

Michael Leuchner

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,670
citations

394286

19
h-index

289141

40
g-index

52
all docs

52
docs citations

52
times ranked

2526
citing authors

#	ARTICLE	IF	CITATIONS
1	Atmospheric oxidation capacity in the summer of Houston 2006: Comparison with summer measurements in other metropolitan studies. <i>Atmospheric Environment</i> , 2010, 44, 4107-4115.	1.9	214
2	VOC source-receptor relationships in Houston during TexAQS-II. <i>Atmospheric Environment</i> , 2010, 44, 4056-4067.	1.9	182
3	Enhanced ozone strongly reduces carbon sink strength of adult beech (<i>Fagus sylvatica</i>) - Resume from the free-air fumigation study at Kranzberg Forest. <i>Environmental Pollution</i> , 2010, 158, 2527-2532.	3.7	140
4	Extraordinary drought of 2003 overrules ozone impact on adult beech trees (<i>Fagus sylvatica</i>). <i>Trees - Structure and Function</i> , 2006, 20, 539-548.	0.9	127
5	Comparison of ozone uptake and sensitivity between a phytotron study with young beech and a field experiment with adult beech (<i>Fagus sylvatica</i>). <i>Environmental Pollution</i> , 2005, 137, 494-506.	3.7	113
6	Changes in first flowering dates and flowering duration of 232 plant species on the island of Guernsey. <i>Global Change Biology</i> , 2014, 20, 3508-3519.	4.2	90
7	Altitudinal temperature lapse rates in an Alpine valley: trends and the influence of season and weather patterns. <i>International Journal of Climatology</i> , 2013, 33, 539-555.	1.5	72
8	Formaldehyde and its relation to CO, PAN, and SO ₂ in the Houston-Galveston airshed. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2413-2424.	1.9	65
9	Recent climate change: Long-term trends in meteorological forest fire danger in the Alps. <i>Agricultural and Forest Meteorology</i> , 2012, 162-163, 1-13.	1.9	57
10	Measurements of primary trace gases and NO _y composition in Houston, Texas. <i>Atmospheric Environment</i> , 2010, 44, 4068-4080.	1.9	45
11	Impact of clouds and aerosols on ozone production in Southeast Texas. <i>Atmospheric Environment</i> , 2010, 44, 4126-4133.	1.9	45
12	Spatial variability of photosynthetically active radiation in European beech and Norway spruce. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 1226-1232.	1.9	39
13	Simulating stand climate, phenology, and photosynthesis of a forest stand with a process-based growth model. <i>International Journal of Biometeorology</i> , 2010, 54, 449-464.	1.3	36
14	Vertical variability of spectral ratios in a mature mixed forest stand. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 1096-1105.	1.9	31
15	ACTRIS non-methane hydrocarbon intercomparison experiment in Europe to support WMO GAW and EMEP observation networks. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 2715-2736.	1.2	28
16	Quantifying the relationship between light quality and light availability at different phenological stages within a mature mixed forest. <i>Agricultural and Forest Meteorology</i> , 2007, 142, 35-44.	1.9	26
17	Fine fuel moisture for site- and species-specific fire danger assessment in comparison to fire danger indices. <i>Agricultural and Forest Meteorology</i> , 2017, 234-235, 31-47.	1.9	25
18	On the diurnal, weekly, and seasonal cycles and annual trends in atmospheric CO ₂ at Mount Zugspitze, Germany, during 1981-2016. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 999-1012.	1.9	24

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19	Ozone fumigation (twice ambient) reduces leaf infestation following natural and artificial inoculation by the endophytic fungus <i>Apiognomonia errabunda</i> of adult European beech trees. <i>Environmental Pollution</i> , 2010, 158, 1043-1050.	3.7	22
20	Nitrogen deposition along differently exposed slopes in the Bavarian Alps. <i>Science of the Total Environment</i> , 2014, 470-471, 895-906.	3.9	22
21	Forest fire danger rating in complex topography – results from a case study in the Bavarian Alps in autumn 2011. <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 2157-2167.	1.5	19
22	Seasonal and Diurnal Variation of Formaldehyde and its Meteorological Drivers at the GAW Site Zugspitze. <i>Aerosol and Air Quality Research</i> , 2016, 16, 801-815.	0.9	19
23	Spectral Multichannel Monitoring of Radiation within a Mature Mixed Forest. <i>Plant Biology</i> , 2005, 7, 619-627.	1.8	18
24	Can positive matrix factorization help to understand patterns of organic trace gases at the continental Global Atmosphere Watch site Hohenpeissenberg?. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1221-1236.	1.9	18
25	Upscaling Net Ecosystem Exchange Over Heterogeneous Landscapes With Machine Learning. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG005814.	1.3	18
26	Sustainable Supply of Safe Drinking Water for Underserved Households in Kenya: Investigating the Viability of Decentralized Solutions. <i>Water (Switzerland)</i> , 2015, 7, 5437-5457.	1.2	16
27	Comparison of different methods for the in situ measurement of forest litter moisture content. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 403-415.	1.5	16
28	Equilibrium moisture content of dead fine fuels of selected central European tree species. <i>International Journal of Wildland Fire</i> , 2013, 22, 797.	1.0	15
29	Quantification of monoterpene emission sources of a conifer species in response to experimental drought. <i>AoB PLANTS</i> , 2017, 9, plx045.	1.2	15
30	Impact of summer drought on isoprenoid emissions and carbon sink of three Scots pine provenances. <i>Tree Physiology</i> , 2016, 36, 1382-1399.	1.4	14
31	Flux-based ozone risk assessment for adult beech forests. <i>Trees - Structure and Function</i> , 2012, 26, 1713-1721.	0.9	13
32	Assessing stand structure of beech and spruce from measured spectral radiation properties and modeled leaf biomass parameters. <i>Agricultural and Forest Meteorology</i> , 2012, 165, 82-91.	1.9	13
33	Solar Radiation as a Driver for Growth and Competition in Forest Stands. <i>Ecological Studies</i> , 2012, , 175-191.	0.4	12
34	Characterization of differential throughfall drop size distributions beneath European beech and Norway spruce. <i>Hydrological Processes</i> , 2019, 33, 3391-3406.	1.1	11
35	Pollution Events at the High-Altitude Mountain Site Zugspitze-Schneefernerhaus (2670 m a.s.l.), Germany. <i>Atmosphere</i> , 2019, 10, 330.	1.0	11
36	Atmospheric CO ₂ and δ ¹³ C Measurements from 2012 to 2014 at the Environmental Research Station Schneefernerhaus, Germany: Technical Corrections, Temporal Variations and Trajectory Clustering. <i>Aerosol and Air Quality Research</i> , 2019, 19, 657-670.	0.9	9

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37	Flux-Based Ozone Risk Assessment for Adult Beech and Spruce Forests. <i>Developments in Environmental Science</i> , 2013, 13, 251-266.	0.5	7
38	The Tree Drought Emission MONitor (Tree DEMON), an innovative system for assessing biogenic volatile organic compounds emission from plants. <i>Plant Methods</i> , 2017, 13, 14.	1.9	6
39	Climate sensitivity and variation in first flowering of 26 Narcissus cultivars. <i>International Journal of Biometeorology</i> , 2015, 59, 477-480.	1.3	4
40	Effects of Measurement Height and Low-Pass-Filtering Corrections on Eddy-Covariance Flux Measurements Over a Forest Clearing with Complex Vegetation. <i>Boundary-Layer Meteorology</i> , 2022, 184, 277-299.	1.2	3
41	Evaluation of a system for automatic dead fine fuel moisture measurements. , 0, , 1115-1123.		0