

Evidence of widespread ozone-induced visible injury on

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Diurnal variation of apoplasmic ascorbate in winter wheat leaves in relation to ozone detoxification. <i>Environmental Pollution</i> , 2015, 207, 413-419.	3.7	19
2	Cumulative ozone effect on canopy stomatal resistance and the impact on boundary layer dynamics and CO ₂ assimilation at the diurnal scale: A case study for grassland in the Netherlands. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 1348-1365.	1.3	11
3	Ambient Level of NO _x and NO _y as Indicators of Photochemical Activity in an Urban Center. , 0, , .		0
4	Ground-level O ₃ pollution and its impacts on food crops in China: A review. <i>Environmental Pollution</i> , 2015, 199, 42-48.	3.7	242
5	Screening agrochemicals as potential protectants of plants against ozone phytotoxicity. <i>Environmental Pollution</i> , 2015, 197, 247-255.	3.7	32
6	A Novel Gene, <i>OZONE-RESPONSIVE APOPLASTIC PROTEIN1</i> , Enhances Cell Death in Ozone Stress in Rice. <i>Plant Physiology</i> , 2015, 169, 873-889.	2.3	46
7	Assessing the effects of ambient ozone in China on snap bean genotypes by using ethylenediurea (EDU). <i>Environmental Pollution</i> , 2015, 205, 199-208.	3.7	53
8	Ozone and plants. <i>Environmental Pollution</i> , 2015, 202, 215-216.	3.7	25
9	Chronic drought stress reduced but not protected Shantung maple (<i>Acer truncatum</i> Bunge) from adverse effects of ozone (O ₃) on growth and physiology in the suburb of Beijing, China. <i>Environmental Pollution</i> , 2015, 201, 34-41.	3.7	41
10	Associational susceptibility in broccoli: mediated by plant volatiles, impeded by ozone. <i>Global Change Biology</i> , 2015, 21, 1993-2004.	4.2	46
11	SLCP co-control approach in East Asia: Tropospheric ozone reduction strategy by simultaneous reduction of NO _x /NMVOC and methane. <i>Atmospheric Environment</i> , 2015, 122, 588-595.	1.9	29
12	Concentration- and flux-based ozone dose-response relationships for five poplar clones grown in North China. <i>Environmental Pollution</i> , 2015, 207, 21-30.	3.7	62
13	Exposure to medium and high ambient levels of ozone causes adverse systemic inflammatory and cardiac autonomic effects. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 308, H1499-H1509.	1.5	68
14	Effects of Ambient Ozone Concentrations on Contents of Nonstructural Carbohydrates in <i>Phoebe bournei</i> and <i>Pinus massoniana</i> Seedlings in Subtropical China. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	1.1	15
15	Differential sensitivity of four urban tree species to elevated O ₃ . <i>Urban Forestry and Urban Greening</i> , 2015, 14, 1166-1173.	2.3	21
16	Effects of CO ₂ and O ₃ on the interaction between root of woody plants and ectomycorrhizae. <i>J Agricultural Meteorology</i> , 2016, 72, 95-105.	0.8	31
17	Scientometrics of Forest Health and Tree Diseases: An Overview. <i>Forests</i> , 2016, 7, 17.	0.9	8
18	The Effect of Elevated Ozone Concentrations with Varying Shading on Dry Matter Loss in a Winter Wheat-Producing Region in China. <i>PLoS ONE</i> , 2016, 11, e0145446.	1.1	2

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19	Climate extremes and ozone pollution: a growing threat to china's food security. <i>Ecosystem Health and Sustainability</i> , 2016, 2, .	1.5	44
20	Deciphering the ozone-induced changes in cellular processes: a prerequisite for ozone risk assessment at the tree and forest levels. <i>Annals of Forest Science</i> , 2016, 73, 923-943.	0.8	50
21	Source apportionment of surface ozone in the Yangtze River Delta, China in the summer of 2013. <i>Atmospheric Environment</i> , 2016, 144, 194-207.	1.9	83
22	Moderate drought did not affect the effectiveness of ethylenediurea (EDU) in protecting <i>Populus cathayana</i> from ambient ozone. <i>Science of the Total Environment</i> , 2016, 569-570, 1536-1544.	3.9	17
23	Differential effects of ozone on photosynthesis of winter wheat among cultivars depend on antioxidative enzymes rather than stomatal conductance. <i>Science of the Total Environment</i> , 2016, 572, 404-411.	3.9	82
24	Testing approaches for calculating stomatal ozone fluxes from passive samplers. <i>Science of the Total Environment</i> , 2016, 572, 56-67.	3.9	8
