

Giacomo Al Gerosa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4958313/publications.pdf>

Version: 2024-02-01

88
papers

3,315
citations

136740

32
h-index

161609

54
g-index

101
all docs

101
docs citations

101
times ranked

3653
citing authors

#	ARTICLE	IF	CITATIONS
1	Size-segregated aerosol fluxes, deposition velocities, and chemical composition in an Alpine valley. <i>Atmospheric Research</i> , 2022, 268, 105995.	1.8	4
2	Assessment of Integrated Aerosol Sampling Techniques in Indoor, Confined and Outdoor Environments Characterized by Specific Emission Sources. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4360.	1.3	2
3	Ammonia, nitrous oxide, carbon dioxide, and water vapor fluxes after green manuring of faba bean under Mediterranean climate. <i>Agriculture, Ecosystems and Environment</i> , 2021, 315, 107439.	2.5	11
4	Method comparison of indirect assessments of understory leaf area index (LAI): A case study across the extended network of ICOS forest ecosystem sites in Europe. <i>Ecological Indicators</i> , 2021, 128, 107841.	2.6	12
5	Retrieval and validation of forest background reflectivity from daily Moderate Resolution Imaging Spectroradiometer (MODIS) bidirectional reflectance distribution function (BRDF) data across European forests. <i>Biogeosciences</i> , 2021, 18, 621-635.	1.3	12
6	Selection of chlorophyll fluorescence parameters as indicators of photosynthetic efficiency in large scale plant ecological studies. <i>Ecological Indicators</i> , 2020, 108, 105686.	2.6	77
7	Introducing the Bulletin of Atmospheric Science and Technology. <i>Bulletin of Atmospheric Science and Technology</i> , 2020, 1, 1-11.	0.4	2
8	Selection of tree species for forests under climate change: is PSI functioning a better predictor for net photosynthesis and growth than PSII?. <i>Tree Physiology</i> , 2020, 40, 1561-1571.	1.4	12
9	Dry Deposition of Ozone Over Land: Processes, Measurement, and Modeling. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000670.	9.0	86
10	Neural Network Analysis to Evaluate Ozone Damage to Vegetation Under Different Climatic Conditions. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	1.0	6
11	Vegetation feedbacks during drought exacerbate ozone air pollution extremes in Europe. <i>Nature Climate Change</i> , 2020, 10, 444-451.	8.1	96
12	A Site-Specific Analysis of the Implications of a Changing Ozone Profile and Climate for Stomatal Ozone Fluxes in Europe. <i>Water, Air, and Soil Pollution</i> , 2019, 230, 1.	1.1	9
13	Size-resolved aerosol fluxes above a broadleaved deciduous forest. <i>Agricultural and Forest Meteorology</i> , 2019, 279, 107757.	1.9	5
14	Site- and house-specific and meteorological factors influencing exchange of particles between outdoor and indoor domestic environments. <i>Building and Environment</i> , 2019, 160, 106181.	3.0	10
15	Assessing the Impact of Ozone on Forest Trees in An Integrative Perspective: Are Foliar Visible Symptoms Suitable Predictors for Growth Reduction? A Critical Review. <i>Forests</i> , 2019, 10, 1144.	0.9	14
16	Scarce evidence of ozone effect on recent health and productivity of alpine forests—a case study in Trentino, N. Italy. <i>Environmental Science and Pollution Research</i> , 2018, 25, 8217-8232.	2.7	15
17	Increased nitrogen wet deposition triggers negative effects of ozone on the biomass production of <i>Carpinus betulus</i> L. young trees. <i>Environmental and Experimental Botany</i> , 2018, 152, 128-136.	2.0	22
18	Characterization of ozone deposition to a mixed oak—hornbeam forest — flux measurements at five levels above and inside the canopy and their interactions with nitric oxide. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17945-17961.	1.9	19

