Elena Paoletti

List of Publications by Year
in descending order

240 papers	10,808 citations	26610 56 h-index	42364 92 g-index
250 all docs	250 docs citations	250 times ranked	7802 citing authors

#	Article	IF	Citations
1	Atmospheric composition change: Ecosystemsâ€“Atmosphere interactions. Atmospheric Environment, 2009, 43, 5193-5267.	1.9	609
2	Amplified ozone pollution in cities during the COVID-19 lockdown. Science of the Total Environment, 2020, 735, 139542.	3.9	516
3	Functional traits of urban trees: air pollution mitigation potential. Frontiers in Ecology and the Environment, 2016, 14, 543-550.	1.9	255
4	Integrated effects of air pollution and climate change on forests: A northern hemisphere perspective. Environmental Pollution, 2007, 147, 438-445.	3.7	252
5	Impact of ozone on Mediterranean forests: A review. Environmental Pollution, 2006, 144, 463-474.	3.7	214
6	Tropospheric Ozone Assessment Report: Present-day tropospheric ozone distribution and trends relevant to vegetation. Elementa, 2018, 6, .	1.1	212
7	Ozone levels in European and USA cities are increasing more than at rural sites, while peak values are decreasing. Environmental Pollution, 2014, 192, 295-299.	3.7	207
8	Economic losses due to ozone impacts on human health, forest productivity and crop yield across China. Environment International, 2019, 131, 104966.	4.8	205
9	Does living in elevated CO 2 ameliorate tree response to ozone? A review on stomatal responses. Environmental Pollution, 2005, 137, 483-493.	3.7	197
10	Tropospheric ozone assessment report: Global ozone metrics for climate change, human health, and crop/ecosystem research. Elementa, 2018, 6, 1.	1.1	196
11	Promoting the O3 flux concept for European forest trees. Environmental Pollution, 2007, 146, 587-607.	3.7	182
12	Ozone affects plant, insect, and soil microbial communities: A threat to terrestrial ecosystems and biodiversity. Science Advances, 2020, 6, eabc1176.	4.7	181
13	Projected global ground-level ozone impacts on vegetation under different emission and climate scenarios. Atmospheric Chemistry and Physics, 2017, 17, 12177-12196.	1.9	164
14	Ozone pollution will compromise efforts to increase global wheat production. Global Change Biology, 2018, 24, 3560-3574.	4.2	163
15	Decrease in surface ozone concentrations at Mediterranean remote sites and increase in the cities. Atmospheric Environment, 2013, 79, 705-715.	1.9	150
16	Urban population exposure to air pollution in Europe over the last decades. Environmental Sciences Europe, 2021, 33, 28.	2.6	148
17	Occurrence of Phytophthora species in oak stands in Italy and their association with declining oak trees. Forest Pathology, 2002, 32, 19-28.	0.5	141
18	A metaâ€analysis on growth, physiological, and biochemical responses of woody species to groundâ€level ozone highlights the role of plant functional types. Plant, Cell and Environment, 2017, 40, 2369-2380.	2.8	141

#	Article	IF	Citations
19	Ozone exposure and stomatal sluggishness in different plant physiognomic classes. Environmental Pollution, 2010, 158, 2664-2671.	3.7	137
20	Toward a biologically significant and usable standard for ozone that will also protect plants. Environmental Pollution, 2007, 150, 85-95.	3.7	136
21	Should we see urban trees as effective solutions to reduce increasing ozone levels in cities?. Environmental Pollution, 2018, 243, 163-176.	3.7	119
22	Advances of air pollution science: From forest decline to multiple-stress effects on forest ecosystem services. Environmental Pollution, 2010, 158, 1986-1989.	3.7	116
23	Impacts of air pollution on human and ecosystem health, and implications for the National Emission Ceilings Directive: Insights from Italy. Environment International, 2019, 125, 320-333.	4.8	113
24	Ozone slows stomatal response to light and leaf wounding in a Mediterranean evergreen broadleaf, Arbutus unedo. Environmental Pollution, 2005, 134, 439-445.	3.7	111
25	Forests under climate change and air pollution: Gaps in understanding and future directions for research. Environmental Pollution, 2012, 160, 57-65.	3.7	108
26	Ethylenediurea (EDU): A research tool for assessment and verification of the effects of ground level ozone on plants under natural conditions. Environmental Pollution, 2011, 159, 3283-3293.	3.7	101
27	Ecological impacts of atmospheric pollution and interactions with climate change in terrestrial ecosystems of the Mediterranean Basin: Current research and future directions. Environmental Pollution, 2017, 227, 194-206.	3.7	98
28	Ecophysiological and biochemical strategies of response to ozone in Mediterranean evergreen broadleaf species. Atmospheric Environment, 2004, 38, 2247-2257.	1.9	97
29	Ozone and urban forests in Italy. Environmental Pollution, 2009, 157, 1506-1512.	3.7	97
30	Predicting the effect of ozone on vegetation via linear non-threshold (LNT), threshold and hormetic dose-response models. Science of the Total Environment, 2019, 649, 61-74.	3.9	97
31	An epidemiological assessment of stomatal ozone flux-based critical levels for visible ozone injury in Southern European forests. Science of the Total Environment, 2016, 541, 729-741.	3.9	96
32	Tropospheric ozone reduces carbon assimilation in trees: estimates from analysis of continuous flux measurements. Global Change Biology, 2013, 19, 2427-2443.	4.2	95
33	Ozone weekend effect in cities: Deep insights for urban air pollution control. Environmental Research, 2020, 191, 110193.	3.7	95
34	Ozone pollution threatens the production of major staple crops in East Asia. Nature Food, 2022, 3, 47-56.	6.2	93
35	Ozone-induced stomatal sluggishness changes carbon and water balance of temperate deciduous forests. Scientific Reports, 2015, 5, 9871.	1.6	89
36	Global topics and novel approaches in the study of air pollution, climate change and forest ecosystems. Environmental Pollution, 2016, 213, 977-987.	3.7	88

