

Wei Gao

List of Publications by Year in descending order

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111
papers

2,832
citations

159585

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113
docs citations

113
times ranked

3428
citing authors

#	ARTICLE	IF	CITATIONS
1	Individual and Interactive Effects of Multiple Abiotic Stress Treatments on Early-Season Growth and Development of Two Brassica Species. <i>Agriculture (Switzerland)</i> , 2022, 12, 453.	3.1	1
2	Land/Atmosphere/Water Interactions. , 2021, , 245-278.		0
3	Interactive Impacts of Temperature and Elevated CO ₂ on Basil (<i>Ocimum basilicum</i> L.) Root and Shoot Morphology and Growth. <i>Horticulturae</i> , 2021, 7, 112.	2.8	10
4	Yield, Physiological Performance, and Phytochemistry of Basil (<i>Ocimum basilicum</i> L.) under Temperature Stress and Elevated CO ₂ Concentrations. <i>Plants</i> , 2021, 10, 1072.	3.5	15
5	Alterations in the leaf lipidome of <i>Brassica carinata</i> under high-temperature stress. <i>BMC Plant Biology</i> , 2021, 21, 404.	3.6	9
6	Multi-source hierarchical data fusion for high-resolution AOD mapping in a forest fire event. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021, 102, 102366.	2.8	11
7	Ensemble Learning via Higher Order Singular Value Decomposition for Integrating Data and Classifier Fusion in Water Quality Monitoring. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 3345-3360.	4.9	7
8	Morpho-Physiological Characterization of Diverse Rice Genotypes for Seedling Stage High- and Low-Temperature Tolerance. <i>Agronomy</i> , 2021, 11, 112.	3.0	17
9	Drought and Elevated CO ₂ Impacts Photosynthesis and Biochemicals of Basil (<i>Ocimum basilicum</i> L.). <i>Stresses</i> , 2021, 1, 223-237.	4.8	13
10	Drought and Elevated Carbon Dioxide Impact the Morphophysiological Profile of Basil (<i>Ocimum</i>) Tj ETQq0 0 0 rgBT/Overlock_10 Tf 50 3	1.4	6
11	Individual and Interactive Temporal Implications of UV-B Radiation and Elevated CO ₂ on the Morphology of Basil (<i>Ocimum basilicum</i> L.). <i>Horticulturae</i> , 2021, 7, 474.	2.8	2
12	Satellite remote sensing of aerosol optical depth: advances, challenges, and perspectives. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 1640-1725.	12.8	68
13	Seasonal grassland productivity forecast for the U.S. Great Plains using GrassCast. <i>Ecosphere</i> , 2020, 11, e03280.	2.2	22
14	Missing Pixel Reconstruction on Landsat 8 Analysis Ready Data Land Surface Temperature Image Patches Using Source-Augmented Partial Convolution. <i>Remote Sensing</i> , 2020, 12, 3143.	4.0	2
15	A novel method for leaf chlorophyll retrieval based on harmonic analysis: a case study on <i>Spartina alterniflora</i> . <i>Earth Science Informatics</i> , 2020, 13, 747-762.	3.2	4
16	Developing functional relationships between temperature and soybean yield and seed quality. <i>Agronomy Journal</i> , 2020, 112, 194-204.	1.8	31
17	Parental Environmental Effects on Seed Quality and Germination Response to Temperature of <i>Andropogon gerardii</i> . <i>Agronomy</i> , 2019, 9, 304.	3.0	8
18	Assessing precipitation, evapotranspiration, and <sc>NDVI</sc> as controls of U.S. Great Plains plant production. <i>Ecosphere</i> , 2019, 10, e02889.	2.2	26

