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List of Publications by Year in descending order

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Version: 2024-02-01

104
papers

8,160
citations

50276

46
h-index

49909

87
g-index

112
all docs

112
docs citations

112
times ranked

7766
citing authors

#	ARTICLE	IF	CITATIONS
1	Rising Carbon Dioxide and Global Nutrition: Evidence and Action Needed. <i>Plants</i> , 2022, 11, 1000.	3.5	12
2	Accelerated sea-level rise is suppressing CO ₂ stimulation of tidal marsh productivity: A 33-year study. <i>Science Advances</i> , 2022, 8, eabn0054.	10.3	13
3	Global Climate Change and Pollen Aeroallergens. <i>Immunology and Allergy Clinics of North America</i> , 2021, 41, 1-16.	1.9	28
4	Leaf characteristics of rice cultivars with a stronger yield response to projected increases in CO ₂ concentration. <i>Physiologia Plantarum</i> , 2021, 171, 416-423.	5.2	6
5	Responses of rice qualitative characteristics to elevated carbon dioxide and higher temperature: implications for global nutrition. <i>Journal of the Science of Food and Agriculture</i> , 2021, 101, 3854-3861.	3.5	12
6	Crop Adaptation: Weedy and Crop Wild Relatives as an Untapped Resource to Utilize Recent Increases in Atmospheric CO ₂ . <i>Plants</i> , 2021, 10, 88.	3.5	6
7	Anthropogenic climate change is worsening North American pollen seasons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	118
8	Higher airborne pollen concentrations correlated with increased SARS-CoV-2 infection rates, as evidenced from 31 countries across the globe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	92
9	Coming Together for Climate and Health. <i>Journal of Occupational and Environmental Medicine</i> , 2021, 63, e308-e313.	1.7	0
10	Nutritional quality of crops in a high CO ₂ world: an agenda for research and technology development. <i>Environmental Research Letters</i> , 2021, 16, 064045.	5.2	27
11	Recent CO ₂ levels promote increased production of the toxin parthenin in an invasive <i>Parthenium hysterophorus</i> biotype. <i>Nature Plants</i> , 2021, 7, 725-729.	9.3	17
12	Climate, Carbon Dioxide, and Plant-Based Aero-Allergens: A Deeper Botanical Perspective. <i>Frontiers in Allergy</i> , 2021, 2, 714724.	2.8	8
13	The potential role of sucrose transport gene expression in the photosynthetic and yield response of rice cultivars to future CO ₂ concentration. <i>Physiologia Plantarum</i> , 2020, 168, 218-226.	5.2	18
14	Climate Change and the Herbicide Paradigm: Visiting the Future. <i>Agronomy</i> , 2020, 10, 1953.	3.0	14
15	Early growth phase and caffeine content response to recent and projected increases in atmospheric carbon dioxide in coffee (<i>Coffea arabica</i> and <i>C. canephora</i>). <i>Scientific Reports</i> , 2020, 10, 5875.	3.3	11
16	An Overview of Rising CO ₂ and Climatic Change on Aeroallergens and Allergic Diseases. <i>Allergy, Asthma and Immunology Research</i> , 2020, 12, 771.	2.9	19
17	Combining the effects of increased atmospheric carbon dioxide on protein, iron, and zinc availability and projected climate change on global diets: a modelling study. <i>Lancet Planetary Health</i> , The, 2019, 3, e307-e317.	11.4	107
18	Understanding the nexus of rising CO ₂ , climate change, and evolution in weed biology. <i>Invasive Plant Science and Management</i> , 2019, 12, 79-88.	1.1	35

