

# Silvano Fares

## List of Publications by Year in descending order

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115  
papers

5,960  
citations

81743

39  
h-index

82410

72  
g-index

137  
all docs

137  
docs citations

137  
times ranked

6783  
citing authors

#	ARTICLE	IF	CITATIONS
1	New Evidence for the Importance of Non-Stomatal Pathways in Ozone Deposition During Extreme Heat and Dry Anomalies. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	4
2	Significant Loss of Ecosystem Services by Environmental Changes in the Mediterranean Coastal Area. <i>Forests</i> , 2022, 13, 689.	0.9	4
3	Assessment of Air Quality and Meteorological Changes Induced by Future Vegetation in Madrid. <i>Forests</i> , 2022, 13, 690.	0.9	5
4	Towards long-term sustainability of stomatal ozone flux monitoring at forest sites. , 2022, 2, 100018.		12
5	A revised dry deposition scheme for land-atmosphere exchange of trace gases in ECHAM/MESSy v2.54. <i>Geoscientific Model Development</i> , 2021, 14, 495-519.	1.3	11
6	Editorial: Interactions Between Ozone Pollution and Forest Ecosystems. <i>Frontiers in Forests and Global Change</i> , 2021, 3, .	1.0	4
7	Warming homogenizes apparent temperature sensitivity of ecosystem respiration. <i>Science Advances</i> , 2021, 7, .	4.7	28
8	Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. <i>Agricultural and Forest Meteorology</i> , 2021, 301-302, 108350.	1.9	125
9	Method comparison of indirect assessments of understory leaf area index (LAI <sub>u</sub> ): A case study across the extended network of ICOS forest ecosystem sites in Europe. <i>Ecological Indicators</i> , 2021, 128, 107841.	2.6	12
10	FORCASTs: Importance of Stomatal Conductance Parameterization to Estimated Ozone Deposition Velocity. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002581.	1.3	6
11	Exploring new strategies for ozone-risk assessment: A dynamic-threshold case study. <i>Environmental Pollution</i> , 2021, 287, 117620.	3.7	6
12	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
13	Economic and Life Cycle Analysis of Passive and Active Monitoring of Ozone for Forest Protection. <i>Environments - MDPI</i> , 2021, 8, 104.	1.5	0
14	Water use strategy affects avoidance of ozone stress by stomatal closure in Mediterranean trees—a modelling analysis. <i>Plant, Cell and Environment</i> , 2020, 43, 611-623.	2.8	33
15	Ozone impairs the response of isoprene emission to foliar nitrogen and phosphorus in poplar. <i>Environmental Pollution</i> , 2020, 267, 115679.	3.7	2
16	More nature in the city. <i>Plant Biosystems</i> , 2020, 154, 1003-1006.	0.8	21
17	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020, 7, 225.	2.4	646
18	Testing Removal of Carbon Dioxide, Ozone, and Atmospheric Particles by Urban Parks in Italy. <i>Environmental Science &amp; Technology</i> , 2020, 54, 14910-14922.	4.6	23