25	Ozone effects on photosynthesis of ornamental species suitable for urban green spaces of China. <i>Urban Forestry and Urban Greening</i> , 2016, 20, 437-447.	2.3	20
26	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
27	Ozone stomatal flux and O ₃ concentration-based metrics for <i>Astronium graveolens</i> Jacq., a Brazilian native forest tree species. <i>Environmental Pollution</i> , 2016, 213, 1007-1015.	3.7	13
28	Responses of a tropical tree species to ozone: visible leaf injury, growth, and lipid peroxidation. <i>Environmental Science and Pollution Research</i> , 2016, 23, 8085-8090.	2.7	9
29	Effects of elevated ozone on physiological, anatomical and ultrastructural characteristics of four common urban tree species in China. <i>Ecological Indicators</i> , 2016, 67, 367-379.	2.6	45
30	The first toxicological study of the antiozonant and research tool ethylene diurea (EDU) using a <i>Lemna minor</i> L. bioassay: Hints to its mode of action. <i>Environmental Pollution</i> , 2016, 213, 996-1006.	3.7	37
31	Differences in ozone sensitivity among woody species are related to leaf morphology and antioxidant levels. <i>Tree Physiology</i> , 2016, 36, 1105-1116.	1.4	72
32	Global topics and novel approaches in the study of air pollution, climate change and forest ecosystems. <i>Environmental Pollution</i> , 2016, 213, 977-987.	3.7	88
33	Effects of ambient gaseous pollutants on photosynthesis, growth, yield and grain quality of selected crops grown at different sites varying in pollution levels. <i>Archives of Agronomy and Soil Science</i> , 2016, 62, 1195-1207.	1.3	7
34	Effects of Ozone on Crops in China. , 2017, , 175-194.		4
35	Differential responses of peach (<i>Prunus persica</i>) seedlings to elevated ozone are related with leaf mass per area, antioxidant enzymes activity rather than stomatal conductance. <i>Environmental Pollution</i> , 2017, 227, 380-388.	3.7	45
36	Elevated tropospheric ozone affects the concentration and allocation of mineral nutrients of two bamboo species. <i>Science of the Total Environment</i> , 2017, 577, 231-235.	3.9	13

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37	No significant interactions between nitrogen stimulation and ozone inhibition of isoprene emission in Cathay poplar. <i>Science of the Total Environment</i> , 2017, 601-602, 222-229.	3.9	19
38	Ozone exposure- and flux-based response relationships with photosynthesis, leaf morphology and biomass in two poplar clones. <i>Science of the Total Environment</i> , 2017, 603-604, 185-195.	3.9	70
39	Concentration- and flux-based dose responses of isoprene emission from poplar leaves and plants exposed to an ozone concentration gradient. <i>Plant, Cell and Environment</i> , 2017, 40, 1960-1971.	2.8	27
40	Drought Alleviated the Negative Effects of Elevated O ₃ on <i>Lonicera maackii</i> in Urban Area. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2017, 99, 648-653.	1.3	10
41	A meta-analysis on growth, physiological, and biochemical responses of woody species to ground-level ozone highlights the role of plant functional types. <i>Plant, Cell and Environment</i> , 2017, 40, 2369-2380.	2.8	141
42	Variation in Tree Species Ability to Capture and Retain Airborne Fine Particulate Matter (PM _{2.5}). <i>Scientific Reports</i> , 2017, 7, 3206.	1.6	177
43	Water stress mitigates the negative effects of ozone on photosynthesis and biomass in poplar plants. <i>Environmental Pollution</i> , 2017, 230, 268-279.	3.7	73
44	Ozone pollution in China: A review of concentrations, meteorological influences, chemical precursors, and effects. <i>Science of the Total Environment</i> , 2017, 575, 1582-1596.	3.9	1,069
45	Ozone sensitivity of four Pakchoi cultivars with different leaf colors: physiological and biochemical mechanisms. <i>Photosynthetica</i> , 2017, 55, 478-490.	0.9	21
46	Transcriptomic analysis of Pak Choi under acute ozone exposure revealed regulatory mechanism against ozone stress. <i>BMC Plant Biology</i> , 2017, 17, 236.	1.6	19
47	Effects of elevated ozone concentration and nitrogen addition on ammonia stomatal compensation point in a poplar clone. <i>Environmental Pollution</i> , 2018, 238, 760-770.	3.7	10
48	Nitric oxide alleviates wheat yield reduction by protecting photosynthetic system from oxidation of ozone pollution. <i>Environmental Pollution</i> , 2018, 236, 296-303.	3.7	23