#	ARTICLE	IF	CITATIONS
19	Evaluation of simulated ozone effects in forest ecosystems against biomass damage estimates from fumigation experiments. <i>Biogeosciences</i> , 2018, 15, 6941-6957.	1.3	11
20	Dose-response relationships for ozone effect on the growth of deciduous broadleaf oaks in mediterranean environment. <i>Atmospheric Environment</i> , 2018, 190, 331-341.	1.9	6
21	Tropospheric Ozone Assessment Report: Present-day tropospheric ozone distribution and trends relevant to vegetation. <i>Elementa</i> , 2018, 6, .	1.1	212
22	A dose-response relationship for marketable yield reduction of two lettuce (<i>Lactuca sativa</i> L.) cultivars exposed to tropospheric ozone in Southern Europe. <i>Environmental Science and Pollution Research</i> , 2017, 24, 26249-26258.	2.7	12
23	The ozone-like syndrome in durum wheat (<i>Triticum durum</i> Desf.): Mechanisms underlying the different symptomatic responses of two sensitive cultivars. <i>Plant Physiology and Biochemistry</i> , 2017, 112, 261-269.	2.8	24
24	Ecological impacts of atmospheric pollution and interactions with climate change in terrestrial ecosystems of the Mediterranean Basin: Current research and future directions. <i>Environmental Pollution</i> , 2017, 227, 194-206.	3.7	98
25	Ozone risk assessment for an Alpine larch forest in two vegetative seasons with different approaches: comparison of POD1 and AOT40. <i>Environmental Science and Pollution Research</i> , 2017, 24, 26238-26248.	2.7	7
26	(E)merging directions on air pollution and climate change research in Mediterranean Basin ecosystems. <i>Environmental Science and Pollution Research</i> , 2017, 24, 26155-26159.	2.7	3
27	Vertical Ozone Gradients above Forests. Comparison of Different Calculation Options with Direct Ozone Measurements above a Mature Forest and Consequences for Ozone Risk Assessment. <i>Forests</i> , 2017, 8, 337.	0.9	12
28	Integrated study through LCA, ELCC analysis and air quality modelling related to the adoption of high efficiency small scale pellet boilers. <i>Biomass and Bioenergy</i> , 2016, 90, 262-272.	2.9	20
29	Field evaluation combined with modelling analysis to study fertilizer and tillage as factors affecting N ₂ O emissions: A case study in the Po valley (Northern Italy). <i>Agriculture, Ecosystems and Environment</i> , 2016, 225, 72-85.	2.5	25
30	Long-term measurements of NO _x and O ₃ soil fluxes in a temperate deciduous forest. <i>Agricultural and Forest Meteorology</i> , 2016, 228-229, 205-216.	1.9	17
31	Evaluating stomatal ozone fluxes in WRF-Chem: Comparing ozone uptake in Mediterranean ecosystems. <i>Atmospheric Environment</i> , 2016, 143, 237-248.	1.9	20
32	Characterization of total ecosystem-scale biogenic VOC exchange at a Mediterranean oak-hornbeam forest. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7171-7194.	1.9	24
33	Biomass and physiological responses of <i>Quercus robur</i> (L.) young trees during 2Â years of treatments with different levels of ozone and nitrogen wet deposition. <i>Trees - Structure and Function</i> , 2016, 30, 1995-2010.	0.9	20
34	Early physiological responses of <i>Pinus pinea</i> L. seedlings infected by <i>Heterobasidion</i> sp.pl. in an ozone-enriched atmospheric environment. <i>Tree Physiology</i> , 2015, 35, 331-340.	1.4	12
35	A flux-based assessment of above and below ground biomass of Holm oak (<i>Quercus ilex</i> L.) seedlings after one season of exposure to high ozone concentrations. <i>Atmospheric Environment</i> , 2015, 113, 41-49.	1.9	35
36	New flux based dose-response relationships for ozone for European forest tree species. <i>Environmental Pollution</i> , 2015, 206, 163-174.	3.7	106