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19	Advancing the prediction accuracy of satellite-based PM2.5 concentration mapping: A perspective of data mining through in situ PM2.5 measurements. <i>Environmental Pollution</i> , 2019, 254, 113047.	7.5	32
20	Drought stress has transgenerational effects on soybean seed germination and seedling vigor. <i>PLoS ONE</i> , 2019, 14, e0214977.	2.5	65
21	Physiological assessment of water deficit in soybean using midday leaf water potential and spectral features. <i>Journal of Plant Interactions</i> , 2019, 14, 533-543.	2.1	46
22	Evaluating Soybean Cultivars for Low- and High-Temperature Tolerance During the Seedling Growth Stage. <i>Agronomy</i> , 2019, 9, 13.	3.0	53
23	Projected day/night temperatures specifically limits rubisco activity and electron transport in diverse rice cultivars. <i>Environmental and Experimental Botany</i> , 2019, 159, 191-199.	4.2	7
24	Spatiotemporal trend analysis for fine particulate matter concentrations in China using high-resolution satellite-derived and ground-measured PM2.5 data. <i>Journal of Environmental Management</i> , 2019, 233, 530-542.	7.8	55
25	Improving the mean and uncertainty of ultraviolet multi-filter rotating shadowband radiometer in situ calibration factors: utilizing Gaussian process regression with a new method to estimate dynamic input uncertainty. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 935-953.	3.1	1
26	Generation of long-term InSAR ground displacement time-series through a novel multi-sensor data merging technique: The case study of the Shanghai coastal area. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 154, 10-27.	11.1	40
27	Diagnosing atmospheric stability effects on the modeling accuracy of PM2.5 /AOD relationship in eastern China using radiosonde data. <i>Environmental Pollution</i> , 2019, 251, 380-389.	7.5	14
28	Reconstruct missing pixels of Landsat land surface temperature product using a CNN with partial convolution. , 2019, , .		4
29	Estimating Error Covariance and Correlation Region in UV Irradiance Data Fusion by Combining TOMS-OMI and UVMRP Ground Observations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 355-370.	6.3	4
30	Intercomparison of CALIOP, MODIS, and AERONET aerosol optical depth over China during the past decade. <i>International Journal of Remote Sensing</i> , 2018, 39, 7251-7275.	2.9	9
31	Estimating leaf chlorophyll contents by combining multiple spectral indices with an artificial neural network. <i>Earth Science Informatics</i> , 2018, 11, 147-156.	3.2	13
32	Development of the DayCent-Photo model and integration of variable photosynthetic capacity. <i>Frontiers of Earth Science</i> , 2018, 12, 765-778.	2.1	11
33	Photodegradation accelerates ecosystem N cycling in a simulated California grassland. <i>Ecosphere</i> , 2018, 9, e02370.	2.2	14
34	Low and high-temperature effects on sweetpotato storage root initiation and early transplant establishment. <i>Scientia Horticulturae</i> , 2018, 240, 38-48.	3.6	26
35	Adaptive bias correction of advanced infrared sounding radiance assimilation in a regional model and its impact on typhoon forecast. <i>Journal of Applied Remote Sensing</i> , 2018, 12, 1.	1.3	1
36	Determining climate effects on US total agricultural productivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2285-E2292.	7.1	139