49	Characterization of atmospheric trace gases and particulate matter in Hangzhou, China. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1705-1728.	1.9	48
50	Ameliorating Effects of Leaf Water Extract of Three Aromatic Plant Species on Ozone-Polluted Snap Bean (<i>Phaseolus vulgaris</i> L. "Jiangjunyoudou"). <i>Bulletin of Environmental Contamination and Toxicology</i> , 2018, 100, 849-855.	1.3	7
51	Development of Resistance in Two Wheat Cultivars Against Constant Fumigation of Ozone. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2018, 88, 1121-1134.	0.4	4
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53	Protecting the photosynthetic performance of snap bean under free air ozone exposure. <i>Journal of Environmental Sciences</i> , 2018, 66, 31-40.	3.2	9
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56	Elevated ozone affects C, N and P ecological stoichiometry and nutrient resorption of two poplar clones. <i>Environmental Pollution</i> , 2018, 234, 136-144.	3.7	49
57	A WRF-Chem model study of the impact of VOCs emission of a huge petro-chemical industrial zone on the summertime ozone in Beijing, China. <i>Atmospheric Environment</i> , 2018, 175, 44-53.	1.9	26
58	Nationwide ground-level ozone measurements in China suggest serious risks to forests. <i>Environmental Pollution</i> , 2018, 237, 803-813.	3.7	84
59	Characteristics of Atmospheric Boundary Layer Structure during PM _{2.5} and Ozone Pollution Events in Wuhan, China. <i>Atmosphere</i> , 2018, 9, 359.	1.0	6
60	Stable Forecasting of Environmental Time Series via Long Short Term Memory Recurrent Neural Network. <i>IEEE Access</i> , 2018, 6, 75216-75228.	2.6	48
61	Effects of Elevated Ozone Levels on Photosynthesis, Biomass and Non-structural Carbohydrates of <i>Phoebe bournei</i> and <i>Phoebe zhennan</i> in Subtropical China. <i>Frontiers in Plant Science</i> , 2018, 9, 1764.	1.7	27
62	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
63	Ozone phytotoxicity to <i>Panicum maximum</i> and <i>Cenchrus ciliaris</i> at Indo-Gangetic plains: an assessment of antioxidative defense and growth responses. <i>Ecotoxicology</i> , 2019, 28, 853-868.	1.1	2
64	Investigating the effect of methyl jasmonate and melatonin on resistance of <i>Malus crabapple</i> "Hong Jiu"™ to ozone stress. <i>Environmental Science and Pollution Research</i> , 2019, 26, 27761-27768.	2.7	20
65	Ground ozone variations at an urban and a rural station in Beijing from 2006 to 2017: Trend, meteorological influences and formation regimes. <i>Journal of Cleaner Production</i> , 2019, 235, 11-20.	4.6	88
66	Effects of elevated ozone on physiological, biochemical and morphological characteristics of eggplant. <i>Horticulture Environment and Biotechnology</i> , 2019, 60, 809-820.	0.7	10
67	Ozone source apportionment over the Yangtze River Delta region, China: Investigation of regional transport, sectoral contributions and seasonal differences. <i>Atmospheric Environment</i> , 2019, 202, 269-280.	1.9	70
68	Ozone exposure- and flux-yield response relationships for maize. <i>Environmental Pollution</i> , 2019, 252, 1-7.	3.7	35
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70	Effects of elevated ozone and water deficit on poplar saplings: Changes in carbon and nitrogen stocks and their allocation to different organs. <i>Forest Ecology and Management</i> , 2019, 441, 89-98.	1.4	26
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73	Understanding long-term variations of meteorological influences on ground ozone concentrations in Beijing During 2006–2016. <i>Environmental Pollution</i> , 2019, 245, 29-37.	3.7	101
74	Increase of apoplastic ascorbate induced by ozone is insufficient to remove the negative effects in tobacco, soybean and poplar. <i>Environmental Pollution</i> , 2019, 245, 380-388.	3.7	16
75	Ozone foliar damage and defoliation monitoring of <i>P.cembra</i> between 2000 and 2016 in the southeast of France. <i>Environmental Pollution</i> , 2019, 244, 451-461.	3.7	4
76	Rice Responses and Tolerance to Elevated Ozone. , 2019, , 399-411.		6
77	The ozone sensitivity of five poplar clones is not related to stomatal conductance, constitutive antioxidant levels and morphology of leaves. <i>Science of the Total Environment</i> , 2020, 699, 134402.	3.9	19