#	Article	IF	Citations
37	Nationwide ground-level ozone measurements in China suggest serious risks to forests. Environmental Pollution, 2018, 237, 803-813.	3.7	84
38	Comparing concentrationâ€based (AOT40) and stomatal uptake (PODY) metrics for ozone risk assessment to European forests. Global Change Biology, 2016, 22, 1608-1627.	4.2	83
39	Air quality impact of an urban park over time. Procedia Environmental Sciences, 2011, 4, 10-16.	1.3	77
40	Compaction by a forest machine affects soil quality and Quercus robur L. seedling performance in an experimental field. Forest Ecology and Management, 2017, 384, 406-414.	1.4	76
41	The Abiotic Urban Environment: Impact of Urban Growing Conditions on Urban Vegetation. , 2005, , 281-323.		74
42	Could the differences in O3 sensitivity between two poplar clones be related to a difference in antioxidant defense and secondary metabolic response to O3 influx?. Tree Physiology, 2008, 28, 1761-1772.	1.4	74
43	Water stress mitigates the negative effects of ozone on photosynthesis and biomass in poplar plants. Environmental Pollution, 2017, 230, 268-279.	3.7	73
44	Towards an integrative approach to evaluate the environmental ecosystem services provided by urban forest. Journal of Forestry Research, 2019, 30, 1981-1996.	1.7	73
45	Adaptation of forest ecosystems to air pollution and climate change: a global assessment on research priorities. IForest, 2011, 4, 44-48.	0.5	73
46	Use of the antiozonant ethylenediurea (EDU) in Italy: Verification of the effects of ambient ozone on crop plants and trees and investigation of EDU's mode of action. Environmental Pollution, 2009, 157, 1453-1460.	3.7	72
47	Isoprene is more affected by climate drivers than monoterpenes: A metaâ€analytic review on plant isoprenoid emissions. Plant, Cell and Environment, 2019, 42, 1939-1949.	2.8	72
48	A new-generation 3D ozone FACE (Free Air Controlled Exposure). Science of the Total Environment, 2017, 575, 1407-1414.	3.9	69
49	Simultaneous measurements of above and below canopy ozone fluxes help partitioning ozone deposition between its various sinks in a Mediterranean Oak Forest. Agricultural and Forest Meteorology, 2014, 198-199, 181-191.	1.9	68
50	Measuring, modelling and testing ozone exposure, flux and effects on vegetation in southern European conditionsâ€"What does not work? A review from Italy. Environmental Pollution, 2007, 146, 648-658.	3.7	67
51	Interaction of drought and ozone exposure on isoprene emission from extensively cultivated poplar. Plant, Cell and Environment, 2016, 39, 2276-2287.	2.8	65
52	Both ozone exposure and soil water stress are able to induce stomatal sluggishness. Environmental and Experimental Botany, 2013, 88, 19-23.	2.0	61
53	A spatially-explicit method to assess the dry deposition of air pollution by urban forests in the city of Florence, Italy. Urban Forestry and Urban Greening, 2017, 27, 221-234.	2.3	60
54	Why Should We Calculate Complex Indices of Ozone Exposure? Results from Mediterranean Background Sites. Environmental Monitoring and Assessment, 2007, 128, 19-30.	1.3	59

