

Martin Macek

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5081273/publications.pdf>

Version: 2024-02-01

45
papers

2,175
citations

279798

23
h-index

243625

44
g-index

47
all docs

47
docs citations

47
times ranked

3412
citing authors

#	ARTICLE	IF	CITATIONS
1	Forest microclimate dynamics drive plant responses to warming. <i>Science</i> , 2020, 368, 772-775.	12.6	385
2	Drivers of temporal changes in temperate forest plant diversity vary across spatial scales. <i>Global Change Biology</i> , 2015, 21, 3726-3737.	9.5	124
3	SoilTemp: A global database of near-surface temperature. <i>Global Change Biology</i> , 2020, 26, 6616-6629.	9.5	122
4	Climate at ecologically relevant scales: A new temperature and soil moisture logger for long-term microclimate measurement. <i>Agricultural and Forest Meteorology</i> , 2019, 268, 40-47.	4.8	116
5	Global maps of soil temperature. <i>Global Change Biology</i> , 2022, 28, 3110-3144.	9.5	113
6	Topographic Wetness Index calculation guidelines based on measured soil moisture and plant species composition. <i>Science of the Total Environment</i> , 2021, 757, 143785.	8.0	106
7	The origin of grasslands in the temperate forest zone of east-central Europe: long-term legacy of climate and human impact. <i>Quaternary Science Reviews</i> , 2015, 116, 15-27.	3.0	104
8	Vegetation dynamics at the upper elevational limit of vascular plants in Himalaya. <i>Scientific Reports</i> , 2016, 6, 24881.	3.3	103
9	Combining Biodiversity Resurveys across Regions to Advance Global Change Research. <i>BioScience</i> , 2017, 67, 73-83.	4.9	89
10	Vegetation resurvey is robust to plot location uncertainty. <i>Diversity and Distributions</i> , 2015, 21, 322-330.	4.1	80
11	Poleward migration of the destructive effects of tropical cyclones during the 20th century. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11543-11548.	7.1	71
12	Replacements of small- by large-ranged species scale up to diversity loss in Europe's temperate forest biome. <i>Nature Ecology and Evolution</i> , 2020, 4, 802-808.	7.8	67
13	ForestTemp – Subcanopy microclimate temperatures of European forests. <i>Global Change Biology</i> , 2021, 27, 6307-6319.	9.5	57
14	Observer and relocation errors matter in resurveys of historical vegetation plots. <i>Journal of Vegetation Science</i> , 2018, 29, 812-823.	2.2	51
15	Light availability and land-use history drive biodiversity and functional changes in forest herb layer communities. <i>Journal of Ecology</i> , 2020, 108, 1411-1425.	4.0	49
16	Maximum air temperature controlled by landscape topography affects plant species composition in temperate forests. <i>Landscape Ecology</i> , 2019, 34, 2541-2556.	4.2	48
17	Temporal changes in the spatial distribution of carabid beetles around arable field-woodlot boundaries. <i>Scientific Reports</i> , 2019, 9, 8967.	3.3	42
18	Directional turnover towards larger-ranged plants over time and across habitats. <i>Ecology Letters</i> , 2022, 25, 466-482.	6.4	39