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19	Epidemiological derivation of flux-based critical levels for visible ozone injury in European forests. <i>Journal of Forestry Research</i> , 2020, 31, 1509-1519.	1.7	35
20	Current and future impacts of drought and ozone stress on Northern Hemisphere forests. <i>Global Change Biology</i> , 2020, 26, 6218-6234.	4.2	20
21	Altered energy partitioning across terrestrial ecosystems in the European drought year 2018. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190524.	1.8	35
22	Sensitivity of gross primary productivity to climatic drivers during the summer drought of 2018 in Europe. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190747.	1.8	71
23	Influence of Dynamic Ozone Dry Deposition on Ozone Pollution. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032398.	1.2	34
24	Response of isoprene emission from poplar saplings to ozone pollution and nitrogen deposition depends on leaf position along the vertical canopy profile. <i>Environmental Pollution</i> , 2020, 265, 114909.	3.7	10
25	Dry Deposition of Ozone Over Land: Processes, Measurement, and Modeling. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000670.	9.0	86
26	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
27	Toward stomatalâ€flux based forest protection against ozone: The MOTTLES approach. <i>Science of the Total Environment</i> , 2019, 691, 516-527.	3.9	38
28	Exploring Nonlinear Intra-Annual Growth Dynamics in <i>Fagus sylvatica</i> L. Trees at the Italian ICP-Forests Level II Network. <i>Forests</i> , 2019, 10, 584.	0.9	3
29	Sensitivity of Ozone Dry Deposition to Ecosystemâ€Atmosphere Interactions: A Critical Appraisal of Observations and Simulations. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1264-1288.	1.9	33
30	The Interplay Between Ozone and Urban Vegetationâ€BVOC Emissions, Ozone Deposition, and Tree Ecophysiology. <i>Frontiers in Forests and Global Change</i> , 2019, 2, .	1.0	72
31	Ecophysiological Responses to Rainfall Variability in Grassland and Forests Along a Latitudinal Gradient in Italy. <i>Frontiers in Forests and Global Change</i> , 2019, 2, .	1.0	9
32	Ozone-induced impairment of night-time stomatal closure in O <sub>3</sub> -sensitive poplar clone is affected by nitrogen but not by phosphorus enrichment. <i>Science of the Total Environment</i> , 2019, 692, 713-722.	3.9	24
33	Ozone and particle fluxes in a Mediterranean forest predicted by the AIRTREE model. <i>Science of the Total Environment</i> , 2019, 682, 494-504.	3.9	17
34	Effect of Long-Term vs. Short-Term Ambient Ozone Exposure on Radial Stem Growth, Sap Flux and Xylem Morphology of O <sub>3</sub> -Sensitive Poplar Trees. <i>Forests</i> , 2019, 10, 396.	0.9	14
35	A New Wetness Index to Evaluate the Soil Water Availability Influence on Gross Primary Production of European Forests. <i>Climate</i> , 2019, 7, 42.	1.2	4
36	Towards an integrative approach to evaluate the environmental ecosystem services provided by urban forest. <i>Journal of Forestry Research</i> , 2019, 30, 1981-1996.	1.7	73

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37	Ozone flux and ozone deposition in a mountain spruce forest are modulated by sky conditions. <i>Science of the Total Environment</i> , 2019, 672, 296-304.	3.9	22
38	Impacts of air pollution on human and ecosystem health, and implications for the National Emission Ceilings Directive: Insights from Italy. <i>Environment International</i> , 2019, 125, 320-333.	4.8	113
39	Isoprene is more affected by climate drivers than monoterpenes: A meta-analytic review on plant isoprenoid emissions. <i>Plant, Cell and Environment</i> , 2019, 42, 1939-1949.	2.8	72
40	Cross-talk between physiological and biochemical adjustments by <i>Punica granatum</i> cv. Dente di cavallo mitigates the effects of salinity and ozone stress. <i>Science of the Total Environment</i> , 2019, 656, 589-597.	3.9	24
41	The green side of the grey: Assessing greenspaces in built-up areas of Italy. <i>Urban Forestry and Urban Greening</i> , 2019, 37, 147-153.	2.3	19
42	An objective image analysis method for estimation of canopy attributes from digital cover photography. <i>Trees - Structure and Function</i> , 2018, 32, 713-723.	0.9	22
43	Plants for Sustainable Improvement of Indoor Air Quality. <i>Trends in Plant Science</i> , 2018, 23, 507-512.	4.3	95
44	Modeling ozone uptake by urban and peri-urban forest: a case study in the Metropolitan City of Rome. <i>Environmental Science and Pollution Research</i> , 2018, 25, 8190-8205.	2.7	9
45	Ozone flux in plant ecosystems: new opportunities for long-term monitoring networks to deliver ozone-risk assessments. <i>Environmental Science and Pollution Research</i> , 2018, 25, 8240-8248.	2.7	17
46	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
47	Synthetic ozone deposition and stomatal uptake at flux tower sites. <i>Biogeosciences</i> , 2018, 15, 5395-5413.	1.3	22
48	Stomatal conductance models for ozone risk assessment at canopy level in two Mediterranean evergreen forests. <i>Agricultural and Forest Meteorology</i> , 2017, 234-235, 212-221.	1.9	40
49	Characterizing potential wildland fire fuel in live vegetation in the Mediterranean region. <i>Annals of Forest Science</i> , 2017, 74, 1.	0.8	65
50	Carbon Sequestration by Urban Trees. <i>Future City</i> , 2017, , 31-39.	0.2	16
51	Species-Specific Information for Enhancing Ecosystem Services. <i>Future City</i> , 2017, , 111-144.	0.2	3
52	Urban Trees and Their Relation to Air Pollution. <i>Future City</i> , 2017, , 21-30.	0.2	13
53	A sampling design strategy to reduce survey costs in forest monitoring. <i>Ecological Indicators</i> , 2017, 81, 182-191.	2.6	11
54	A spatially-explicit method to assess the dry deposition of air pollution by urban forests in the city of Florence, Italy. <i>Urban Forestry and Urban Greening</i> , 2017, 27, 221-234.	2.3	60