#	Article	IF	Citations
55	Air Pollution Removal by Green Infrastructures and Urban Forests in the City of Florence. Agriculture and Agricultural Science Procedia, 2016, 8, 243-251.	0.6	59
56	Structural and physiological responses to ozone in Manna ash (Fraxinus ornus L.) leaves of seedlings and mature trees under controlled and ambient conditions. Science of the Total Environment, 2009, 407, 1631-1643.	3.9	58
57	Comparison of calculated and measured foliar O3 flux in crop and forest species. Environmental Pollution, 2007, 146, 640-647.	3.7	57
58	Antioxidative responses of three oak species under ozone and water stress conditions. Science of the Total Environment, 2019, 647, 390-399.	3.9	53
59	BVOC responses to realistic nitrogen fertilization and ozone exposure in silver birch. Environmental Pollution, 2016, 213, 988-995.	3.7	52
60	Protection of ash (Fraxinus excelsior) trees from ozone injury by ethylenediurea (EDU): Roles of biochemical changes and decreased stomatal conductance in enhancement of growth. Environmental Pollution, 2008, 155, 464-472.	3.7	50
61	Deciduous shrubs for ozone bioindication: Hibiscus syriacus as an example. Environmental Pollution, 2009, 157, 865-870.	3.7	50
62	Estimation of the Allergenic Potential of Urban Trees and Urban Parks: Towards the Healthy Design of Urban Green Spaces of the Future. International Journal of Environmental Research and Public Health, 2019, 16, 1357.	1.2	49
63	Impacts of current ozone pollution on wheat yield in China as estimated with observed ozone, meteorology and day of flowering. Atmospheric Environment, 2019, 217, 116945.	1.9	48
64	Ozone impacts on forests.. CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources, 0, , .	0.6	46
65	O3 and O3+CO2 effects on a mediterranean evergreen broadleaf tree, holm oak (Quercus ilex L.). Chemosphere, 1998, 36, 801-806.	4.2	45
66	Resistance to water stress in seedlings of eight European provenances of Pinus halepensis Mill.. Annals of Forest Science, 2001, 58, 663-672.	0.8	42
67	Determinants of stomatal sluggishness in ozone-exposed deciduous tree species. Science of the Total Environment, 2014, 481, 453-458.	3.9	42
68	Metrics of ozone risk assessment for Southern European forests: Canopy moisture content as a potential plant response indicator. Atmospheric Environment, 2015, 120, 182-190.	1.9	42
69	Stomatal conductance models for ozone risk assessment at canopy level in two Mediterranean evergreen forests. Agricultural and Forest Meteorology, 2017, 234-235, 212-221.	1.9	40
70	Vehicle-induced compaction of forest soil affects plant morphological and physiological attributes: A meta-analysis. Forest Ecology and Management, 2020, 462, 118004.	1.4	40
71	Assessing the role of soil water limitation in determining the Phytotoxic Ozone Dose (PODY) thresholds. Atmospheric Environment, 2016, 147, 88-97.	1.9	39
72	Sensitivity of stomatal conductance to soil moisture: implications for tropospheric ozone. Atmospheric Chemistry and Physics, 2018, 18, 5747-5763.	1.9	39

#	Article	IF	Citations
73	Trends in tropospheric ozone concentrations and forest impact metrics in Europe over the time period 2000â€“2014. Journal of Forestry Research, 2021, 32, 543-551.	1.7	39
74	Effects of a three-year exposure to ambient ozone on biomass allocation in poplar using ethylenediurea. Environmental Pollution, 2013, 180, 299-303.	3.7	38
75	Global diurnal and nocturnal parameters of stomatal conductance in woody plants and major crops. Global Ecology and Biogeography, 2018, 27, 257-275.	2.7	38
76	Toward stomatalâ€“flux based forest protection against ozone: The MOTTLES approach. Science of the Total Environment, 2019, 691, 516-527.	3.9	38
77	High spatial resolution WRF-Chem model over Asia: Physics and chemistry evaluation. Atmospheric Environment, 2021, 244, 118004.	1.9	38
78	The first toxicological study of the antiozonant and research tool ethylene diurea (EDU) using a Lemna minor L. bioassay: Hints to its mode of action. Environmental Pollution, 2016, 213, 996-1006.	3.7	37
79	Can nutrient fertilization mitigate the effects of ozone exposure on an ozone-sensitive poplar clone?. Science of the Total Environment, 2019, 657, 340-350.	3.9	37
80	Impacts of soil moisture on de novo monoterpene emissions from European beech, Holm oak, Scots pine, and Norway spruce. Biogeosciences, 2015, 12, 177-191.	1.3	35
81	Olive Oil for Dressing Plant Leaves so as to Avoid O3 Injury. Water, Air, and Soil Pollution, 2016, 227, 1.	1.1	35
82	A quantitative assessment of hormetic responses of plants to ozone. Environmental Research, 2019, 176, 108527.	3.7	35
83	Epidemiological derivation of flux-based critical levels for visible ozone injury in European forests. Journal of Forestry Research, 2020, 31, 1509-1519.	1.7	35
84	Pre- and post-inoculation water stress affects Sphaeropsis sapinea canker length in Pinus halepensis seedlings. Forest Pathology, 2001, 31, 209-218.	0.5	34
85	Pollen Viability for Air Pollution Bio-Monitoring. Journal of Atmospheric Chemistry, 2004, 49, 149-159.	1.4	34
86	Ozone flux over a Norway spruce forest and correlation with net ecosystem production. Environmental Pollution, 2011, 159, 1024-1034.	3.7	34
87	Ozone risk assessment in three oak species as affected by soil water availability. Environmental Science and Pollution Research, 2018, 25, 8125-8136.	2.7	34
88	Physiological and biochemical responses of Quercus pubescens to air warming and drought on acidic and calcareous soils. Plant Biology, 2013, 15, 157-168.	1.8	33
89	Water use strategy affects avoidance of ozone stress by stomatal closure in Mediterranean treesâ€”A modelling analysis. Plant, Cell and Environment, 2020, 43, 611-623.	2.8	33
90	UV-B and Mediterranean forest species: Direct effects and ecological consequences. Environmental Pollution, 2005, 137, 372-379.	3.7	32