#	ARTICLE	IF	CITATIONS
37	Varietal screening of ozone sensitivity in Mediterranean durum wheat (<i>Triticum durum</i> , Desf.). <i>Atmospheric Environment</i> , 2015, 110, 18-26.	1.9	23
38	Some remarks on "New functions for estimating AOT40 from ozone passive sampling" by De Marco et al. (2014). <i>Atmospheric Environment</i> , 2014, 98, 707-710.	1.9	3
39	Photosynthetic performance and biochemical adjustments in two co-occurring Mediterranean evergreens, <i>Quercus ilex</i> and <i>Arbutus unedo</i> , differing in salt-exclusion ability. <i>Functional Plant Biology</i> , 2014, 41, 391.	1.1	16
40	Setting ozone critical levels for protecting horticultural Mediterranean crops: Case study of tomato. <i>Environmental Pollution</i> , 2014, 185, 178-187.	3.7	30
41	Contrasting effects of water salinity and ozone concentration on two cultivars of durum wheat (<i>Triticum durum</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 19	3.7	19
42	Severe drought events increase the sensitivity to ozone on poplar clones. <i>Environmental and Experimental Botany</i> , 2014, 100, 94-104.	2.0	50
43	Responses to ozone on Populus "Oxford" clone in an open top chamber experiment assessed before sunrise and in full sunlight. <i>Photosynthetica</i> , 2013, 51, 267-280.	0.9	22
44	Intra-annual Pattern of Photosynthesis, Growth and Stable Isotope Partitioning in a Poplar Clone Subjected to Ozone and Water Stress. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	13
45	Assessing Present and Future Ozone Hazards to Natural Forests in the Alpine Area " Comparison of a Wide Scale Mapping Technique with Local Passive Sampler Measurements. , 2013, , .		1
46	Case Study: Valle Camonica and the Adamello Park. , 2013, , .		3
47	Short and long term photosynthetic adjustments in sun and shade leaves of <i>Fagus sylvatica</i> L., investigated by fluorescence transient (FT) analysis. <i>Plant Biosystems</i> , 2012, 146, 206-216.	0.8	34
48	Chlorophyll a fluorescence analysis along a vertical gradient of the crown in a poplar (Oxford) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302	1.4	47
49	A simple linear model for estimating ozone AOT40 at forest sites from raw passive sampling data. <i>Journal of Environmental Monitoring</i> , 2012, 14, 2238.	2.1	11
50	Errors in ozone risk assessment using standard conditions for converting ozone concentrations obtained by passive samplers in mountain regions. <i>Journal of Environmental Monitoring</i> , 2012, 14, 1703.	2.1	8
51	Evaluation of the uncertainty in the ozone flux effect modelling: From the experiments to the dose-response relationships. <i>Atmospheric Environment</i> , 2012, 54, 44-52.	1.9	12
52	Ozone stress in woody plants assessed with chlorophyll a fluorescence. A critical reassessment of existing data. <i>Environmental and Experimental Botany</i> , 2011, 73, 19-30.	2.0	117
53	Conclusive remarks. Reliability and comparability of chlorophyll fluorescence data from several field teams. <i>Environmental and Experimental Botany</i> , 2011, 73, 116-119.	2.0	21
54	Gas exchange and JIP-test parameters of two Mediterranean maquis species are affected by sea spray and ozone interaction. <i>Environmental and Experimental Botany</i> , 2011, 73, 80-88.	2.0	24

#	ARTICLE	IF	CITATIONS
55	Growth and physiological responses to ozone and mild drought stress of tree species with different ecological requirements. <i>Trees - Structure and Function</i> , 2010, 24, 695-704.	0.9	36
56	Early Events in <i>Populus</i> Hybrid and <i>Fagus sylvatica</i> Leaves Exposed to Ozone. <i>Scientific World Journal</i> , The, 2010, 10, 512-527.	0.8	11
57	Interactions among vegetation and ozone, water and nitrogen fluxes in a coastal Mediterranean maquis ecosystem. <i>Biogeosciences</i> , 2009, 6, 1783-1798.	1.3	19
58	Atmospheric composition change: Ecosystems' Atmosphere interactions. <i>Atmospheric Environment</i> , 2009, 43, 5193-5267.	1.9	609
59	Nutritional Traits of Bean (<i>Phaseolus vulgaris</i>) Seeds from Plants Chronically Exposed to Ozone Pollution. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 201-208.	2.4	41
60	Comparison of seasonal variations of ozone exposure and fluxes in a Mediterranean Holm oak forest between the exceptionally dry 2003 and the following year. <i>Environmental Pollution</i> , 2009, 157, 1737-1744.	3.7	58
61	A flux-based assessment of the effects of ozone on foliar injury, photosynthesis, and yield of bean (<i>Phaseolus vulgaris</i> L. cv. Borlotto Nano Lingua di Fuoco) in open-top chambers. <i>Environmental Pollution</i> , 2009, 157, 1727-1736.	3.7	36
62	Validation of the stomatal flux approach for the assessment of ozone visible injury in young forest trees. Results from the TOP (transboundary ozone pollution) experiment at Curno, Italy. <i>Environmental Pollution</i> , 2009, 157, 1497-1505.	3.7	42
63	Visible leaf injury in young trees of <i>Fagus sylvatica</i> L. and <i>Quercus robur</i> L. in relation to ozone uptake and ozone exposure. An Open-Top Chambers experiment in South Alpine environmental conditions. <i>Environmental Pollution</i> , 2008, 152, 274-284.	3.7	44
64	Sensitivity analysis of a parameterization of the stomatal component of the DO3SE model for <i>Quercus ilex</i> to estimate ozone fluxes. <i>Environmental Pollution</i> , 2008, 155, 473-480.	3.7	43
65	Ozone fluxes and foliar injury development in the ozone-sensitive poplar clone Oxford (<i>Populus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock	1.4	38
66	Challenges in Understanding the Risks to Natural and Semi-Natural Vegetation from Ozone Exposure. <i>Italian Journal of Agronomy</i> , 2008, 3, 53.	0.4	1
67	Ozone Flux Measurement and Modelling on Leaf/Shoot and Canopy Scale. <i>Italian Journal of Agronomy</i> , 2008, 3, 21.	0.4	1
68	Ozone Effects on Fruit Productivity and Photosynthetic Response of Two Tomato Cultivars in Relation to Stomatal Fluxes. <i>Italian Journal of Agronomy</i> , 2008, 3, 61.	0.4	9
69	Estimates of ozone AOT40 from passive sampling in forest sites in South-Western Europe. <i>Environmental Pollution</i> , 2007, 145, 629-635.	3.7	51
70	Robustness of modelled ozone exposures and doses. <i>Environmental Pollution</i> , 2007, 146, 578-586.	3.7	50
71	Measuring, modelling and testing ozone exposure, flux and effects on vegetation in southern European conditions' What does not work? A review from Italy. <i>Environmental Pollution</i> , 2007, 146, 648-658.	3.7	67
72	Photosynthesis responses to ozone in young trees of three species with different sensitivities, in a 2-year open-top chamber experiment (Curno, Italy). <i>Physiologia Plantarum</i> , 2007, 130, 122-135.	2.6	43

