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**Plant Thermoregulation: Energetics,
Trait-Environment Interactions, and Carbon Economics**

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134	Characterizing the drivers of seedling leaf gas exchange responses to warming and altered precipitation: indirect and direct effects. 2016 , 8,		6
133	The energetic and carbon economic origins of leaf thermoregulation. 2016 , 2, 16129		97
132	Glacial Amazonia at the canopy-scale: Using a biophysical model to understand forest robustness. 2017 , 171, 38-47		4
131	Biophysical homeostasis of leaf temperature: A neglected process for vegetation and land-surface modelling. 2017 , 26, 998-1007		32
130	Photosynthetic responses to altitude: an explanation based on optimality principles. <i>New Phytologist</i> , 2017 , 213, 976-982	9.8	45
129	Trait variation and integration across scales: is the leaf economic spectrum present at local scales?. 2017 , 40, 685-697		110
128	The enigma of terrestrial primary productivity: measurements, models, scales and the diversity-productivity relationship. 2017 , 40, 239-252		40
127	Precipitation, not air temperature, drives functional responses of trees in semi-arid ecosystems. <i>Journal of Ecology</i> , 2017 , 105, 163-175	6	64
126	Plant-Insect Interactions in a Changing World. 2017 , 81, 289-332		21
125	When leaves go over the thermal edge. 2018 , 41, 1247-1250		12
124	Differences in leaf thermoregulation and water use strategies between three co-occurring Atlantic forest tree species. 2018 , 41, 1618-1631		42
123	Evaluating the kinetic basis of plant growth from organs to ecosystems. <i>New Phytologist</i> , 2018 , 219, 37-48		13
122	Plasticity of photosynthetic heat tolerance in plants adapted to thermally contrasting biomes. 2018 , 41, 1251-1262		47
121	Drivers of terrestrial plant production across broad geographical gradients. 2018 , 27, 166-174		42
120	Reconstructing Paleoclimate and Paleoecology Using Fossil Leaves. 2018 , 289-317		16
119	Distributions of ectomycorrhizal and foliar endophytic fungal communities associated with <i>Pinus ponderosa</i> along a spatially constrained elevation gradient. 2018 , 105, 687-699		18

118	Assessing the interplay between canopy energy balance and photosynthesis with cellulose δ : large-scale patterns and independent ground-truthing. 2018 , 187, 995-1007	10
117	A model for leaf temperature decoupling from air temperature. 2018 , 262, 354-360	22
116	Promises and challenges in insect-plant interactions. 2018 , 166, 319-343	42
115	Advances in Monitoring and Modelling Climate at Ecologically Relevant Scales. 2018 , 101-161	78
114	The Arabidopsis THADA homologue modulates TOR activity and cold acclimation. 2019 , 21 Suppl 1, 77-83	17
113	Thermal imaging as a noninvasive technique for analyzing circadian rhythms in plants. <i>New Phytologist</i> , 2019 , 224, 1685-1696	9.8 8
112	Trait-based plant ecology a flawed tool in climate studies? The leaf traits of wild olive that pattern with climate are not those routinely measured. 2019 , 14, e0219908	4
111	Thermal imaging in plant and ecosystem ecology: applications and challenges. 2019 , 10, e02768	35
110	Responses of Aspen Leaves to Heatflecks: Both Damaging and Non-Damaging Rapid Temperature Excursions Reduce Photosynthesis. 2019 , 8,	14
109	Mesophyll thickness and sclerophylly among <i>Calotropis procera</i> morphotypes reveal water-saved adaptation to environments. 2019 , 11, 795-810	9
108	When a cuvette is not a canopy: A caution about measuring leaf temperature during gas exchange measurements. 2019 , 279, 107737	6
107	Sensitivity of a leaf gas-exchange model for estimating paleoatmospheric CO ₂ concentration. 2019 , 15, 795-809	9
106	No Evidence for a Large Atmospheric CO ₂ Spike Across the Cretaceous-Paleogene Boundary. 2019 , 46, 3462-3472	13
105	In a globally warming world, insects act locally to manipulate their own microclimate. 2019 , 116, 5220-5222	4
104	Moss regulates soil evaporation leading to decoupling of soil and near-surface air temperatures. 2019 , 19, 2903-2912	0
103	Preface. 2019 , xiii-xiv	
102	Terrestrial Biosphere Models. 2019 , 1-24	2
101	Quantitative Description of Ecosystems. 2019 , 25-39	