#	Article	IF	Citations
91	Parameterization of Zelkova serrata stomatal conductance model to estimate stomatal ozone uptake in Japan. Atmospheric Environment, 2012, 55, 271-278.	1.9	32
92	Emerging challenges of ozone impacts on asian plants: actions are needed to protect ecosystem health. Ecosystem Health and Sustainability, 2021, 7, .	1.5	32
93	Trends and inter-relationships of ground-level ozone metrics and forest health in Lithuania. Science of the Total Environment, 2019, 658, 1265-1277.	3.9	31
94	Ozone modelling and mapping for risk assessment: An overview of different approaches for human and ecosystems health. Environmental Research, 2022, 211, 113048.	3.7	31
95	Strategic roadmap to assess forest vulnerability under air pollution and climate change. Global Change Biology, 2022, 28, 5062-5085.	4.2	31
96	Phenylpropanoids are key players in the antioxidant defense to ozone of European ash, Fraxinus excelsior. Environmental Science and Pollution Research, 2018, 25, 8137-8147.	2.7	30
97	Commentary: EPA's proposed expansion of dose-response analysis is a positive step towards improving its ecological risk assessment. Environmental Pollution, 2019, 246, 566-570.	3.7	30
98	Different belowground responses to elevated ozone and soil water deficit in three European oak species (Quercus ilex, Q. pubescens and Q. robur). Science of the Total Environment, 2019, 651, 1310-1320.	3.9	30
99	Gravitational infusion of ethylenediurea (EDU) into trunks protected adult European ash trees (Fraxinus excelsior L.) from foliar ozone injury. Environmental Pollution, 2007, 145, 869-873.	3.7	29
100	Climate Change, Air Pollution and Global Challenges. Developments in Environmental Science, 2013, 13, 3-16.	0.5	29
101	Epidemiological analysis of ozone and nitrogen impacts on vegetation â€“ Critical evaluation and recommendations. Science of the Total Environment, 2017, 603-604, 785-792.	3.9	29
102	Effects of nitrogen and phosphorus imbalance on photosynthetic traits of poplar Oxford clone under ozone pollution. Journal of Plant Research, 2018, 131, 915-924.	1.2	29
103	Whole-Tree Water Use Efficiency Is Decreased by Ambient Ozone and Not Affected by O3-Induced Stomatal Sluggishness. PLoS ONE, 2012, 7, e39270.	1.1	29
104	Availability, accessibility, quality and comparability of monitoring data for European forests for use in air pollution and climate change science. IForest, 2011, 4, 162-166.	0.5	28
105	High doses of ethylene diurea (EDU) are not toxic to willow and act as nitrogen fertilizer. Science of the Total Environment, 2016, 566-567, 841-850.	3.9	27
106	Concentrationâ€•and fluxâ€based doseâ€“responses of isoprene emission from poplar leaves and plants exposed to an ozone concentration gradient. Plant, Cell and Environment, 2017, 40, 1960-1971.	2.8	27
107	Growing season extension affects ozone uptake by European forests. Science of the Total Environment, 2019, 669, 1043-1052.	3.9	27
108	Effects of long-term ambient ozone exposure on biomass and wood traits in poplar treated with ethylenediurea (EDU). Environmental Pollution, 2015, 206, 575-581.	3.7	26

#	Article	IF	Citations
109	Ozone risk assessment is affected by nutrient availability: Evidence from a simulation experiment under free air controlled exposure (FACE). Environmental Pollution, 2018, 238, 812-822.	3.7	26
110	Large variability in ambient ozone sensitivity across 19 ethylenediurea-treated Chinese cultivars of soybean is driven by total ascorbate. Journal of Environmental Sciences, 2018, 64, 10-22.	3.2	26
111	Modifications of the leaf surface structures of Quercus ilex L. in open, naturally CO2-enriched environments. Plant, Cell and Environment, 1998, 21, 1071-1075.	2.8	25
112	Early Responses to Acute Ozone Exposure in Two Fagus Sylvatica Clones Differing in Xeromorphic Adaptations: Photosynthetic and Stomatal Processes, Membrane and Epicuticular Characteristics. Environmental Monitoring and Assessment, 2007, 128, 93-108.	1.3	25
113	Why and how terrestrial plants exchange gases with air. Plant Biology, 2009, 11, 24-34.	1.8	25
114	Gene expression in snapbeans exposed to ozone and protected by ethylenediurea. Environmental Pollution, 2014, 193, 1-5.	3.7	25
115	Ozone and plants. Environmental Pollution, 2015, 202, 215-216.	3.7	25
116	Ozone-induced impairment of night-time stomatal closure in O3-sensitive poplar clone is affected by nitrogen but not by phosphorus enrichment. Science of the Total Environment, 2019, 692, 713-722.	3.9	24
117	Cross-talk between physiological and biochemical adjustments by Punica granatum cv. Dente di cavallo mitigates the effects of salinity and ozone stress. Science of the Total Environment, 2019, 656, 589-597.	3.9	24
118	Towards a transnational system of supersites for forest monitoring and research in Europe - an overview on present state and future recommendations. IForest, 2011, 4, 167-171.	0.5	23
119	Exposure- and flux-based assessment of ozone risk to sugarcane plants. Atmospheric Environment, 2018, 176, 252-260.	1.9	23
120	High spatial resolution ozone risk-assessment for Asian forests. Environmental Research Letters, 2020, 15, 104095.	2.2	23
121	Impacts of ethylenediurea (EDU) soil drench and foliar spray in Salix sachalinensis protection against O3-induced injury. Science of the Total Environment, 2016, 573, 1053-1062.	3.9	22
122	Testing a ratio of photosynthesis to O3 uptake as an index for assessing O3-induced foliar visible injury in poplar trees. Environmental Science and Pollution Research, 2018, 25, 8113-8124.	2.7	22
123	The role of plant phenology in stomatal ozone flux modeling. Global Change Biology, 2018, 24, 235-248.	4.2	22
124	Hyperspectral Reflectance of Light-Adapted Leaves Can Predict Both Dark- and Light-Adapted Chl Fluorescence Parameters, and the Effects of Chronic Ozone Exposure on Date Palm (Phoenix) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 137	1.8	22
125	Chronicvs.Short-Term Acute O3Exposure Effects on Nocturnal Transpiration in Two Californian Oaks. Scientific World Journal, The, 2007, 7, 134-140.	0.8	21
126	Effects of ozone (O3) and ethylenediurea (EDU) on the ecological stoichiometry of a willow grown in a free-air exposure system. Environmental Pollution, 2018, 238, 663-676.	3.7	21

