimate feedbacks in North American coastal ecosystems. *Ecology* (in press).

248. McLaughlin, B.C. R. Blakey, A.P. Weitz, X. Feng, B.J. Brown, D.D. Ackerly, **T.E. Dawson**, and S.E. Thompson. 2020. Weather underground: subsurface hydrologic processes mediate tree vulnerability to extreme climatic drought. *Global Change Biology* **26**: 3091-3107[doi: 10.1111/gcb.15026].

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238. Voelker, S.L., S-Y. Simon Wang, **T.E. Dawson**, J.S. Roden, C.J. Still, F.J. Longstaffe and A. Ayalon. 2019. Tree-ring isotopes adjacent to Lake Superior reveal cold winter anomalies for the Great Lakes region of North America. *Scientific Reports* (in press)[doi:.
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