

Johan Uddling

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

4,393
citations

109321

35
h-index

110387

64
g-index

70
all docs

70
docs citations

70
times ranked

5897
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluating the relationship between leaf chlorophyll concentration and SPAD-502 chlorophyll meter readings. <i>Photosynthesis Research</i> , 2007, 91, 37-46.	2.9	585
2	Optimal stomatal behaviour around the world. <i>Nature Climate Change</i> , 2015, 5, 459-464.	18.8	397
3	Acclimation and adaptation components of the temperature dependence of plant photosynthesis at the global scale. <i>New Phytologist</i> , 2019, 222, 768-784.	7.3	171
4	Ozone pollution will compromise efforts to increase global wheat production. <i>Global Change Biology</i> , 2018, 24, 3560-3574.	9.5	163
5	Closing the global ozone yield gap: Quantification and cobenefits for multistress tolerance. <i>Global Change Biology</i> , 2018, 24, 4869-4893.	9.5	163
6	A test of the "one-point method"™ for estimating maximum carboxylation capacity from field-measured, light-saturated photosynthesis. <i>New Phytologist</i> , 2016, 210, 1130-1144.	7.3	159
7	New critical levels for ozone effects on young trees based on AOT40 and simulated cumulative leaf uptake of ozone. <i>Atmospheric Environment</i> , 2004, 38, 2283-2294.	4.1	157
8	Assessing foliar chlorophyll contents with the SPAD-502 chlorophyll meter: a calibration test with thirteen tree species of tropical rainforest in French Guiana. <i>Annals of Forest Science</i> , 2010, 67, 607-607.	2.0	153
9	Constraints to nitrogen acquisition of terrestrial plants under elevated CO_2 . <i>Global Change Biology</i> , 2015, 21, 3152-3168.	9.5	146
10	Transpiration of urban trees and its cooling effect in a high latitude city. <i>International Journal of Biometeorology</i> , 2016, 60, 159-172.	3.0	138
11	Yield vs. Quality tradeoffs for wheat in response to carbon dioxide and ozone. <i>Global Change Biology</i> , 2012, 18, 596-605.	9.5	114
12	Patchy field sampling biases understanding of climate change impacts across the Arctic. <i>Nature Ecology and Evolution</i> , 2018, 2, 1443-1448.	7.8	112
13	Ozone – the persistent menace: interactions with the N cycle and climate change. <i>Current Opinion in Environmental Sustainability</i> , 2014, 9-10, 9-19.	6.3	100
14	A stomatal ozone flux-response relationship to assess ozone-induced yield loss of winter wheat in subtropical China. <i>Environmental Pollution</i> , 2012, 164, 16-23.	7.5	85
15	Leaf and canopy conductance in aspen and aspen-birch forests under free-air enrichment of carbon dioxide and ozone. <i>Tree Physiology</i> , 2009, 29, 1367-1380.	3.1	84
16	DO<sub>3>SE modelling of soil moisture to determine ozone flux to forest trees. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 5537-5562.	4.9	83
17	Current surface ozone concentrations significantly decrease wheat growth, yield and quality. <i>Science of the Total Environment</i> , 2018, 613-614, 687-692.	8.0	80
18	Photosynthetic temperature responses of tree species in Rwanda: evidence of pronounced negative effects of high temperature in montane rainforest climax species. <i>New Phytologist</i> , 2015, 206, 1000-1012.	7.3	75