#	Article	IF	Citations
127	Morphological and Physiological Damage by Surfactant-Polluted Seaspray on Pinus pinea and Pinus halepensis. Environmental Monitoring and Assessment, 2005, 105, 175-191.	1.3	20
128	Photosynthetic responses to elevated CO2 and O3 in Quercus ilex leaves at a natural CO2 spring. Environmental Pollution, 2007, 147, 516-524.	3.7	20
129	Bidirectional Flux of Methyl Vinyl Ketone and Methacrolein in Trees with Different Isoprenoid Emission under Realistic Ambient Concentrations. Environmental Science & Technology, 2015, 49, 7735-7742.	4.6	20
130	Intraspecific variation in sensitivity of winter wheat (Triticum aestivum L.) to ambient ozone in northern China as assessed by ethylenediurea (EDU). Environmental Science and Pollution Research, 2018, 25, 29208-29218.	2.7	20
131	Ethylenediurea (EDU) Affects the Growth of Ozone-Sensitive and Tolerant Ash (Fraxinus excelsior) Trees under Ambient O3Conditions. Scientific World Journal, The, 2007, 7, 128-133.	0.8	19
132	Geostatistics as a validation tool for setting ozone standards for durum wheat. Environmental Pollution, 2010, 158, 536-542.	3.7	19
133	Ozone exposure affects tree defoliation in a continental climate. Science of the Total Environment, 2017, 596-597, 396-404.	3.9	19
134	No significant interactions between nitrogen stimulation and ozone inhibition of isoprene emission in Cathay poplar. Science of the Total Environment, 2017, 601-602, 222-229.	3.9	19
135	Transcriptomic analysis of Pak Choi under acute ozone exposure revealed regulatory mechanism against ozone stress. BMC Plant Biology, 2017, 17, 236.	1.6	19
136	Challenges, gaps and opportunities in investigating the interactions of ozone pollution and plant ecosystems. Science of the Total Environment, 2020, 709, 136188.	3.9	19
137	Visible Foliar Injury and Physiological Responses to Ozone in Italian Provenances ofFraxinus excelsiorandF. ornus. Scientific World Journal, The, 2007, 7, 90-97.	0.8	18
138	Moving toward effective ozone flux assessment. Environmental Pollution, 2008, 156, 16-19.	3.7	18
139	Erratum to "Structural and physiological responses to ozone in Manna ash (Fraxinus ornus L.) leaves of seedlings and mature trees under controlled and ambient conditions". Science of the Total Environment, 2010, 408, 2014-2024.	3.9	18
140	Testing visible ozone injury within a Light Exposed Sampling Site as a proxy for ozone risk assessment for European forests. Journal of Forestry Research, 2021, 32, 1351-1359.	1.7	18
141	Five-year volume growth of European beech does not respond to ozone pollution in Italy. Environmental Science and Pollution Research, 2018, 25, 8233-8239.	2.7	17
142	Carbon Sequestration by Urban Trees. Future City, 2017, , 31-39.	0.2	16
143	Ozoneâ€induced stomatal sluggishness changes stomatal parameters of Jarvisâ€type model in white birch and deciduous oak. Plant Biology, 2018, 20, 20-28.	1.8	16
144	The passion fruit liana (Passiflora edulis Sims, Passifloraceae) is tolerant to ozone. Science of the Total Environment, 2019, 656, 1091-1101.	3.9	16