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19	Associations between alteration in plant phenology and hay fever prevalence among US adults: Implication for changing climate. <i>PLoS ONE</i> , 2019, 14, e0212010.	2.5	17
20	Rising Atmospheric CO ₂ Lowers Concentrations of Plant Carotenoids Essential to Human Health: A Meta-Analysis. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1801047.	3.3	35
21	High [CO ₂] and Temperature Increase Resistance to Cyhalofop-Butyl in Multiple-Resistant <i>Echinochloa colona</i> . <i>Frontiers in Plant Science</i> , 2019, 10, 529.	3.6	24
22	Temperature-related changes in airborne allergenic pollen abundance and seasonality across the northern hemisphere: a retrospective data analysis. <i>Lancet Planetary Health</i> , The, 2019, 3, e124-e131.	11.4	204
23	Elevated CO ₂ may reduce arsenic accumulation in diverse ecotypes of <i>Arabidopsis thaliana</i> . <i>Journal of Plant Nutrition</i> , 2018, 41, 645-653.	1.9	9
24	Unique challenges and opportunities for northeastern US crop production in a changing climate. <i>Climatic Change</i> , 2018, 146, 231-245.	3.6	90
25	Ratooning as an adaptive management tool for climatic change in rice systems along a north-south transect in the southern Mississippi valley. <i>Agricultural and Forest Meteorology</i> , 2018, 263, 409-416.	4.8	25
26	Climate Change, Carbon Dioxide, and Pest Biology, Managing the Future: Coffee as a Case Study. <i>Agronomy</i> , 2018, 8, 152.	3.0	35
27	Carbon dioxide (CO ₂) levels this century will alter the protein, micronutrients, and vitamin content of rice grains with potential health consequences for the poorest rice-dependent countries. <i>Science Advances</i> , 2018, 4, eaaq1012.	10.3	267
28	Tolerance of subzero winter cold in kudzu (<i>Pueraria montana</i> var. <i>lobata</i>). <i>Oecologia</i> , 2018, 187, 839-849.	2.0	18
29	Increases in atmospheric carbon dioxide: Anticipated negative effects on food quality. <i>PLoS Medicine</i> , 2018, 15, e1002600.	8.4	23
30	Comment on "Unexpected reversal of C ₃ versus C ₄ grass response to elevated CO ₂ during a 20-year field experiment". <i>Science</i> , 2018, 361, .	12.6	8
31	Could recent increases in atmospheric CO ₂ have acted as a selection factor in <i>Avena fatua</i> populations? A case study of cultivated and wild oat competition. <i>Weed Research</i> , 2017, 57, 399-405.	1.7	10
32	Exposure to Extreme Heat Events Is Associated with Increased Hay Fever Prevalence among Nationally Representative Sample of US Adults: 1997-2013. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2017, 5, 435-441.e2.	3.8	27
33	Cultivar-Specific Changes in Peanut Yield, Biomass, and Allergenicity in Response to Elevated Atmospheric Carbon Dioxide Concentration. <i>Crop Science</i> , 2016, 56, 2766-2774.	1.8	9
34	Impacts of Climate Change on Allergen Seasonality. , 2016, , 92-112.		10
35	Rising atmospheric CO ₂ is reducing the protein concentration of a floral pollen source essential for North American bees. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160414.	2.6	69
36	The shape of impacts to come: lessons and opportunities for adaptation from uneven increases in global and regional temperatures. <i>Climatic Change</i> , 2016, 139, 341-349.	3.6	12

