

Sean T Michaletz

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

4,656
citations

147801

31
h-index

106344

65
g-index

76
all docs

76
docs citations

76
times ranked

8031
citing authors

#	ARTICLE	IF	CITATIONS
1	The acquisitiveâ€“conservative axis of leaf trait variation emerges even in homogeneous environments. <i>Annals of Botany</i> , 2022, 129, 709-722.	2.9	18
2	Dynamic biotic controls of leaf thermoregulation across the diel timescale. <i>Agricultural and Forest Meteorology</i> , 2022, 315, 108827.	4.8	7
3	Global maps of soil temperature. <i>Global Change Biology</i> , 2022, 28, 3110-3144.	9.5	113
4	Variations in accuracy of leaf functional trait prediction due to spectral mixing. <i>Ecological Indicators</i> , 2022, 136, 108687.	6.3	7
5	Trait phenology and fire seasonality coâ€“drive seasonal variation in fire effects on tree crowns. <i>New Phytologist</i> , 2022, 234, 1654-1663.	7.3	5
6	High exposure of global tree diversity to human pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	18
7	Gas exchange analysers exhibit large measurement error driven by internal thermal gradients. <i>New Phytologist</i> , 2022, 236, 369-384.	7.3	6
8	Nextâ€“generation field courses: Integrating Open Science and online learning. <i>Ecology and Evolution</i> , 2021, 11, 3577-3587.	1.9	11
9	Modeling fire effects on plants: From organs to ecosystems. , 2021, , 383-421.		3
10	Leaf heat tolerance of 147 tropical forest species varies with elevation and leaf functional traits, but not with phylogeny. <i>Plant, Cell and Environment</i> , 2021, 44, 2414-2427.	5.7	33
11	Multiscale mapping of plant functional groups and plant traits in the High Arctic using field spectroscopy, UAV imagery and Sentinel-2A data. <i>Environmental Research Letters</i> , 2021, 16, 055006.	5.2	34
12	Dimensions of invasiveness: Links between local abundance, geographic range size, and habitat breadth in Europeâ€™s alien and native floras. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	47
13	Methods matter for assessing global variation in plant thermal tolerance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	5
14	Extending Our Scientific Reach in Arboreal Ecosystems for Research and Management. <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	2.3	14
15	The response of stomatal conductance to seasonal drought in tropical forests. <i>Global Change Biology</i> , 2020, 26, 823-839.	9.5	60
16	The handbook for standardized field and laboratory measurements in terrestrial climate change experiments and observational studies (ClimEx). <i>Methods in Ecology and Evolution</i> , 2020, 11, 22-37.	5.2	68
17	TRY plant trait database â€“ enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
18	Low predictability of energy balance traits and leaf temperature metrics in desert, montane and alpine plant communities. <i>Functional Ecology</i> , 2020, 34, 1882-1897.	3.6	22

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19	Biogeographic patterns of microbial co-occurrence ecological networks in six American forests. <i>Soil Biology and Biochemistry</i> , 2020, 148, 107897.	8.8	68
20	The Leaf Economics Spectrum Constrains Phenotypic Plasticity Across a Light Gradient. <i>Frontiers in Plant Science</i> , 2020, 11, 735.	3.6	14
21	Plant traits and vegetation data from climate warming experiments along an 1100m elevation gradient in Gongga Mountains, China. <i>Scientific Data</i> , 2020, 7, 189.	5.3	13
22	Traits mediate drought effects on wood carbon fluxes. <i>Global Change Biology</i> , 2020, 26, 3429-3442.	9.5	15
23	Open Science principles for accelerating trait-based science across the Tree of Life. <i>Nature Ecology and Evolution</i> , 2020, 4, 294-303.	7.8	144
24	Continental scale structuring of forest and soil diversity via functional traits. <i>Nature Ecology and Evolution</i> , 2019, 3, 1298-1308.	7.8	34
25	Patterns and ecological determinants of woody plant height in eastern Eurasia and its relation to primary productivity. <i>Journal of Plant Ecology</i> , 2019, 12, 791-803.	2.3	15
26	Thermal disruption of soil bacterial assemblages decreases diversity and assemblage similarity. <i>Ecosphere</i> , 2019, 10, e02598.	2.2	2
27	Fire effects on tree physiology. <i>New Phytologist</i> , 2019, 223, 1728-1741.	7.3	94
28	The relationship of woody plant size and leaf nutrient content to large-scale productivity for forests across the Americas. <i>Journal of Ecology</i> , 2019, 107, 2278-2290.	4.0	18
29	Drought and the interannual variability of stem growth in an aseasonal, everwet forest. <i>Biotropica</i> , 2019, 51, 139-154.	1.6	7
30	Climate shapes and shifts functional biodiversity in forests worldwide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 587-592.	7.1	131
31	Position of cones within cone clusters determines seed survival in black spruce during wildfire. <i>Canadian Journal of Forest Research</i> , 2019, 49, 121-127.	1.7	14
32	Homeostatic maintenance of nonstructural carbohydrates during the 2015-2016 El Niño drought across a tropical forest precipitation gradient. <i>Plant, Cell and Environment</i> , 2019, 42, 1705-1714.	5.7	29
33	Evaluating the kinetic basis of plant growth from organs to ecosystems. <i>New Phytologist</i> , 2018, 219, 37-44.	7.3	25
34	Xylem dysfunction in fires: towards a hydraulic theory of plant responses to multiple disturbance stressors. <i>New Phytologist</i> , 2018, 217, 1391-1393.	7.3	21
35	Toward a theory for diversity gradients: the abundance-adaptation hypothesis. <i>Ecography</i> , 2018, 41, 255-264.	4.5	36
36	Drivers of terrestrial plant production across broad geographical gradients. <i>Global Ecology and Biogeography</i> , 2018, 27, 166-174.	5.8	60