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55	Fluxes of biogenic volatile organic compounds above temperate Norway spruce forest of the Czech Republic. <i>Agricultural and Forest Meteorology</i> , 2017, 232, 500-513.	1.9	31
56	Isoprene emission potentials from European oak forests derived from canopy flux measurements: an assessment of uncertainties and inter-algorithm variability. <i>Biogeosciences</i> , 2017, 14, 5571-5594.	1.3	11
57	Sampling strategies for high quality time-series of climatic variables in forest resource assessment. <i>IForest</i> , 2017, 10, 739-745.	0.5	8
58	Rapid leaf development drives the seasonal pattern of volatile organic compound (VOC) fluxes in a "coppiced" bioenergy poplar plantation. <i>Plant, Cell and Environment</i> , 2016, 39, 539-555.	2.8	29
59	Removal of Ozone by Urban and Peri-Urban Forests: Evidence from Laboratory, Field, and Modeling Approaches. <i>Journal of Environmental Quality</i> , 2016, 45, 224-233.	1.0	26
60	Assessing the role of soil water limitation in determining the Phytotoxic Ozone Dose (PODY) thresholds. <i>Atmospheric Environment</i> , 2016, 147, 88-97.	1.9	39
61	Functional traits of urban trees: air pollution mitigation potential. <i>Frontiers in Ecology and the Environment</i> , 2016, 14, 543-550.	1.9	255
62	Environmental and biological controls on CH <sub>4</sub> exchange over an evergreen Mediterranean forest. <i>Agricultural and Forest Meteorology</i> , 2016, 226-227, 67-79.	1.9	28
63	Particle deposition in a peri-urban Mediterranean forest. <i>Environmental Pollution</i> , 2016, 218, 1278-1286.	3.7	33
64	Unmasking forest borderlines by an automatic delineation based on airborne laser scanner data. <i>International Journal of Remote Sensing</i> , 2016, 37, 3568-3583.	1.3	2
65	Interaction of drought and ozone exposure on isoprene emission from extensively cultivated poplar. <i>Plant, Cell and Environment</i> , 2016, 39, 2276-2287.	2.8	65
66	Canopy-scale flux measurements and bottom-up emission estimates of volatile organic compounds from a mixed oak and hornbeam forest in northern Italy. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7149-7170.	1.9	27
67	Early and late adjustments of the photosynthetic traits and stomatal density in <i>Quercus ilex</i> L. grown in an ozone-enriched environment. <i>Plant Biology</i> , 2016, 18, 13-21.	1.8	15
68	BVOC responses to realistic nitrogen fertilization and ozone exposure in silver birch. <i>Environmental Pollution</i> , 2016, 213, 988-995.	3.7	52
69	Impacts of soil moisture on de novo monoterpene emissions from European beech, Holm oak, Scots pine, and Norway spruce. <i>Biogeosciences</i> , 2015, 12, 177-191.	1.3	35
70	Sustainability: Five steps for managing Europe's forests. <i>Nature</i> , 2015, 519, 407-409.	18.7	77
71	Bidirectional Flux of Methyl Vinyl Ketone and Methacrolein in Trees with Different Isoprenoid Emission under Realistic Ambient Concentrations. <i>Environmental Science &amp; Technology</i> , 2015, 49, 7735-7742.	4.6	20
72	Isoprenoid emissions by the Mediterranean vegetation in Castelporziano. <i>Rendiconti Lincei</i> , 2015, 26, 493-498.	1.0	6