78	Tropospheric ozone and cadmium do not have interactive effects on growth, photosynthesis and mineral nutrients of <i>Catalpa ovata</i> seedlings in the urban areas of Northeast China. <i>Science of the Total Environment</i> , 2020, 704, 135307.	3.9	7
79	Environmental impacts of nitrogen emissions in China and the role of policies in emission reduction. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190324.	1.6	39
80	Ozone affects plant, insect, and soil microbial communities: A threat to terrestrial ecosystems and biodiversity. <i>Science Advances</i> , 2020, 6, eabc1176.	4.7	181
81	Air pollution monitoring and tree and forest decline in East Asia: A review. <i>Science of the Total Environment</i> , 2020, 742, 140288.	3.9	63
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84	Effect of elevated ozone, nitrogen availability and mesophyll conductance on the temperature responses of leaf photosynthetic parameters in poplar. <i>Tree Physiology</i> , 2020, 40, 484-497.	1.4	15
85	Regional source apportionment of summertime ozone and its precursors in the megacities of Beijing and Shanghai using a source-oriented chemical transport model. <i>Atmospheric Environment</i> , 2020, 224, 117337.	1.9	36
86	Evidence of Ozone-Induced Visible Foliar Injury in Hong Kong Using <i>Phaseolus Vulgaris</i> as a Bioindicator. <i>Atmosphere</i> , 2020, 11, 266.	1.0	17
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88	Ozone-induced effects on leaves in African crop species. <i>Environmental Pollution</i> , 2021, 268, 115789.	3.7	18
89	The effects of elevated CO ₂ , elevated O ₃ , elevated temperature, and drought on plant leaf gas exchanges: a global meta-analysis of experimental studies. <i>Environmental Science and Pollution Research</i> , 2021, 28, 15274-15289.	2.7	12
90	High nitrogen addition decreases the ozone flux by reducing the maximum stomatal conductance in poplar saplings. <i>Environmental Pollution</i> , 2021, 272, 115979.	3.7	12

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92	The impact of elevated ozone on growth, secondary metabolites, production of reactive oxygen species and antioxidant response in an anti-diabetic plant <i>Costus pictus</i> . <i>Functional Plant Biology</i> , 2021, 48, 597.	1.1	9
93	Modelling air quality during the EXPLORE-YRD campaign “ Part II. Regional source apportionment of ozone and PM _{2.5} . <i>Atmospheric Environment</i> , 2021, 247, 118063.	1.9	30
94	Foliage visible injury in the tropical tree species, <i>Astronium graveolens</i> is strictly related to phytotoxic ozone dose (POD _y). <i>Environmental Science and Pollution Research</i> , 2021, 28, 41726-41735.	2.7	4
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96	Different Capability of Native and Non-native Plant Growth-Promoting Bacteria to Improve Snap Bean Tolerance to Ozone. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	1.1	1
97	Impact of chronic elevated ozone exposure on photosynthetic traits and anti-oxidative defense responses of <i>Leucaena leucocephala</i> (Lam.) de wit tree under field conditions. <i>Science of the Total Environment</i> , 2021, 782, 146907.	3.9	9
98	Mechanisms of ozone responses in sensitive and tolerant mungbean cultivars. <i>Science of the Total Environment</i> , 2021, 800, 149550.	3.9	6
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102	Tropospheric Ozone Assessment Report: Present-day tropospheric ozone distribution and trends relevant to vegetation. <i>Elementa</i> , 2018, 6, .	1.1	212
103	Have improvements in ozone air quality reduced ozone uptake into plants?. <i>Elementa</i> , 2020, 8, .	1.1	11
104	Air pollution affects food security in China: taking ozone as an example. <i>Frontiers of Agricultural Science and Engineering</i> , 2015, 2, 152.	0.9	9
105	FACE-ing the challenges of increasing surface ozone concentration in Asia. <i>J Agricultural Meteorology</i> , 2015, 71, 161-166.	0.8	13
106	Ethylenediurea (EDU) spray effects on willows (<i>Salix sachalinensis</i> F. Schmid) grown in ambient or ozone-enriched air: implications for renewable biomass production. <i>Journal of Forestry Research</i> , 2022, 33, 397-422.	1.7	15