#	ARTICLE	IF	CITATIONS
73	Comparison of Different Algorithms for Stomatal Ozone Flux Determination from Micrometeorological Measurements. <i>Water, Air, and Soil Pollution</i> , 2007, 179, 309-321.	1.1	33
74	Sources of errors in assessing ozone visible symptoms on native vegetation. <i>Environmental Pollution</i> , 2006, 140, 257-268.	3.7	18
75	Ozone sensitivity of currant tomato (<i>Lycopersicon pimpinellifolium</i>), a potential bioindicator species. <i>Environmental Pollution</i> , 2006, 141, 275-282.	3.7	43
76	Ozone uptake by an evergreen Mediterranean Forest () in Italy. Part I: Micrometeorological flux measurements and flux partitioning. <i>Atmospheric Environment</i> , 2005, 39, 3255-3266.	1.9	94
77	Ozone uptake by an evergreen mediterranean forest (L.) in Italyâ€”Part II: flux modelling. Upscaling leaf to canopy ozone uptake by a process-based model. <i>Atmospheric Environment</i> , 2005, 39, 3267-3278.	1.9	33
78	Leaf morphology and chemistry in <i>Fagus sylvatica</i> (beech) trees as affected by site factors and ozone: results from CONECOFOR permanent monitoring plots in Italy. <i>Tree Physiology</i> , 2005, 25, 211-219.	1.4	60
79	Modeling seasonal ozone fluxes to grassland and wheat: model improvement, testing, and application. <i>Atmospheric Environment</i> , 2004, 38, 2349-2359.	1.9	41
80	Stomatal ozone fluxes over a barley field in Italy. â€œEffective exposureâ€•as a possible link between exposure- and flux-based approaches. <i>Atmospheric Environment</i> , 2004, 38, 2421-2432.	1.9	48
81	Crown condition surveys in Italian forests: issues in reporting findings. <i>Environmental Monitoring and Assessment</i> , 2003, 85, 221-238.	1.3	9
82	Micrometeorological determination of time-integrated stomatal ozone fluxes over wheat: a case study in Northern Italy. <i>Atmospheric Environment</i> , 2003, 37, 777-788.	1.9	50
83	Foliar response of an <i>Ailanthus altissima</i> clone in two sites with different levels of ozone-pollution. <i>Environmental Pollution</i> , 2003, 121, 137-146.	3.7	62
84	Ozone sensitivity of <i>Fagus sylvatica</i> and <i>Fraxinus excelsior</i> young trees in relation to leaf structure and foliar ozone uptake. <i>Environmental Pollution</i> , 2003, 125, 91-98.	3.7	59
85	Ozone Risk Assessment and Mapping in the Alps Based on Data from Passive Samplers. <i>Scientific World Journal</i> , The, 2002, 2, 1023-1035.	0.8	9
86	Techniques of Ozone Monitoring in a Mountain Forest Region: Passive and Continuous Sampling, Vertical and Canopy Profiles. <i>Scientific World Journal</i> , The, 2001, 1, 612-626.	0.8	7
87	Tropospheric Ozone in Alpine Forest Sites: Air Quality Monitoring and Statistical Data Analysis. <i>Water, Air, and Soil Pollution</i> , 1999, 116, 345-350.	1.1	13
88	Ozone Fluxes to a Larch Forest Ecosystem at the Timberline in the Italian Alps. , 0, , .		2