#	Article	IF	Citations
145	Flux-Based Ozone Risk Assessment for a Plant Injury Index (PII) in Three European Cool-Temperate Deciduous Tree Species. Forests, 2020, 11, 82.	0.9	16
146	Soil drench of ethylenediurea (EDU) protects sensitive trees from ozone injury. IForest, 2011, 4, 66-68.	0.5	16
147	Mycorrhizal status of an ozone-sensitive poplar clone treated with the antiozonant ethylene diurea. European Journal of Forest Research, 2014, 133, 735-743.	1.1	15
148	Assessment of tropospheric ozone phytotoxic effects on the grapevine (Vitis vinifera L.): A review. Atmospheric Environment, 2021, 244, 117924.	1.9	15
149	Stress markers and physiochemical responses of the Mediterranean shrub Phillyrea angustifolia under current and future drought and ozone scenarios. Environmental Research, 2021, 201, 111615.	3.7	15
150	Effects of acid fog and detergents on foliar leaching of cations. Water, Air, and Soil Pollution, 1989, 45, 49-61.	1.1	15
151	The in-vitro response of pollen germination and tube length to different types of acidity. Environmental Pollution, 1990, 67, 279-286.	3.7	14
152	Effects of different routes of application on ethylenediurea persistence in tobacco leaves. Environmental Pollution, 2016, 212, 559-564.	3.7	14
153	Effect of Long-Term vs. Short-Term Ambient Ozone Exposure on Radial Stem Growth, Sap Flux and Xylem Morphology of O3-Sensitive Poplar Trees. Forests, 2019, 10, 396.	0.9	14
154	Date palm responses to a chronic, realistic ozone exposure in a FACE experiment. Environmental Research, 2021, 195, 110868.	3.7	14
155	Biogenic volatile organic compound emissions from leaves and fruits of apple and peach trees during fruit development. Journal of Environmental Sciences, 2021, 108, 152-163.	3.2	14
156	Economic impacts of ambient ozone pollution on wood production in Italy. Scientific Reports, 2021, 11, 154.	1.6	14
157	Urban Trees and Their Relation to Air Pollution. Future City, 2017, , 21-30.	0.2	13
158	Physiological and biochemical responses of two sugarcane genotypes growing under free-air ozone exposure. Environmental and Experimental Botany, 2018, 153, 72-79.	2.0	13
159	Developing Ozone Risk Assessment for Larch Species. Frontiers in Forests and Global Change, 2020, 3, .	1.0	13
160	Air Pollution Effects on Pollen Germination of Forest Species. , 1988, , 265-270.		13
161	Effects of acidity and detergent on in vitro pollen germination and tube growth in forest tree species. Tree Physiology, 1992, 10, 357-366.	1.4	12
162	Ecophysiological responses of Mediterranean pines to simulated sea aerosol polluted with an anionic surfactant: prospects for biomonitoring. Annals of Forest Science, 2005, 62, 351-360.	0.8	12

#	Article	IF	Citations
163	Plant Species-Specific Litter Decomposition Rates Are Directly Affected by Tropospheric Ozone: Analysis of Trends and Modelling. Water, Air, and Soil Pollution, 2019, 230, 1.	1.1	12
164	Isotopic and Water Relation Responses to Ozone and Water Stress in Seedlings of Three Oak Species with Different Adaptation Strategies. Forests, 2020, 11, 864.	0.9	12
165	Speciesâ€specific variation of photosynthesis and mesophyll conductance to ozone and drought in three Mediterranean oaks. Physiologia Plantarum, 2022, 174, e13639.	2.6	12
166	Towards long-term sustainability of stomatal ozone flux monitoring at forest sites. , 2022, 2, 100018.		12
167	Analysis of soil, roots and mycorrhizae in a Norway spruce declining forest. Chemosphere, 1998, 36, 937-942.	4.2	11
168	A meta-database comparison from various European Research and Monitoring Networks dedicated to forest sites. IForest, 2013, 6, 1-9.	0.5	11
169	Ozone Amplifies Water Loss from Mature Trees in the Short Term But Decreases It in the Long Term. Forests, 2020, 11, 46.	0.9	11
170	Ozone biomonitoring: A versatile tool for science, education and regulation. Current Opinion in Environmental Science and Health, 2020, 18, 7-13.	2.1	11
171	Elemental leaching from quercus ilex L. in response to simulated acidic fog. Water, Air, and Soil Pollution, 1989, 47, 35-46.	1.1	10
172	Metrics: include refereeing as part of performance rating. Nature, 2010, 466, 179-179.	13.7	10
173	Dynamic Stomatal Changes. Plant Ecophysiology, 2014, , 61-82.	1.5	10
174	Response of isoprene emission from poplar saplings to ozone pollution and nitrogen deposition depends on leaf position along the vertical canopy profile. Environmental Pollution, 2020, 265, 114909.	3.7	10
175	Pros and cons of CO2 springs as experimental sites. , 2005, , 195-202.		10
176	UV-band and acid rain effects on beach (Fagus sylvatica L.) and holm oak (Quercus ilex L.) leaves. Chemosphere, 1998, 36, 835-840.	4.2	9
177	Relationships between transpiration, stomatla damage and leaf wettability in declining beech trees. Chemosphere, 1998, 36, 907-912.	4.2	9
178	Protecting the photosynthetic performance of snap bean under free air ozone exposure. Journal of Environmental Sciences, 2018, 66, 31-40.	3.2	9
179	Metabolic and physiological alterations indicate that the tropical broadleaf tree Eugenia uniflora L. is sensitive to ozone. Science of the Total Environment, 2021, 769, 145080.	3.9	9
180	Effects of elevated ozone on the emission of volatile isoprenoids from flowers and leaves of rose (Rosa sp.) varieties. Environmental Pollution, 2021, 291, 118141.	3.7	9