100 Fundamentals of Energy and Mass Transfer. **2019**, 40-52

99 Mathematical Formulation of Biological Flux Rates. **2019**, 53-63

98 Soil Temperature. **2019**, 64-79

0

97 Turbulent Fluxes and Scalar Profiles in the Surface Layer. **2019**, 80-100

1

96 Surface Energy Fluxes. **2019**, 101-114

0

95 Soil Moisture. **2019**, 115-133

94 Hydrologic Scaling and Spatial Heterogeneity. **2019**, 134-151

93 Leaf Temperature and Energy Fluxes. **2019**, 152-166

92 Leaf Photosynthesis. **2019**, 167-188

0

91 Stomatal Conductance. **2019**, 189-212

1

90 Plant Hydraulics. **2019**, 213-227

2

89 Radiative Transfer. **2019**, 228-259

0

88 Plant Canopies. **2019**, 260-279

87 Scalar Canopy Profiles. **2019**, 280-300

86 Biogeochemical Models. **2019**, 301-321

85 Soil Biogeochemistry. **2019**, 322-343

84 Vegetation Demography. **2019**, 344-364

83 Canopy Chemistry. **2019**, 365-380

82 Appendices. **2019**, 381-390

81 References. **2019**, 391-428

1

80 Index. **2019**, 429-438

79 Biomimetic Groundwork for Thermal Exchange Structures Inspired by Plant Leaf Design. **2019**, 4,

7

78 Unimodal relationship between three-dimensional soil heterogeneity and plant species diversity in experimental mesocosms. **2019**, 436, 397-411

13

77 Advances in Microclimate Ecology Arising from Remote Sensing. *Trends in Ecology and Evolution*, **2019**, 34, 327-341

10.9 106

76 Homeostatic maintenance of nonstructural carbohydrates during the 2015-2016 El Niño drought across a tropical forest precipitation gradient. **2019**, 42, 1705-1714

16

75 The response of stomatal conductance to seasonal drought in tropical forests. **2020**, 26, 823-839

26

74 Using Leaf Temperature to Improve Simulation of Heat and Drought Stresses in a Biophysical Model. **2019**, 9,

2

73 A framework for finding inspiration in nature: Biomimetic energy efficient building design. **2020**, 225, 110296

8

72 Elevated Temperatures Impose Transcriptional Constraints and Elicit Intraspecific Differences Between Coffee Genotypes. **2020**, 11, 1113

3

71 Low predictability of energy balance traits and leaf temperature metrics in desert, montane and alpine plant communities. **2020**, 34, 1882-1897

5

70 Is foliage clumping an outcome of resource limitations within forests?. **2020**, 295, 108185

5

69 The Leaf Economics Spectrum Constrains Phenotypic Plasticity Across a Light Gradient. **2020**, 11, 735

4

68 No evidence of homeostatic regulation of leaf temperature in *Eucalyptus parramattensis* trees: integration of CO flux and oxygen isotope methodologies. *New Phytologist*, **2020**, 228, 1511-1523

9.8 5

67 P-model v1.0: an optimality-based light use efficiency model for simulating ecosystem gross primary production. **2020**, 13, 1545-1581

32

66 Surface temperature as an indicator of plant species diversity and restoration in oak woodland. **2020**, 113, 106249

7

65 The Thermal Tolerances, Distributions, and Performances of Tropical Montane Tree Species. **2020**, 3,

14

64	Plant's-eye view of temperature governs elevational distributions. 2020 , 26, 4094-4103		5
63	Leaf temperature and its dependence on atmospheric CO2 and leaf size. 2021 , 56, 866-885		5
62	Adaptive trait syndromes along multiple economic spectra define cold and warm adapted ecotypes in a widely distributed foundation tree species. <i>Journal of Ecology</i> , 2021 , 109, 1298-1318	6	3
61	Outdoor infrared imaging for spatial and temporal thermography: A case study of necrotic versus healthy leaf areas on woody plants. 2021 , 169, 62-70		1
60	UAV thermal image detects genetic trait differences among populations and genotypes of Fremont cottonwood (<i>Populus fremontii</i> , Salicaceae). 2021 , 7, 245-258		2
59	Using leaf shape to determine leaf size could be a game-changer. A commentary on: 'Leaf size estimation based on leaf length, width and shape'. 2021 ,		
58	Photosystem II heat tolerances characterize thermal generalists and the upper limit of carbon assimilation. 2021 , 44, 2321-2330		1
57	Macroecological context predicts species' responses to climate warming. 2021 , 27, 2088-2101		4
56	Global analysis reveals an environmentally driven latitudinal pattern in mushroom size across fungal species. 2021 , 24, 658-667		2
55	Evidence for efficient non-evaporative leaf-to-air heat dissipation in a pine forest under drought conditions.		0
54	Leaf heat tolerance of 147 tropical forest species varies with elevation and leaf functional traits, but not with phylogeny. 2021 , 44, 2414-2427		6
53	Only sun-lit leaves of the uppermost canopy exceed both air temperature and photosynthetic thermal optima in a wet tropical forest. 2021 , 301-302, 108347		11
52	Spatio-temporal differences in leaf physiology are associated with fire, not drought, in a clonally integrated shrub. 2021 , 13, plab037		
51	A way to increase crop science productivity. 2021 , 848, 012197		
50	Evidence for efficient nonevaporative leaf-to-air heat dissipation in a pine forest under drought conditions. <i>New Phytologist</i> , 2021 , 232, 2254-2266	9.8	1
49	Thermal safety margins of plant leaves across biomes under a heatwave. <i>Science of the Total Environment</i> , 2022 , 806, 150416	10.2	0
48	Climate Change and Terrestrial Ecosystem Modeling. 2019 ,		32
47	Investigation of leaf shape and edge design for faster evaporation in biomimetic heat dissipation systems. 2018 ,		3

