

Kent O Burkey

List of Publications by Year in descending order

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45
papers

2,474
citations

257101

24
h-index

233125

45
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all docs

45
docs citations

45
times ranked

2725
citing authors

#	ARTICLE	IF	CITATIONS
1	Tropospheric ozone rapidly decreases root growth by altering carbon metabolism and detoxification capability in growing soybean roots. <i>Science of the Total Environment</i> , 2021, 766, 144292.	3.9	6
2	Impact of elevated ozone on yield and carbon-nitrogen content in soybean cultivar "Jake". <i>Plant Science</i> , 2021, 306, 110855.	1.7	7
3	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
4	Warming and elevated ozone induce tradeoffs between fine roots and mycorrhizal fungi and stimulate organic carbon decomposition. <i>Science Advances</i> , 2021, 7, .	4.7	45
5	Interactive Effects of Elevated Ozone and Temperature on Growth and Yield of Soybean (<i>Glycine max</i>) Tj ETQq1 1 0,784314 $\frac{rgBT}{FO}$	1.3	10
6	Differential Ozone Responses Identified among Key Rust-Susceptible Wheat Genotypes. <i>Agronomy</i> , 2020, 10, 1853.	1.3	10
7	Chromosome Location Contributing to Ozone Tolerance in Wheat. <i>Plants</i> , 2019, 8, 261.	1.6	6
8	Leaf Traits That Contribute to Differential Ozone Response in Ozone-Tolerant and Sensitive Soybean Genotypes. <i>Plants</i> , 2019, 8, 235.	1.6	16
9	Shifts in the Composition and Activities of Denitrifiers Dominate CO_2 Stimulation of N_2O Emissions. <i>Environmental Science & Technology</i> , 2019, 53, 11204-11213.	4.6	27
10	Modeling the effects of tropospheric ozone on wheat growth and yield. <i>European Journal of Agronomy</i> , 2019, 105, 13-23.	1.9	18
11	Physiological basis for controlling water consumption by two snap beans genotypes using different anti-transpirants. <i>Agricultural Water Management</i> , 2019, 214, 17-27.	2.4	14
12	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
13	Quantitative trait loci associated with soybean seed weight and composition under different phosphorus levels. <i>Journal of Integrative Plant Biology</i> , 2018, 60, 232-241.	4.1	32
14	Contrasting Warming and Ozone Effects on Denitrifiers Dominate Soil N_2O Emissions. <i>Environmental Science & Technology</i> , 2018, 52, 10956-10966.	4.6	38
15	Closing the global ozone yield gap: Quantification and cobenefits for multistress tolerance. <i>Global Change Biology</i> , 2018, 24, 4869-4893.	4.2	163
16	Application and further characterization of the snap bean S156/R123 ozone biomonitoring system in relation to ambient air temperature. <i>Science of the Total Environment</i> , 2017, 580, 1046-1055.	3.9	14
17	CO_2 -induced alterations in plant nitrate utilization and root exudation stimulate N_2O emissions. <i>Soil Biology and Biochemistry</i> , 2017, 106, 9-17.	4.2	26
18	RNA-Seq study reveals genetic responses of diverse wild soybean accessions to increased ozone levels. <i>BMC Genomics</i> , 2017, 18, 498.	1.2	15