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37	The role of climate change and increasing atmospheric carbon dioxide on weed management: Herbicide efficacy. <i>Agriculture, Ecosystems and Environment</i> , 2016, 231, 304-309.	5.3	61
38	Cheatgrass is favored by warming but not CO ₂ enrichment in a semi-arid grassland. <i>Global Change Biology</i> , 2016, 22, 3026-3038.	9.5	64
39	Evidence for divergence of response in <i>Indica</i> , <i>Japonica</i> , and wild rice to high CO ₂ – temperature interaction. <i>Global Change Biology</i> , 2016, 22, 2620-2632.	9.5	38
40	Climate Change, Carbon Dioxide, and Pest Biology: Monitor, Mitigate, Manage. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 6-12.	5.2	50
41	Historical and experimental evidence for enhanced concentration of artemisinin, a global anti-malarial treatment, with recent and projected increases in atmospheric carbon dioxide. <i>Climatic Change</i> , 2015, 132, 295-306.	3.6	12
42	Weedy (Red) Rice. <i>Advances in Agronomy</i> , 2015, , 181-228.	5.2	96
43	Evidence for recent evolution in an invasive species, <i>Microstegium vimineum</i> , <i>Japanese stiltgrass</i> . <i>Weed Research</i> , 2015, 55, 260-267.	1.7	13
44	Assessment of cultivated and wild, weedy rice lines to concurrent changes in CO ₂ concentration and air temperature: determining traits for enhanced seed yield with increasing atmospheric CO ₂ . <i>Functional Plant Biology</i> , 2014, 41, 236.	2.1	26
45	Biochemical and molecular characteristics of leaf photosynthesis and relative seed yield of two contrasting rice cultivars in response to elevated [CO ₂]. <i>Journal of Experimental Botany</i> , 2014, 65, 6049-6056.	4.8	56
46	Increasing Minimum Daily Temperatures Are Associated with Enhanced Pesticide Use in Cultivated Soybean along a Latitudinal Gradient in the Mid-Western United States. <i>PLoS ONE</i> , 2014, 9, e98516.	2.5	24
47	Observed changes in soybean growth and seed yield from <i>Amblyoploa theophrasti</i> competition as a function of carbon dioxide concentration. <i>Weed Research</i> , 2013, 53, 140-145.	1.7	12
48	Assessing the impact of increasing carbon dioxide and temperature on crop-weed interactions for tomato and a C ₃ and C ₄ weed species. <i>European Journal of Agronomy</i> , 2013, 50, 60-65.	4.1	12
49	The role of water availability on weed-crop interactions in processing tomato for southern Italy. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2013, 63, 62-68.	0.6	13
50	Food security and climate change: on the potential to adapt global crop production by active selection to rising atmospheric carbon dioxide. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 4097-4105.	2.6	167
51	Anthropogenic climate change and allergen exposure: The role of plant biology. <i>Journal of Allergy and Clinical Immunology</i> , 2012, 129, 27-32.	2.9	116
52	The temporal and species dynamics of photosynthetic acclimation in flag leaves of rice (<i>Oryza sativa</i>). <i>Plantarum</i> , 2012, 145, 395-405.	5.2	62
53	Recent and Projected Increases in Atmospheric CO ₂ Concentration Can Enhance Gene Flow between Wild and Genetically Altered Rice (<i>Oryza sativa</i>). <i>PLoS ONE</i> , 2012, 7, e37522.	2.5	33
54	Climate Impacts on Agriculture: Implications for Crop Production. <i>Agronomy Journal</i> , 2011, 103, 351-370.	1.8	1,056