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37	Taxonomic decomposition of the latitudinal gradient in species diversity of North American floras. <i>Journal of Biogeography</i> , 2018, 45, 418-428.	3.0	22
38	Predicting Chronic Climate-Driven Disturbances and Their Mitigation. <i>Trends in Ecology and Evolution</i> , 2018, 33, 15-27.	8.7	77
39	Intraspecific Trait Variation and Phenotypic Plasticity Mediate Alpine Plant Species Response to Climate Change. <i>Frontiers in Plant Science</i> , 2018, 9, 1548.	3.6	131
40	Advances in Mechanistic Approaches to Quantifying Biophysical Fire Effects. <i>Current Forestry Reports</i> , 2018, 4, 161-177.	7.4	59
41	Spatial scaling of forest soil microbial communities across a temperature gradient. <i>Environmental Microbiology</i> , 2018, 20, 3504-3513.	3.8	24
42	A model for leaf temperature decoupling from air temperature. <i>Agricultural and Forest Meteorology</i> , 2018, 262, 354-360.	4.8	55
43	Traits drive global wood decomposition rates more than climate. <i>Global Change Biology</i> , 2018, 24, 5259-5269.	9.5	59
44	Biogeochemistry drives diversity in the prokaryotes, fungi, and invertebrates of a Panama forest. <i>Ecology</i> , 2017, 98, 2019-2028.	3.2	46
45	Correspondence: Reply to "Analytical flaws in a continental-scale forest soil microbial diversity study". <i>Nature Communications</i> , 2017, 8, 15583.	12.8	4
46	Tree water dynamics in a drying and warming world. <i>Plant, Cell and Environment</i> , 2017, 40, 1861-1873.	5.7	96
47	Assessing trait-based scaling theory in tropical forests spanning a broad temperature gradient. <i>Global Ecology and Biogeography</i> , 2017, 26, 1357-1373.	5.8	57
48	Precipitation, not air temperature, drives functional responses of trees in semi-arid ecosystems. <i>Journal of Ecology</i> , 2017, 105, 163-175.	4.0	86
49	Toward a General Scaling Theory for Linking Traits, Stoichiometry, and Body Size to Ecosystem Function. , 2016, , 9-46.		8
50	Temperature mediates continental-scale diversity of microbes in forest soils. <i>Nature Communications</i> , 2016, 7, 12083.	12.8	419
51	The energetic and carbon economic origins of leaf thermoregulation. <i>Nature Plants</i> , 2016, 2, 16129.	9.3	178
52	Biogeographic patterns of soil diazotrophic communities across six forests in the North America. <i>Molecular Ecology</i> , 2016, 25, 2937-2948.	3.9	76
53	Plant Thermoregulation: Energetics, Trait-Environment Interactions, and Carbon Economics. <i>Trends in Ecology and Evolution</i> , 2015, 30, 714-724.	8.7	154
54	Non-serotinous woody plants behave as aerial seed bank species when a late-summer wildfire coincides with a mast year. <i>Ecology and Evolution</i> , 2014, 4, 3830-3840.	1.9	16

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55	Convergence of terrestrial plant production across global climate gradients. <i>Nature</i> , 2014, 512, 39-43.	27.8	274
56	Timing of fire relative to seed development may enable non-serotinous species to recolonize from the aerial seed banks of fire-killed trees. <i>Biogeosciences</i> , 2013, 10, 5061-5078.	3.3	19
57	Moving beyond the cambium necrosis hypothesis of post-fire tree mortality: cavitation and deformation of xylem in forest fires. <i>New Phytologist</i> , 2012, 194, 254-263.	7.3	111
58	Predicting climate change effects on wildfires requires linking processes across scales. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2011, 2, 99-112.	8.1	57
59	A biophysical process model of tree mortality in surface fires. <i>Canadian Journal of Forest Research</i> , 2008, 38, 2013-2029.	1.7	44
60	How forest fires kill trees: A review of the fundamental biophysical processes. <i>Scandinavian Journal of Forest Research</i> , 2007, 22, 500-515.	1.4	169
61	A heat transfer model of crown scorch in forest fires. <i>Canadian Journal of Forest Research</i> , 2006, 36, 2839-2851.	1.7	67
62	Foliage influences forced convection heat transfer in conifer branches and buds. <i>New Phytologist</i> , 2006, 170, 87-98.	7.3	47
63	Summary of the Closing Plenary Lunch. <i>Bulletin of the Ecological Society of America</i> , 2006, 87, 394-395.	0.2	0
64	Fire and Biological Processes. <i>Journal of Vegetation Science</i> , 2003, 14, 622.	2.2	8