

# Kent O Burkey

## List of Publications by Year in descending order

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45  
papers

2,474  
citations

257450

24  
h-index

233421

45  
g-index

45  
all docs

45  
docs citations

45  
times ranked

2725  
citing authors

#	ARTICLE	IF	CITATIONS
1	Crop responses to ozone: uptake, modes of action, carbon assimilation and partitioning. <i>Plant, Cell and Environment</i> , 2005, 28, 997-1011.	5.7	445
2	Arbuscular Mycorrhizal Fungi Increase Organic Carbon Decomposition Under Elevated CO <sub>2</sub> . <i>Science</i> , 2012, 337, 1084-1087.	12.6	432
3	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.	8.5	255
4	Closing the global ozone yield gap: Quantification and cobenefits for multistress tolerance. <i>Global Change Biology</i> , 2018, 24, 4869-4893.	9.5	163
5	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.	4.2	145
6	Factors that affect leaf extracellular ascorbic acid content and redox status. <i>Physiologia Plantarum</i> , 2003, 117, 51-57.	5.2	65
7	Plant nitrogen acquisition and interactions under elevated carbon dioxide: impact of endophytes and mycorrhizae. <i>Global Change Biology</i> , 2007, 13, 1238-1249.	9.5	56
8	Elevated Carbon Dioxide and Ozone Effects on Peanut: II. Seed Yield and Quality. <i>Crop Science</i> , 2007, 47, 1488-1497.	1.8	54
9	Leaf extracellular ascorbate in relation to O <sub>3</sub> tolerance of two soybean cultivars. <i>Environmental Pollution</i> , 2007, 150, 355-362.	7.5	49
10	Warming and elevated ozone induce tradeoffs between fine roots and mycorrhizal fungi and stimulate organic carbon decomposition. <i>Science Advances</i> , 2021, 7, .	10.3	45
11	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.	5.3	43
12	Ozone tolerance in snap bean is associated with elevated ascorbic acid in the leaf apoplast. <i>Physiologia Plantarum</i> , 2002, 114, 387-394.	5.2	42
13	Plant and microbial N acquisition under elevated atmospheric CO <sub>2</sub> in two mesocosm experiments with annual grasses. <i>Global Change Biology</i> , 2005, 11, 213-223.	9.5	41
14	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.	5.1	41
15	Antioxidant metabolite levels in ozone-sensitive and tolerant genotypes of snap bean. <i>Physiologia Plantarum</i> , 2000, 110, 195-200.	5.2	39
16	Differential responses of Gâ€protein <i>Arabidopsis thaliana</i> mutants to ozone. <i>New Phytologist</i> , 2004, 162, 633-641.	7.3	39
17	Contrasting Warming and Ozone Effects on Denitrifiers Dominate Soil N <sub>2</sub> O Emissions. <i>Environmental Science &amp; Technology</i> , 2018, 52, 10956-10966.	10.0	38
18	Assessment of Ambient Ozone Effects on Vegetation Using Snap Bean as a Bioindicator Species. <i>Journal of Environmental Quality</i> , 2005, 34, 1081-1086.	2.0	37

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19	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.	8.5	32
20	Effects of ozone on apoplast/cytoplasm partitioning of ascorbic acid in snap bean. <i>Physiologia Plantarum</i> , 1999, 107, 188-193.	5.2	29
21	Elevated Carbon Dioxide and Ozone Effects on Peanut: I. Gas Exchange, Biomass, and Leaf Chemistry. <i>Crop Science</i> , 2007, 47, 1475-1487.	1.8	27
22	Shifts in the Composition and Activities of Denitrifiers Dominate CO <sub>2</sub> Stimulation of N <sub>2</sub> O Emissions. <i>Environmental Science &amp; Technology</i> , 2019, 53, 11204-11213.	10.0	27
23	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.	7.5	26
24	CO <sub>2</sub> -induced alterations in plant nitrate utilization and root exudation stimulate N <sub>2</sub> O emissions. <i>Soil Biology and Biochemistry</i> , 2017, 106, 9-17.	8.8	26
25	Genetic variation in soybean photosynthetic electron transport capacity is related to plastocyanin concentration in the chloroplast. <i>Photosynthesis Research</i> , 1996, 49, 141-149.	2.9	24
26	Phenotypic variation and identification of quantitative trait loci for ozone tolerance in a Fiskeby IIIA–AMandarin (Ottawa) soybean population. <i>Theoretical and Applied Genetics</i> , 2016, 129, 1113-1125.	3.6	23
27	RNA-seq analysis reveals genetic response and tolerance mechanisms to ozone exposure in soybean. <i>BMC Genomics</i> , 2015, 16, 426.	2.8	22
28	Effects of natural shade on soybean thylakoid membrane composition. <i>Photosynthesis Research</i> , 1996, 50, 149-158.	2.9	20
29	Elevated Atmospheric Carbon Dioxide and O <sub>3</sub> Differentially Alter Nitrogen Acquisition in Peanut. <i>Crop Science</i> , 2009, 49, 1827-1836.	1.8	20
30	Effects of canopy shade on the lipid composition of soybean leaves. <i>Physiologia Plantarum</i> , 1997, 101, 591-598.	5.2	18
31	Modeling the effects of tropospheric ozone on wheat growth and yield. <i>European Journal of Agronomy</i> , 2019, 105, 13-23.	4.1	18
32	Leaf Traits That Contribute to Differential Ozone Response in Ozone-Tolerant and Sensitive Soybean Genotypes. <i>Plants</i> , 2019, 8, 235.	3.5	16
33	RNA-Seq study reveals genetic responses of diverse wild soybean accessions to increased ozone levels. <i>BMC Genomics</i> , 2017, 18, 498.	2.8	15
34	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.	8.0	14
35	Physiological basis for controlling water consumption by two snap beans genotypes using different anti-transpirants. <i>Agricultural Water Management</i> , 2019, 214, 17-27.	5.6	14
36	Identification of a Novel Isoform of the Chloroplast-Coupling Factor $\hat{\iota}$ -Subunit 1. <i>Plant Physiology</i> , 1998, 116, 703-708.	4.8	10

#	ARTICLE	IF	CITATIONS
37	Influence of atmospheric vapour pressure deficit on ozone responses of snap bean ( <i>Phaseolus</i> ) Tj ETQq1 1 0.784314.rgBT /Oyerlock 10	4.8	10
38	Interactive Effects of Elevated Ozone and Temperature on Growth and Yield of Soybean ( <i>Glycine max</i> ) Tj ETQq0 0 0.rgBT /Oyerlock 10 T	3.9	10
39	Differential Ozone Responses Identified among Key Rust-Susceptible Wheat Genotypes. <i>Agronomy</i> , 2020, 10, 1853.	3.0	10
40	Protecting the photosynthetic performance of snap bean under free air ozone exposure. <i>Journal of Environmental Sciences</i> , 2018, 66, 31-40.	6.1	9
41	Impact of elevated ozone on yield and carbon-nitrogen content in soybean cultivar "Jake". <i>Plant Science</i> , 2021, 306, 110855.	3.6	7
42	Chromosome Location Contributing to Ozone Tolerance in Wheat. <i>Plants</i> , 2019, 8, 261.	3.5	6
43	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.	8.0	6
44	Chlorophyll-protein complex composition during chloroplast development: A species comparison. <i>Photosynthesis Research</i> , 1987, 11, 211-224.	2.9	5
45	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.	2.4	1