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19	Phenotypic variation and identification of quantitative trait loci for ozone tolerance in a Fiskeby III \times AMandarin (Ottawa) soybean population. <i>Theoretical and Applied Genetics</i> , 2016, 129, 1113-1125.	1.8	23
20	RNA-seq analysis reveals genetic response and tolerance mechanisms to ozone exposure in soybean. <i>BMC Genomics</i> , 2015, 16, 426.	1.2	22
21	Screening of Bangladeshi winter wheat (<i>Triticum aestivum</i> L.) cultivars for sensitivity to ozone. <i>Environmental Science and Pollution Research</i> , 2014, 21, 13560-13571.	2.7	43
22	Influence of atmospheric vapour pressure deficit on ozone responses of snap bean (<i>Phaseolus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	2.4	10
23	Arbuscular Mycorrhizal Fungi Increase Organic Carbon Decomposition Under Elevated CO ₂ . <i>Science</i> , 2012, 337, 1084-1087.	6.0	432
24	Field assessment of a snap bean ozone bioindicator system under elevated ozone and carbon dioxide in a free air system. <i>Environmental Pollution</i> , 2012, 166, 167-171.	3.7	26
25	Elevated Atmospheric Carbon Dioxide and O ₃ Differentially Alter Nitrogen Acquisition in Peanut. <i>Crop Science</i> , 2009, 49, 1827-1836.	0.8	20
26	The Ozone Component of Global Change: Potential Effects on Agricultural and Horticultural Plant Yield, Product Quality and Interactions with Invasive Species. <i>Journal of Integrative Plant Biology</i> , 2009, 51, 337-351.	4.1	255
27	Foliar resistance to ozone injury in the genetic base of U.S. and Canadian soybean and prediction of resistance in descendent cultivars using coefficient of parentage. <i>Field Crops Research</i> , 2009, 111, 207-217.	2.3	41
28	Leaf extracellular ascorbate in relation to O ₃ tolerance of two soybean cultivars. <i>Environmental Pollution</i> , 2007, 150, 355-362.	3.7	49
29	Elevated Carbon Dioxide and Ozone Effects on Peanut: I. Gas \times Exchange, Biomass, and Leaf Chemistry. <i>Crop Science</i> , 2007, 47, 1475-1487.	0.8	27
30	Elevated Carbon Dioxide and Ozone Effects on Peanut: II. Seed Yield and Quality. <i>Crop Science</i> , 2007, 47, 1488-1497.	0.8	54
31	Plant nitrogen acquisition and interactions under elevated carbon dioxide: impact of endophytes and mycorrhizae. <i>Global Change Biology</i> , 2007, 13, 1238-1249.	4.2	56
32	Photosynthesis, chlorophyll fluorescence, and yield of snap bean (<i>Phaseolus vulgaris</i> L.) genotypes differing in sensitivity to ozone. <i>Environmental and Experimental Botany</i> , 2007, 61, 190-198.	2.0	145
33	Assessment of Ambient Ozone Effects on Vegetation Using Snap Bean as a Bioindicator Species. <i>Journal of Environmental Quality</i> , 2005, 34, 1081-1086.	1.0	37
34	Crop responses to ozone: uptake, modes of action, carbon assimilation and partitioning. <i>Plant, Cell and Environment</i> , 2005, 28, 997-1011.	2.8	445
35	Plant and microbial N acquisition under elevated atmospheric CO ₂ in two mesocosm experiments with annual grasses. <i>Global Change Biology</i> , 2005, 11, 213-223.	4.2	41
36	Differential responses of G α protein <i>Arabidopsis thaliana</i> mutants to ozone. <i>New Phytologist</i> , 2004, 162, 633-641.	3.5	39

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37	Factors that affect leaf extracellular ascorbic acid content and redox status. <i>Physiologia Plantarum</i> , 2003, 117, 51-57.	2.6	65
38	Ozone tolerance in snap bean is associated with elevated ascorbic acid in the leaf apoplast. <i>Physiologia Plantarum</i> , 2002, 114, 387-394.	2.6	42
39	Antioxidant metabolite levels in ozone-sensitive and tolerant genotypes of snap bean. <i>Physiologia Plantarum</i> , 2000, 110, 195-200.	2.6	39
40	Effects of ozone on apoplast/cytoplasm partitioning of ascorbic acid in snap bean. <i>Physiologia Plantarum</i> , 1999, 107, 188-193.	2.6	29
41	Identification of a Novel Isoform of the Chloroplast-Coupling Factor $\hat{\pm}$ -Subunit 1. <i>Plant Physiology</i> , 1998, 116, 703-708.	2.3	10
42	Effects of canopy shade on the lipid composition of soybean leaves. <i>Physiologia Plantarum</i> , 1997, 101, 591-598.	2.6	18
43	Effects of natural shade on soybean thylakoid membrane composition. <i>Photosynthesis Research</i> , 1996, 50, 149-158.	1.6	20
44	Genetic variation in soybean photosynthetic electron transport capacity is related to plastocyanin concentration in the chloroplast. <i>Photosynthesis Research</i> , 1996, 49, 141-149.	1.6	24
45	Chlorophyll-protein complex composition during chloroplast development: A species comparison. <i>Photosynthesis Research</i> , 1987, 11, 211-224.	1.6	5