46 Handling the heat - photosynthetic thermal stress in tropical trees. *New Phytologist*, **2022**, 233, 236-250 9.8 1

45 Short-term warming does not affect intrinsic thermotolerance but induces strong sustaining photoprotection in tropical evergreen citrus genotypes. **2021**, 2

44 Long-Term Assessment of Reference Baselines for the Determination of the Crop Water Stress Index in Maize under Mediterranean Conditions. **2021**, 13, 3119 0

43 Species Distribution Based-Modelling Under Climate Change: The Case of Two Native Wild *Olea europaea* Subspecies in Morocco, *O. e. subsp. europaea* var. *sylvestris* and *O. e. subsp. maroccana*. **2022**, 21-43 1

42 Nitrogen improves plant cooling capacity under increased environmental temperature. **2022**, 472, 329 0

41 Dynamic biotic controls of leaf thermoregulation across the diel timescale. **2022**, 315, 108827 0

40 Soil development mediates precipitation control on plant productivity and diversity in alpine grasslands. **2022**, 412, 115721 0

39 Tradeoffs between leaf cooling and hydraulic safety in a dominant arid land riparian tree species.. **2022**, 0

38 Variations in accuracy of leaf functional trait prediction due to spectral mixing. **2022**, 136, 108687 1

37 Trait phenology and fire seasonality co-drive seasonal variation in fire effects on tree crowns.. *New Phytologist*, **2022**, 9.8 0

36 What evidence exists on the impact of anthropogenic radiofrequency electromagnetic fields on animals and plants in the environment? A systematic map protocol. **2021**, 10, 0

35 Thermal imagery of woodland tree canopies provides new insights into drought-induced tree mortality.. *Science of the Total Environment*, **2022**, 155395 10.2

34 Image_1.pdf. **2020**,

33 Table_1.xlsx. **2020**,

32 Table_2.pdf. **2020**,

31 Table_3.pdf. **2020**,

30 Data_Sheet_1.docx. **2020**,

29 Image_1.TIF. **2020**,

28 Image_2.TIF. **2020**,

27 DataSheet_1.docx. **2020**,

26 Table_1.xlsx. **2020**,

25 Table_2.xlsx. **2020**,

24 Table_3.xlsx. **2020**,

23 Table_4.xlsx. **2020**,

22 Table_5.xlsx. **2020**,

21 Table_6.xlsx. **2020**,

20 Using near-ground leaf temperatures alters the projected climate change impacts on the historical range of a floristic biodiversity hotspot. *Diversity and Distributions*, 5

19 In-situ energy budget of needle-leaves reveals shift from evaporative to air cooling under drought.

18 Linking physiology to ecosystem function: how vulnerable are different functional groups to climate change?.

17 Climate-driven thermal opportunities and risks for leaf miners in aspen canopies. *Ecological Monographs*, 9 1

16 Thermal remote sensing for plant ecology from leaf to globe. *Journal of Ecology*, 6 1

15 Gas exchange analyzers exhibit large measurement error driven by internal thermal gradients. *New Phytologist*, 9.8

14 Assessing and modeling diurnal temperature buffering and evapotranspiration dynamics in forest restoration using ECOSTRESS thermal imaging. *Remote Sensing of Environment*, **2022**, 280, 113178 13.2 0

13 Climate constrains the leaf morphologies and photosynthetic strategies of Darwin's daisies.

12 Physiological traits and response strategies of four subtropical tree species exposed to drought. **2022**, 203, 105046

11 Leaf water content contributes to global leaf trait relationships. **2022**, 13, 1

- 10 Thermal sensitivity across forest vertical profiles: patterns, mechanisms, and ecological implications. ○
- 9 A mathematical model for the energy stored in green roofs. **2022**, ○
- 8 TheLR531v1 [A deep learning multi-branch CNN architecture for day-night automatic segmentation of horticultural crops. **2023**, 204, 107557 ○
- 7 Compound and simple leaf woody species of the Chilean matorral are equally affected by extreme drought. ○
- 6 Freezing resistance and xylem anatomy in low and high elevation populations of *Senecio formosus* Kunth in the tropical Andes. ○
- 5 Temperature changes in the root ecosystem affect plant functionality. **2022**, 100514 ○
- 4 Leaf economics fundamentals explained by optimality principles. **2023**, 9, ○
- 3 Detailed in situ leaf energy budget permits the assessment of leaf aerodynamic resistance as a key to enhance non-evaporative cooling under drought. ○
- 2 Heat dissipation from photosynthesis contributes to maize thermoregulation under suboptimal temperature conditions. ○
- 1 Thermal tolerance of tropical and temperate alpine plants suggests that mountain passes are not higher in the tropics □ ○