#	Article	IF	Citations
181	Legislative and functional aspects of different metrics used for ozone risk assessment to forests. Environmental Pollution, 2022, 295, 118690.	3.7	9
182	Pre-Exposure to Ozone Predisposes Oak Leaves to Attacks byDiplodia corticolaandBiscogniauxia mediterranea. Scientific World Journal, The, 2007, 7, 222-230.	0.8	8
183	Ozone and Mediterranean ecology: Plants, people, problems. Environmental Pollution, 2009, 157, 1397-1398.	3.7	8
184	COST Action FP0903: â€œResearch, monitoring and modelling in the study of climate change and air pollution impacts on forest ecosystemsâ€: IForest, 2011, 4, 160-161.	0.5	8
185	New functions for estimating AOT40 from ozone passive sampling. Atmospheric Environment, 2014, 95, 82-88.	1.9	8
186	Grapevine and Ozone: Uptake and Effects. Climate, 2019, 7, 140.	1.2	8
187	Elevated ozone prevents acquisition of available nitrogen due to smaller root surface area in poplar. Plant and Soil, 2020, 450, 585-599.	1.8	8
188	Experimental assessment of ozone risk on ecotypes of the tropical tree Moringa oleifera. Environmental Research, 2021, 201, 111475.	3.7	8
189	Chronic ozone exposure preferentially modifies root rather than foliar metabolism of date palm (Phoenix dactylifera) saplings. Science of the Total Environment, 2022, 806, 150563.	3.9	8
190	New type of damage to Quercus ilex: pollen germination and hydration ability. Forest Pathology, 1992, 22, 284-290.	0.5	7
191	Gravitational stress on germinating Pinus pinea seeds. Comptes Rendus - Biologies, 2003, 326, 553-564.	0.1	7
192	Effects of elevated carbon dioxide and acidic rain on the growth of holm oak. Developments in Environmental Science, 2003, 3, 375-389.	0.5	7
193	Light Intensity Affects Ozone-Induced Stomatal Sluggishness in Snapbean. Water, Air, and Soil Pollution, 2016, 227, 1.	1.1	7
194	On the atmospheric ozone monitoring methodologies. Current Opinion in Environmental Science and Health, 2020, 18, 40-46.	2.1	7
195	Ozone exposure, nitrogen addition and moderate drought dynamically interact to affect isoprene emission in poplar. Science of the Total Environment, 2020, 734, 139368.	3.9	7
196	Frost hardening and resistance in three Aleppo pine (Pinus halepensis Mill.) provenances. Israel Journal of Plant Sciences, 2001, 49, 179-186.	0.3	7
197	Whole-plant compensatory responses of isoprene emission from hybrid poplar seedlings exposed to elevated ozone. Science of the Total Environment, 2022, 806, 150949.	3.9	7
198	Season-long exposure of bilberry plants to realistic and future ozone pollution improves the nutraceutical quality of fruits. Science of the Total Environment, 2022, 822, 153577.	3.9	7

#	Article	IF	Citations
199	Title is missing!. Water, Air, and Soil Pollution, 1999, 116, 443-448.	1.1	6
200	Key Indicators of Air Pollution and Climate Change Impacts at Forest Supersites. Developments in Environmental Science, 2013, , 497-518.	0.5	6
201	Extrapolating plot-scale CO2 and ozone enrichment experimental results to novel conditions and scales using mechanistic modeling. Ecological Processes, 2018, 7, .	1.6	6
202	Exploring new strategies for ozone-risk assessment: A dynamic-threshold case study. Environmental Pollution, 2021, 287, 117620.	3.7	6
203	Root Length and Distribution of Chromium in Corylus Avellana with Tuber Albidum Mycorrhyzas. Water, Air, and Soil Pollution, 1999, 113, 33-41.	1.1	5
204	Introductory remarks to the special issue â€“ XXII IUFRO World Congress, 2005 Brisbane â€“ Air pollution and climate change: A global overview of the effects on forest vegetation. Environmental Pollution, 2007, 147, 429.	3.7	5
205	High doses of ethylenediurea (EDU) as soil drenches did not increase leaf N content or cause phytotoxicity in willow grown in fertile soil. Ecotoxicology and Environmental Safety, 2018, 147, 574-584.	2.9	5
206	Seed germination of Pinus halepensis provenances under NaCl stress. Israel Journal of Plant Sciences, 2004, 52, 144-148.	0.3	4
207	Key Studies on Air Pollution and Climate Change Impacts on Forests: An Introduction. Environmental Monitoring and Assessment, 2007, 128, 1-3.	1.3	4
208	Erratum to â€œStructural and physiological responses to ozone in Manna ash (Fraxinus ornus L.) leaves of seedlings and mature trees under controlled and ambient conditionsâ€•[Science of the Total Environment 407 (2009) 1631â€“1643]. Science of the Total Environment, 2010, 408, 2013.	3.9	4
209	A New Wetness Index to Evaluate the Soil Water Availability Influence on Gross Primary Production of European Forests. Climate, 2019, 7, 42.	1.2	4
210	Editorial: Interactions Between Ozone Pollution and Forest Ecosystems. Frontiers in Forests and Global Change, 2021, 3, .	1.0	4
211	Visible Foliar Injury and Ecophysiological Responses to Ozone and Drought in Oak Seedlings. Plants, 2022, 11, 1836.	1.6	4
212	Introduction: Forests under anthropogenic pressure â€“ Effects of air pollution, climate change and urban development. Environmental Pollution, 2008, 155, 389-390.	3.7	3
213	Ozone, climate change and forests. Environmental Pollution, 2012, 169, 249.	3.7	3
214	Biological reactions of forests to climate change and air pollution. Environmental Pollution, 2014, 184, 657-658.	3.7	3
215	Effects of elevated ozone and nitrogen addition on leaf nitrogen metabolism in poplar. Journal of Plant Ecology, 2021, 14, 555-568.	1.2	3
216	Validation of meteorological and ground-level ozone WRF-CHIMERE simulations in a mountainous grapevine growing area for phytotoxic risk assessment. Atmospheric Environment, 2021, 259, 118507.	1.9	3