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19	Differences in ozone sensitivity among woody species are related to leaf morphology and antioxidant levels. <i>Tree Physiology</i> , 2016, 36, 1105-1116.	3.1	72
20	Dominant effect of increasing forest biomass on evapotranspiration: interpretations of movement in Budyko space. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 567-580.	4.9	65
21	A unifying explanation for variation in ozone sensitivity among woody plants. <i>Global Change Biology</i> , 2018, 24, 78-84.	9.5	62
22	Interactive influences of ozone and climate on streamflow of forested watersheds. <i>Global Change Biology</i> , 2012, 18, 3395-3409.	9.5	57
23	Sap flux in pure aspen and mixed aspen-birch forests exposed to elevated concentrations of carbon dioxide and ozone. <i>Tree Physiology</i> , 2008, 28, 1231-1243.	3.1	56
24	Temperature responses of photosynthesis and respiration in evergreen trees from boreal to tropical latitudes. <i>New Phytologist</i> , 2022, 234, 353-374.	7.3	52
25	Stomatal and non-stomatal fluxes of ozone to a northern mixed hardwood forest. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007, 59, 514-525.	1.6	51
26	Mesophyll conductance limitation of photosynthesis in poplar under elevated ozone. <i>Science of the Total Environment</i> , 2019, 657, 136-145.	8.0	48
27	Photosynthetic capacity of tropical montane tree species in relation to leaf nutrients, successional strategy and growth temperature. <i>Oecologia</i> , 2015, 177, 1183-1194.	2.0	46
28	Crop quality under rising atmospheric CO ₂ . <i>Current Opinion in Plant Biology</i> , 2018, 45, 262-267.	7.1	46
29	Negative impact of ozone on the stem basal area increment of mature Norway spruce in south Sweden. <i>Forest Ecology and Management</i> , 2006, 232, 146-151.	3.2	45
30	Carbon stocks and dynamics at different successional stages in an Afrotropical forest. <i>Biogeosciences</i> , 2017, 14, 1285-1303.	3.3	44
31	Comparison of crop yield sensitivity to ozone between open-top chamber and free-air experiments. <i>Global Change Biology</i> , 2018, 24, 2231-2238.	9.5	41
32	Ozone impairs autumnal resorption of nitrogen from birch (<i>Betula pendula</i>) leaves, causing an increase in whole-tree nitrogen loss through litter fall. <i>Tree Physiology</i> , 2006, 26, 113-120.	3.1	40
33	Physiological acclimation dampens initial effects of elevated temperature and atmospheric CO ₂ concentration in mature boreal Norway spruce. <i>Plant, Cell and Environment</i> , 2018, 41, 300-313.	5.7	40
34	Source-sink balance of wheat determines responsiveness of grain production to increased [CO ₂] and water supply. <i>Agriculture, Ecosystems and Environment</i> , 2008, 127, 215-222.	5.3	37
35	Northern Environment Predisposes Birches to Ozone Damage. <i>Plant Biology</i> , 2007, 9, 191-196.	3.8	36
36	Ozone impact on wheat in Europe, Asia and North America – A comparison. <i>Science of the Total Environment</i> , 2019, 664, 908-914.	8.0	36