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73	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
74	Atmospheric benzenoid emissions from plants rival those from fossil fuels. <i>Scientific Reports</i> , 2015, 5, 12064.	1.6	104
75	Particulate matter and meteorological conditions in Castelporziano forest: a brief commentary. <i>Rendiconti Lincei</i> , 2015, 26, 269-273.	1.0	3
76	Comparing i-Tree modeled ozone deposition with field measurements in a periurban Mediterranean forest. <i>Environmental Pollution</i> , 2014, 195, 202-209.	3.7	28
77	Bidirectional exchange of biogenic volatiles with vegetation: emission sources, reactions, breakdown and deposition. <i>Plant, Cell and Environment</i> , 2014, 37, 1790-1809.	2.8	107
78	A highly spatially resolved GIS-based model to assess the isoprenoid emissions from key Italian ecosystems. <i>Atmospheric Environment</i> , 2014, 96, 50-60.	1.9	15
79	Simultaneous measurements of above and below canopy ozone fluxes help partitioning ozone deposition between its various sinks in a Mediterranean Oak Forest. <i>Agricultural and Forest Meteorology</i> , 2014, 198-199, 181-191.	1.9	68
80	Environmental controls on ozone fluxes in a poplar plantation in Western Europe. <i>Environmental Pollution</i> , 2014, 184, 201-210.	3.7	31
81	Emissions of terpenoids, benzenoids, and other biogenic gas-phase organic compounds from agricultural crops and their potential implications for air quality. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 5393-5413.	1.9	43
82	Biogenic volatile organic compound emissions during BEARPEX 2009 measured by eddy covariance and flux-gradient similarity methods. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 231-244.	1.9	27
83	Role of Biogenic Volatile Organic Compounds (BVOC) emitted by urban trees on ozone concentration in cities: A review. <i>Environmental Pollution</i> , 2013, 183, 71-80.	3.7	321
84	Observations of Diurnal to Weekly Variations of Monoterpene-Dominated Fluxes of Volatile Organic Compounds from Mediterranean Forests: Implications for Regional Modeling. <i>Environmental Science &amp; Technology</i> , 2013, 47, 11073-11082.	4.6	44
85	Biogenic Volatile Organic Compounds and Their Impacts on Biosphere-Atmosphere Interactions. <i>Developments in Environmental Science</i> , 2013, 13, 57-75.	0.5	12
86	Tropospheric ozone reduces carbon assimilation in trees: estimates from analysis of continuous flux measurements. <i>Global Change Biology</i> , 2013, 19, 2427-2443.	4.2	95
87	Testing of models of stomatal ozone fluxes with field measurements in a mixed Mediterranean forest. <i>Atmospheric Environment</i> , 2013, 67, 242-251.	1.9	54
88	Active Atmosphere-Ecosystem Exchange of the Vast Majority of Detected Volatile Organic Compounds. <i>Science</i> , 2013, 341, 643-647.	6.0	211
89	Eddy covariance emission and deposition flux measurements using proton transfer reaction time-of-flight mass spectrometry (PTR-TOF-MS): comparison with PTR-MS measured vertical gradients and fluxes. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1439-1456.	1.9	59
90	Seasonal cycles of biogenic volatile organic compound fluxes and concentrations in a California citrus orchard. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 9865-9880.	1.9	49