#	Article	IF	Citations
217	Towards the integration of research and monitoring at forest ecosystems in Europe. Forest Systems, 2013, 22, 535.	0.1	3
218	Stomatal numbers in holm oak (Quercus ilex L.) leaves grown in naturally and artificially CO₂-enriched environments. , 1997, , 197-208.		2
219	Seiridium cardinale cankers in a tolerant Cupressus sempervirens clone under naturally CO2-enriched conditions. Forest Pathology, 2001, 31, 307-311.	0.5	2
220	Climate Changes and Forests. Forest Ecology and Management, 2011, 262, vii-ix.	1.4	2
221	Discussion on the new functions for estimating AOT40 from passive sampling. Atmospheric Environment, 2014, 98, 704-706.	1.9	2
222	Ozone impairs the response of isoprene emission to foliar nitrogen and phosphorus in poplar. Environmental Pollution, 2020, 267, 115679.	3.7	2
223	Poplar root anatomy after exposure to elevated O3 in combination with nitrogen and phosphorus. Trees - Structure and Function, 2021, 35, 1233-1245.	0.9	2
224	Effects of Acid Rain and Surfactant Pollution on the Foliar Structure of Some Tree Species. , 1994, , 205-216.		2
225	Traffic-related NO2 affects expression of Cupressus sempervirens L. pollen allergens. Annals of Agricultural and Environmental Medicine, 0, , .	0.5	2
226	Ecologia. Giornale Botanico Italiano (Florence, Italy: 1962), 1995, 129, 127-157.	0.0	1
227	Preface to the IUFRO RG7.01 special section â€œGlobal Challenges of Air Pollution and Climate Change to Forestsâ€• Environmental Pollution, 2016, 213, 975-976.	3.7	1
228	Different Capability of Native and Non-native Plant Growth-Promoting Bacteria to Improve Snap Bean Tolerance to Ozone. Water, Air, and Soil Pollution, 2021, 232, 1.	1.1	1
229	SILVICULTURE: FOREST PROTECTION. L Italia Forestale E Montana, 2010, , 239-244.	0.0	1
230	Latest Achievements on Climate Change and Forest Interactions in a Polluted Environment. Open Journal of Forestry, 2014, 04, 197-207.	0.1	1
231	Air pollution and climate change threats to plant ecosystems. Environmental Research, 2022, 212, 113420.	3.7	1
232	Effects of Acidity on in vitro Germination and Tube Growth of Pollen from Declining Fagus sylvatica. Journal of Applied Ecology, 1995, 32, 836.	1.9	0
233	Frost hardening and resistance in three Aleppo pine (Pinus halepensis Mill.) provenances. Israel Journal of Plant Sciences, 2001, 49, 179-186.	0.3	0
234	Preface to the IUFRO special section â€œAdaptation of forest ecosystems to air pollution and climate changeâ€• Environmental Pollution, 2011, 159, 1023.	3.7	0

#	Article	IF	Citations
235	Virtual Special Issue Preface: Forest Response to Environmental Stress: Impacts and Adaptation. Science of the Total Environment, 2017, 607-608, 647-648.	3.9	0
236	Preface to the special issue of the 4th Forum Carpaticum conference â€œFuture of the Carpathians: Smart, Sustainable, Inclusiveâ€• Science of the Total Environment, 2017, 609, 160.	3.9	0
237	Response on â€˜comparing concentrationâ€based (<scp>AOT</scp>40) and stomatal uptake (<scp>PODY</scp>) metrics for ozone risk assessment to European forestsâ€™. Global Change Biology, 2017, 23, e3-e4.	4.2	0
238	Economic and Life Cycle Analysis of Passive and Active Monitoring of Ozone for Forest Protection. Environments - MDPI, 2021, 8, 104.	1.5	0
239	Selvicoltura: protezione delle foreste. L Italia Forestale E Montana, 2010, , 141-148.	0.0	0
240	Urban Vegetation Facing Pollution and Over-Heating. , 2014, , 487-495.		0