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19	Life and death of <i>Picea abies</i> after bark beetle outbreak: ecological processes driving seedling recruitment. <i>Ecological Applications</i> , 2017, 27, 156-167.	3.8	36
20	Niche asymmetry of vascular plants increases with elevation. <i>Journal of Biogeography</i> , 2017, 44, 1418-1425.	3.0	31
21	Climate warming drives Himalayan alpine plant growth and recruitment dynamics. <i>Journal of Ecology</i> , 2021, 109, 179-190.	4.0	28
22	Sink limitation of plant growth determines tree line in the arid Himalayas. <i>Functional Ecology</i> , 2019, 33, 553-565.	3.6	27
23	Gardening in the zone of death: an experimental assessment of the absolute elevation limit of vascular plants. <i>Scientific Reports</i> , 2016, 6, 24440.	3.3	26
24	Application of optical unmanned aerial vehicle-based imagery for the inventory of natural regeneration and standing deadwood in post-disturbed spruce forests. <i>International Journal of Remote Sensing</i> , 2018, 39, 5288-5309.	2.9	24
25	Evaluating structural and compositional canopy characteristics to predict the light demand signature of the forest understorey in mixed, semi-natural temperate forests. <i>Applied Vegetation Science</i> , 2021, 24, .	1.9	24
26	Small changes in species composition despite stand-replacing bark beetle outbreak in <i>Picea abies</i> mountain forests. <i>Canadian Journal of Forest Research</i> , 2015, 45, 1164-1171.	1.7	21
27	Temperature buffering in temperate forests: Comparing microclimate models based on ground measurements with active and passive remote sensing. <i>Remote Sensing of Environment</i> , 2021, 263, 112522.	11.0	21
28	Population and forest dynamics during the Central European Eneolithic (4500–2000 BC). <i>Archaeological and Anthropological Sciences</i> , 2018, 10, 1153-1164.	1.8	17
29	Functionally distinct assembly of vascular plants colonizing alpine cushions suggests their vulnerability to climate change. <i>Annals of Botany</i> , 2019, 123, 569-578.	2.9	17
30	Plant's-eye view of temperature governs elevational distributions. <i>Global Change Biology</i> , 2020, 26, 4094-4103.	9.5	17
31	Spatio-Temporal Modelling As A Way to Reconstruct Patterns of Past Human Activities. <i>Archaeometry</i> , 2016, 58, 513-528.	1.3	16
32	Contrasting biomass allocation responses across ontogeny and stress gradients reveal plant adaptations to drought and cold. <i>Functional Ecology</i> , 2021, 35, 32-42.	3.6	16
33	Legacy of historical litter raking in temperate forest plant communities. <i>Journal of Vegetation Science</i> , 2018, 29, 596-606.	2.2	15
34	Can high-resolution topography and forest canopy structure substitute microclimate measurements? Bryophytes say no. <i>Science of the Total Environment</i> , 2022, 821, 153377.	8.0	15
35	Responses of competitive understorey species to spatial environmental gradients inaccurately explain temporal changes. <i>Basic and Applied Ecology</i> , 2018, 30, 52-64.	2.7	11
36	The Taraxacum Flora of Ladakh, with notes on the adjacent regions of the West Himalaya. <i>Phytotaxa</i> , 2020, 457, 1-409.	0.3	9

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37	Plant diversity in deciduous temperate forests reflects interplay among ancient and recent environmental stress. <i>Journal of Vegetation Science</i> , 2020, 31, 53-62.	2.2	7
38	Elevational range size patterns of vascular plants in the Himalaya contradict Rapoport's rule. <i>Journal of Ecology</i> , 2021, 109, 4025-4037.	4.0	7
39	More than trees: The challenges of creating a geodatabase to capture the complexity of forest history. <i>Historical Methods</i> , 2018, 51, 175-189.	1.5	6
40	Thermal differences between juveniles and adults increased over time in European forest trees. <i>Journal of Ecology</i> , 2021, 109, 3944-3957.	4.0	4
41	Midpoint attractor models resolve the mid-elevation peak in Himalayan plant species richness. <i>Ecography</i> , 2021, 44, 1665-1677.	4.5	4
42	Response to Comment on "Forest microclimate dynamics drive plant responses to warming". <i>Science</i> , 2020, 370, .	12.6	3
43	LONGWOOD: integrating woodland history and ecology in a geodatabase through an interdisciplinary approach. , 2013, 8795, .		1
44	Response to Comment on "Forest microclimate dynamics drive plant responses to warming". <i>Science</i> , 2020, 370, .	12.6	1
45	Using archaeology for population estimates and land use reconstructions: a perspective from Central Europe. <i>Past Global Change Magazine</i> , 2018, 26, 30-31.	0.1	1