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55	Quantifying the effect of drought on carbon dioxide-induced changes in competition between a C ₃ crop (tomato) and a C ₄ weed (<i>Amaranthus retroflexus</i>). <i>Weed Research</i> , 2011, 51, 591-600.	1.7	32
56	Invasive species and climate change: an agronomic perspective. <i>Climatic Change</i> , 2011, 105, 13-42.	3.6	185
57	Recent warming by latitude associated with increased length of ragweed pollen season in central North America. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4248-4251.	7.1	324
58	Competitive Interactions between Cultivated and Red Rice as a Function of Recent and Projected Increases in Atmospheric Carbon Dioxide. <i>Agronomy Journal</i> , 2010, 102, 118-123.	1.8	66
59	Elevated Atmospheric Carbon Dioxide Concentrations Amplify <i>Alternaria alternata</i> Sporulation and Total Antigen Production. <i>Environmental Health Perspectives</i> , 2010, 118, 1223-1228.	6.0	102
60	Global Climate Change and Carbon Dioxide: Assessing Weed Biology and Management. ICP Series on Climate Change Impacts, Adaptation, and Mitigation, 2010, , 191-208.	0.4	7
61	Elevated carbon dioxide alters chemical management of Canada thistle in no-till soybean. <i>Field Crops Research</i> , 2010, 119, 299-303.	5.1	23
62	Predicting plant invasions in an era of global change. <i>Trends in Ecology and Evolution</i> , 2010, 25, 310-318.	8.7	531
63	Rising CO ₂ , Climate Change, and Public Health: Exploring the Links to Plant Biology. <i>Environmental Health Perspectives</i> , 2009, 117, 155-158.	6.0	66
64	Macroclimate associated with urbanization increases the rate of secondary succession from fallow soil. <i>Oecologia</i> , 2009, 159, 637-647.	2.0	29
65	An evaluation of cassava, sweet potato and field corn as potential carbohydrate sources for bioethanol production in Alabama and Maryland. <i>Biomass and Bioenergy</i> , 2009, 33, 1503-1508.	5.7	158
66	Recent and projected increases in atmospheric carbon dioxide and the potential impacts on growth and alkaloid production in wild poppy (<i>Papaver setigerum</i> DC.). <i>Climatic Change</i> , 2008, 91, 395-403.	3.6	36
67	Climate change, aerobiology, and public health in the Northeast United States. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2008, 13, 607-613.	2.1	48
68	Three-year field evaluation of early and late 20th century spring wheat cultivars to projected increases in atmospheric carbon dioxide. <i>Field Crops Research</i> , 2008, 108, 54-59.	5.1	60
69	Rising Atmospheric Carbon Dioxide and Plant Biology: The Overlooked Paradigm. <i>DNA and Cell Biology</i> , 2008, 27, 165-172.	1.9	46
70	Differential Response of Cultivated and Weedy (Red) Rice to Recent and Projected Increases in Atmospheric Carbon Dioxide. <i>Agronomy Journal</i> , 2008, 100, 1259-1263.	1.8	41
71	Empirical Selection of Cultivated Oat in Response to Rising Atmospheric Carbon Dioxide. <i>Crop Science</i> , 2007, 47, 1547-1552.	1.8	20
72	A quantitative and qualitative assessment of mung bean (<i>Vigna mungo</i> (L.) Wilczek) seed in response to elevated atmospheric carbon dioxide: potential changes in fatty acid composition. <i>Journal of the Science of Food and Agriculture</i> , 2007, 87, 920-923.	3.5	12

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73	Predicting the impact of changing CO ₂ on crop yields: some thoughts on food. <i>New Phytologist</i> , 2007, 175, 607-618.	7.3	151
74	Elevated Atmospheric Carbon Dioxide and Weed Populations in Glyphosate Treated Soybean. <i>Crop Science</i> , 2006, 46, 1354-1359.	1.8	46
75	Biomass and toxicity responses of poison ivy (<i>Toxicodendron radicans</i>) to elevated atmospheric CO ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9086-9089.	7.1	136
76	Alterations in the production and concentration of selected alkaloids as a function of rising atmospheric carbon dioxide and air temperature: implications for ethno-pharmacology. <i>Global Change Biology</i> , 2005, 11, 1798-1807.	9.5	34
77	The impact of recent increases in atmospheric CO ₂ on biomass production and vegetative retention of Cheatgrass (<i>Bromus tectorum</i>): implications for fire disturbance. <i>Global Change Biology</i> , 2005, 11, 1325-1332.	9.5	118
78	Research note: Increasing Amb a 1 content in common ragweed (<i>Ambrosia artemisiifolia</i>) pollen as a function of rising atmospheric CO ₂ concentration. <i>Functional Plant Biology</i> , 2005, 32, 667.	2.1	175
79	Quantitative and qualitative evaluation of selected wheat varieties released since 1903 to increasing atmospheric carbon dioxide: can yield sensitivity to carbon dioxide be a factor in wheat performance?. <i>Global Change Biology</i> , 2004, 10, 1810-1819.	9.5	113
80	Characterization of an urban-rural CO ₂ /temperature gradient and associated changes in initial plant productivity during secondary succession. <i>Oecologia</i> , 2004, 139, 454-458.	2.0	102
81	Changes in biomass and root:shoot ratio of field-grown Canada thistle (<i>Cirsium arvense</i>), a noxious, invasive weed, with elevated CO ₂ : implications for control with glyphosate. <i>Weed Science</i> , 2004, 52, 584-588.	1.5	101
82	Rising Carbon Dioxide and Weed Ecology. , 2004, , 159-176.		10
83	The impact of nitrogen supply on the potential response of a noxious, invasive weed, Canada thistle (<i>Cirsium arvense</i>) to recent increases in atmospheric carbon dioxide. <i>Physiologia Plantarum</i> , 2003, 119, 105-112.	5.2	15
84	Cities as harbingers of climate change: Common ragweed, urbanization, and public health. <i>Journal of Allergy and Clinical Immunology</i> , 2003, 111, 290-295.	2.9	368
85	Evaluation of the growth response of six invasive species to past, present and future atmospheric carbon dioxide. <i>Journal of Experimental Botany</i> , 2003, 54, 395-404.	4.8	155
86	Evaluation of yield loss in field sorghum from a C ₃ and C ₄ weed with increasing CO ₂ . <i>Weed Science</i> , 2003, 51, 914-918.	1.5	51
87	Influence of rising atmospheric CO ₂ since 1900 on early growth and photosynthetic response of a noxious invasive weed, Canada thistle (<i>Cirsium arvense</i>). <i>Functional Plant Biology</i> , 2002, 29, 1387.	2.1	25
88	Rising Atmospheric Carbon Dioxide and Seed Yield of Soybean Genotypes. <i>Crop Science</i> , 2001, 41, 385-391.	1.8	58
89	Changes in competitive ability between a C ₄ crop and a C ₃ weed with elevated carbon dioxide. <i>Weed Science</i> , 2001, 49, 622-627.	1.5	55
90	The impact of elevated CO ₂ on yield loss from a C ₃ and C ₄ weed in field-grown soybean. <i>Global Change Biology</i> , 2000, 6, 899-905.	9.5	69