107	Effect of Ozone on Physiological and Biochemical Processes of Plants. , 2018, , 65-113.		9
108	Ozone Biomonitoring, Biomass and Yield Response. , 2018, , 115-166.		0

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109	Contribution of Atmospheric Reactive Nitrogen to Ozone Pollution in China. , 2020, , 135-154.		0
110	Effects of ambient and elevated ozone on morphophysiology of cotton (<i>Gossypium hirsutum</i> L.) and its correlation with yield traits. <i>Environmental Technology and Innovation</i> , 2022, 25, 102146.	3.0	8
111	Response of carbon, nitrogen and phosphorus concentration and stoichiometry of plants and soils during a soybean growth season to O ₃ stress and straw return in Northeast China. <i>Science of the Total Environment</i> , 2022, 822, 153573.	3.9	5
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113	Individual and Interactive Effects of Elevated Ozone and Temperature on Plant Responses. <i>Horticulturae</i> , 2022, 8, 211.	1.2	5
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115	Effects of Ozone on Forests. , 2022, , 1-28.		1
116	Responses of Growth, Oxidative Injury and Chloroplast Ultrastructure in Leaves of <i>Lolium perenne</i> and <i>Festuca arundinacea</i> to Elevated O ₃ Concentrations. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5153.	1.8	2
117	Elevated ozone phytotoxicity ameliorations in mung bean (<i>Vigna radiata</i> (L.) Wilczek} by foliar nebulization of silicic acid and ascorbic acid. <i>Environmental Science and Pollution Research</i> , 2022, 29, 69680-69690.	2.7	1
118	Elevated Ozone Concentration and Nitrogen Addition Increase Poplar Rust Severity by Shifting the Phyllosphere Microbial Community. <i>Journal of Fungi</i> (Basel, Switzerland), 2022, 8, 523.	1.5	8
119	Biomonitoring tools and bioprogramming: An overview. , 2022, , 341-366.		1
120	Biomonitoring potential of tropospheric ozone in plants utilizing visible injury and biomarkers. , 2022, , 181-224.		1
121	Air pollution and climate change impact on forest ecosystems in Asian region – a review. <i>Ecosystem Health and Sustainability</i> , 2022, 8, .	1.5	11
122	Air pollution and plant health response-current status and future directions. <i>Atmospheric Pollution Research</i> , 2022, 13, 101508.	1.8	11
123	Research on the Influence of Weather Patterns on Ozone Concentration: A Case Study in Tianjin. <i>Atmosphere</i> , 2022, 13, 1312.	1.0	1
124	Analysis of Ozone Vertical Profiles over Wuyishan Region during Spring 2022 and Their Correlations with Meteorological Factors. <i>Atmosphere</i> , 2022, 13, 1505.	1.0	0
125	Vigor and Health of Urban Green Resources under Elevated O ₃ in Far East Asia. , 0, , .		3
126	Ozone-3, 6-dihydroxynaphtha-2, 7-disulphonate chemiluminescence system is used for online ozone detection. <i>Luminescence</i> , 0, , .	1.5	1

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128	Bridging experimental and monitoring research for visible foliar injury as bio-indicator of ozone impacts on forests. <i>Ecosystem Health and Sustainability</i> , 2022, 8, .	1.5	2
129	Analysis of Ozone Pollution Characteristics and Transport Paths in Xi'an City. <i>Sustainability</i> , 2022, 14, 16146.	1.6	3
130	Assessment of photosynthesis and yield loss of winter wheat under ground-level ozone exposure. <i>Environmental Technology and Innovation</i> , 2023, 29, 103013.	3.0	3
131	New insight into formation mechanism, source and control strategy of severe O ₃ pollution: The case from photochemical simulation in the Wuhan Metropolitan Area, Central China. <i>Atmospheric Research</i> , 2023, 284, 106605.	1.8	6
132	Elevated O ₃ concentrations alter the compartment-specific microbial communities inhabiting rust-infected poplars. <i>Environmental Microbiology</i> , 2023, 25, 990-1006.	1.8	2
133	Identification of key responsive leaf traits for ozone tolerance in six modern indica and japonica rice cultivars (<i>Oryza sativa</i> L.) over two years. <i>Agriculture, Ecosystems and Environment</i> , 2023, 349, 108451.	2.5	2
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136	Effects of ozone on plant and crop yield: Case studies with rice and peanut. <i>Advances in Botanical Research</i> , 2023, , .	0.5	0
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