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37	Influence of Dynamic Ozone Dry Deposition on Ozone Pollution. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032398.	3.3	34
38	Measuring and modelling stomatal conductance and photosynthesis in mature birch in Sweden. <i>Agricultural and Forest Meteorology</i> , 2005, 132, 115-131.	4.8	32
39	Water use by Swedish boreal forests in a changing climate. <i>Functional Ecology</i> , 2016, 30, 690-699.	3.6	31
40	Fertilizer efficiency in wheat is reduced by ozone pollution. <i>Science of the Total Environment</i> , 2017, 607-608, 876-880.	8.0	30
41	Nitrogen application is required to realize wheat yield stimulation by elevated CO ₂ but will not remove the CO ₂ -induced reduction in grain protein concentration. <i>Global Change Biology</i> , 2019, 25, 1868-1876.	9.5	30
42	Stomatal uptake of O ₃ in aspen and aspen-birch forests under free-air CO ₂ and O ₃ enrichment. <i>Environmental Pollution</i> , 2010, 158, 2023-2031.	7.5	29
43	Mycorrhiza Symbiosis Increases the Surface for Sunlight Capture in <i>Medicago truncatula</i> for Better Photosynthetic Production. <i>PLoS ONE</i> , 2015, 10, e0115314.	2.5	28
44	Limited thermal acclimation of photosynthesis in tropical montane tree species. <i>Global Change Biology</i> , 2021, 27, 4860-4878.	9.5	26
45	Weak vertical canopy gradients of photosynthetic capacities and stomatal responses in a fertile Norway spruce stand. <i>Oecologia</i> , 2013, 173, 1179-1189.	2.0	25
46	Measuring and modelling leaf diffusive conductance in juvenile silver birch, <i>Betula pendula</i> . <i>Trees - Structure and Function</i> , 2004, 18, 686-695.	1.9	23
47	Exposure to moderate concentrations of tropospheric ozone impairs tree stomatal response to carbon dioxide. <i>Environmental Pollution</i> , 2011, 159, 2350-2354.	7.5	23
48	Interacting effects of elevated CO ₂ and weather variability on photosynthesis of mature boreal Norway spruce agree with biochemical model predictions. <i>Tree Physiology</i> , 2012, 32, 1509-1521.	3.1	23
49	Stomatal CO ₂ responsiveness and photosynthetic capacity of tropical woody species in relation to taxonomy and functional traits. <i>Oecologia</i> , 2017, 184, 43-57.	2.0	23
50	A reporting format for leaf-level gas exchange data and metadata. <i>Ecological Informatics</i> , 2021, 61, 101232.	5.2	22
51	Complete or overcompensatory thermal acclimation of leaf dark respiration in African tropical trees. <i>New Phytologist</i> , 2021, 229, 2548-2561.	7.3	18
52	Handling the heat – photosynthetic thermal stress in tropical trees. <i>New Phytologist</i> , 2022, 233, 236-250.	7.3	17
53	Effects of ground surface permeability on the growth of urban linden trees. <i>Urban Ecosystems</i> , 2018, 21, 691-696.	2.4	16
54	Climate Sensitivity of Tropical Trees Along an Elevation Gradient in Rwanda. <i>Forests</i> , 2018, 9, 647.	2.1	15

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55	Traits controlling shade tolerance in tropical montane trees. <i>Tree Physiology</i> , 2020, 40, 183-197.	3.1	14
56	Evaluation of simulated ozone effects in forest ecosystems against biomass damage estimates from fumigation experiments. <i>Biogeosciences</i> , 2018, 15, 6941-6957.	3.3	11
57	Temperature acclimation of net photosynthesis and its underlying component processes in four tropical tree species. <i>Tree Physiology</i> , 2022, 42, 1188-1202.	3.1	11
58	Warming Responses of Leaf Morphology Are Highly Variable among Tropical Tree Species. <i>Forests</i> , 2022, 13, 219.	2.1	11
59	Contrasting Dependencies of Photosynthetic Capacity on Leaf Nitrogen in Early- and Late-Successional Tropical Montane Tree Species. <i>Frontiers in Plant Science</i> , 2020, 11, 500479.	3.6	9
60	Changes in stomatal conductance and net photosynthesis during phenological development in spring wheat: implications for gas exchange modelling. <i>International Journal of Biometeorology</i> , 2006, 51, 37-48.	3.0	8
61	Combining carbon and oxygen isotopic signatures to identify ozone-induced declines in tree water-use efficiency. <i>Tree Physiology</i> , 2021, 41, 2234-2244.	3.1	8
62	Stomatal and non-stomatal fluxes of ozone to a northern mixed hardwood forest. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007, 59, .	1.6	8
63	Evidence for Impacts of Near-ambient Ozone Concentrations on Vegetation in Southern Sweden. <i>Ambio</i> , 2009, 38, 425-432.	5.5	7
64	Genetic controls of short- and long-term stomatal CO ₂ responses in <i>Arabidopsis thaliana</i> . <i>Annals of Botany</i> , 2020, 126, 179-190.	2.9	7
65	Letter to the editor regarding Pleijel et al. 2019: Ozone sensitivity of wheat in different continents – An addendum. <i>Science of the Total Environment</i> , 2021, 773, 146335.	8.0	7
66	To what extent do molecular collisions arising from water vapour efflux impede stomatal O ₃ influx?. <i>Environmental Pollution</i> , 2012, 170, 39-42.	7.5	4