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91	Rising CO ₂ and pollen production of common ragweed (<i>Ambrosia artemisiifolia</i> L.), a known allergy-inducing species: implications for public health.. <i>Functional Plant Biology</i> , 2000, 27, 893.	2.1	75
92	Crop ecosystem responses to climatic change: crop/weed interactions.. , 2000, , 333-352.		37
93	Future atmospheric carbon dioxide may increase tolerance to glyphosate. <i>Weed Science</i> , 1999, 47, 608-615.	1.5	97
94	Growth dynamics and genotypic variation in tropical, field-grown paddy rice (<i>Oryza sativa</i> L.) in response to increasing carbon dioxide and temperature. <i>Global Change Biology</i> , 1998, 4, 645-656.	9.5	129
95	Intraspecific variation in seed yield of soybean (<i>Glycine max</i>) in response to increased atmospheric carbon dioxide. <i>Functional Plant Biology</i> , 1998, 25, 801.	2.1	31
96	Effects of high temperature and CO ₂ concentration on spikelet sterility in indica rice. <i>Field Crops Research</i> , 1997, 51, 213-219.	5.1	230
97	Growth and Yield Response of Field-grown Tropical Rice to Increasing Carbon Dioxide and Air Temperature. <i>Agronomy Journal</i> , 1997, 89, 45-53.	1.8	206
98	The interaction of high temperature and elevated CO ₂ on photosynthetic acclimation of single leaves of rice in situ. <i>Physiologia Plantarum</i> , 1997, 99, 178-184.	5.2	39
99	Title is missing!. <i>Photosynthesis Research</i> , 1997, 54, 199-208.	2.9	138
100	Intraspecific variation in the response of rice (<i>Oryza sativa</i> L.) to increased CO ₂ and temperature: growth and yield response of 17 cultivars. <i>Journal of Experimental Botany</i> , 1996, 47, 1353-1359.	4.8	142
101	Growth and photosynthetic response of three soybean cultivars to simultaneous increases in growth temperature and CO ₂ . <i>Physiologia Plantarum</i> , 1995, 94, 575-584.	5.2	33
102	Growth and photosynthetic response of three soybean cultivars to simultaneous increases in growth temperature and CO ₂ . <i>Physiologia Plantarum</i> , 1995, 94, 575-584.	5.2	29
103	Plant Responses to Rising Atmospheric Carbon Dioxide. , 0, , 17-47.		33
104	Rising atmospheric <scp> CO ₂ </scp> concentration affect weedy rice growth, seed shattering and seedbank longevity. <i>Weed Research</i> , 0, , .	1.7	3