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91	Within-plant isoprene oxidation confirmed by direct emissions of oxidation products methyl vinyl ketone and methacrolein. <i>Global Change Biology</i> , 2012, 18, 973-984.	4.2	107
92	Ozone deposition to an orange orchard: Partitioning between stomatal and non-stomatal sinks. <i>Environmental Pollution</i> , 2012, 169, 258-266.	3.7	74
93	CHEMICAL VARIABILITY OF WILD ROSMARINUS OFFICINALIS L. FROM ALGERIA. <i>Acta Horticulturae</i> , 2011, , 103-108.	0.1	0
94	Influence of growth temperature and measuring temperature on isoprene emission, diffusive limitations of photosynthesis and respiration in hybrid poplars. <i>Atmospheric Environment</i> , 2011, 45, 155-161.	1.9	30
95	Biogenic emissions from Citrus species in California. <i>Atmospheric Environment</i> , 2011, 45, 4557-4568.	1.9	53
96	Volatile emissions and phenolic compound concentrations along a vertical profile of <i>Populus nigra</i> leaves exposed to realistic ozone concentrations. <i>Photosynthesis Research</i> , 2010, 104, 61-74.	1.6	58
97	Ozone uptake by citrus trees exposed to a range of ozone concentrations. <i>Atmospheric Environment</i> , 2010, 44, 3404-3412.	1.9	41
98	Determinants of ozone fluxes and metrics for ozone risk assessment in plants. <i>Journal of Experimental Botany</i> , 2010, 61, 629-633.	2.4	40
99	Sesquiterpenoid Emissions from Agricultural Crops: Correlations to Monoterpenoid Emissions and Leaf Terpene Content. <i>Environmental Science &amp; Technology</i> , 2010, 44, 3758-3764.	4.6	46
100	Ozone fluxes in a <i>Pinus ponderosa</i> ecosystem are dominated by non-stomatal processes: Evidence from long-term continuous measurements. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 420-431.	1.9	97
101	The ACCENT-VOCBAS field campaign on biosphere-atmosphere interactions in a Mediterranean ecosystem of Castelporziano (Rome): site characteristics, climatic and meteorological conditions, and eco-physiology of vegetation. <i>Biogeosciences</i> , 2009, 6, 1043-1058.	1.3	42
102	Concentrations and fluxes of biogenic volatile organic compounds above a Mediterranean macchia ecosystem in western Italy. <i>Biogeosciences</i> , 2009, 6, 1655-1670.	1.3	79
103	Volatile organic compounds from Italian vegetation and their interaction with ozone. <i>Environmental Pollution</i> , 2009, 157, 1478-1486.	3.7	108
104	Freezing tolerance in Algerian populations of <i>Atriplex halimus</i> and <i>Atriplex canescens</i> . <i>Spanish Journal of Agricultural Research</i> , 2009, 7, 672.	0.3	5
105	Physiological responses of <i>Quercus ilex</i> Leaves to Water Stress and Acute Ozone Exposure Under Controlled Conditions. <i>Water, Air, and Soil Pollution</i> , 2008, 189, 113-125.	1.1	35
106	Stomatal uptake and stomatal deposition of ozone in isoprene and monoterpene emitting plants. <i>Plant Biology</i> , 2008, 10, 44-54.	1.8	76
107	Isoprene emission and primary metabolism in <i>Phragmites australis</i> grown under different phosphorus levels. <i>Plant Biology</i> , 2008, 10, 38-43.	1.8	33
108	Isoprene and nitric oxide reduce damages in leaves exposed to oxidative stress. <i>Plant, Cell and Environment</i> , 2008, 31, 1882-1894.	2.8	64

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109	Ozone Effects on the Metabolism and the Antioxidant System of Poplar Leaves at Different Stages of Development. , 2008, , 1317-1321.		2
110	The use of branch enclosures to assess direct and indirect effects of elevated CO2 on photosynthesis, respiration and isoprene emission of Populus alba leaves. IForest, 2008, 1, 49-54.	0.5	2
111	Is Ozone Flux Inside Leaves Only a Damage Indicator? Clues from Volatile Isoprenoid Studies. Plant Physiology, 2007, 143, 1096-1100.	2.3	87
112	Structural Behaviour of Mortar-Less Interlocking Masonry System under Eccentric Compressive Loads. Advances in Structural Engineering, 2007, 10, 11-24.	1.2	18
113	The relationship between isoprene emission rate and dark respiration rate in white poplar (Populus Tj ETQq1 1 0.784314 rgBT/Overlo	2.8	79
114	Impact of high ozone on isoprene emission, photosynthesis and histology of developing Populus alba leaves directly or indirectly exposed to the pollutant. Physiologia Plantarum, 2006, 128, 456-465.	2.6	86
115	Physiological Responses of Forest Trees to Heat and Drought. Plant Biology, 2006, 8, 556-571.	1.8	379