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37	Temperature Effects on Cotton Seedling Emergence, Growth, and Development. <i>Agronomy Journal</i> , 2017, 109, 1379-1387.	1.8	52
38	An intercomparison of multidecadal observational and reanalysis data sets for global total ozone trends and variability analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 7119-7139.	3.3	9
39	Global consistency check of AIRS and IASI total CO2 column concentrations using WDCGG ground-based measurements. <i>Frontiers of Earth Science</i> , 2017, 11, 1-10.	2.1	16
40	Integrating multiple vegetation indices via an artificial neural network model for estimating the leaf chlorophyll content of <i>Spartina alterniflora</i> under interspecies competition. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 596.	2.7	10
41	The signature of sea surface temperature anomalies on the dynamics of semiarid grassland productivity. <i>Ecosphere</i> , 2017, 8, e02069.	2.2	27
42	Using deep recurrent neural network for direct beam solar irradiance cloud screening. , 2017, , .		2
43	Simulation of the effects of photodecay on long-term litter decay using DayCent. <i>Ecosphere</i> , 2016, 7, e01631.	2.2	22
44	Interactive effects on CO2, drought, and ultraviolet-B radiation on maize growth and development. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 160, 198-209.	3.8	52
45	Statistical bias correction for creating coherent total ozone record from OMI and OMPS observations. <i>Remote Sensing of Environment</i> , 2016, 182, 150-168.	11.0	35
46	Interactive effects of carbon dioxide, low temperature, and ultraviolet-B radiation on cotton seedling root and shoot morphology and growth. <i>Frontiers of Earth Science</i> , 2016, 10, 607-620.	2.1	29
47	In-situ calibration of the water vapor channel for multi-filter rotating shadowband radiometer using collocated GPS, AERONET and meteorology data. , 2016, , .		1
48	Two-stage reference channel calibration for collocated UV and VIS Multi-Filter Rotating Shadowband Radiometers. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
49	Analysis of spatio-temporal variability of aerosol optical depth with empirical orthogonal functions in the Changjiang River Delta, China. <i>Frontiers of Earth Science</i> , 2015, 9, 1-12.	2.1	9
50	Comparison of Suomi-NPP OMPS total column ozone with Brewer and Dobson spectrophotometers measurements. <i>Frontiers of Earth Science</i> , 2015, 9, 369-380.	2.1	11
51	A DInSAR Investigation of the Ground Settlement Time Evolution of Ocean-Reclaimed Lands in Shanghai. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 1763-1781.	4.9	48
52	A New Cloud Screening Algorithm for Ground-Based Direct-Beam Solar Radiation. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014, 31, 2591-2605.	1.3	6
53	MODIS Consistent Vegetation Parameter Specifications and Their Impacts on Regional Climate Simulations. <i>Journal of Climate</i> , 2014, 27, 8578-8596.	3.2	16
54	The responses of vegetation water content (EWT) and assessment of drought monitoring along a coastal region using remote sensing. <i>GIScience and Remote Sensing</i> , 2014, 51, 1-16.	5.9	25

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55	Regional climate model downscaling may improve the prediction of alien plant species distributions. <i>Frontiers of Earth Science</i> , 2014, 8, 457-471.	2.1	8
56	A regional climate model downscaling projection of China future climate change. <i>Climate Dynamics</i> , 2013, 41, 1871-1884.	3.8	40
57	Algae (<i>Microcystis</i> and <i>Scenedesmus</i>) absorption spectra and its application on Chlorophyll a retrieval. <i>Frontiers of Earth Science</i> , 2013, 7, 522-530.	2.1	5
58	The calibration methods for Multi-Filter Rotating Shadowband Radiometer: a review. <i>Frontiers of Earth Science</i> , 2013, 7, 257-270.	2.1	11
59	Comparison of aerosol optical depth of UV-B monitoring and research program (LVMRP), AERONET and MODIS over continental united states. <i>Frontiers of Earth Science</i> , 2013, 7, 129-140.	2.1	3
60	Analysis of air quality variability in Shanghai using AOD and API data in the recent decade. <i>Frontiers of Earth Science</i> , 2013, 7, 159-168.	2.1	9
61	Analysis trends of ultraviolet B fluxes in the continental US with USDA and TOMS data. , 2013, , .		0
62	Sensitivity studies of high-precision methane column concentration inversion using a line-by-line radiative transfer model. <i>Frontiers of Earth Science</i> , 2013, 7, 439-446.	2.1	1
63	The spatio-temporal responses of the carbon cycle to climate and land use/land cover changes between 1981â€“2000 in China. <i>Frontiers of Earth Science</i> , 2013, 7, 92-102.	2.1	10
64	Quantifying Corn Growth and Physiological Responses to Ultravioletâ€“B Radiation for Modeling. <i>Agronomy Journal</i> , 2013, 105, 1367-1377.	1.8	34
65	Regional Climateâ€“Weather Research and Forecasting Model. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 1363-1387.	3.3	129
66	Spatial Statistical Analyses of Global Trends of Ultraviolet B Fluxes in the Continental United States. <i>GIScience and Remote Sensing</i> , 2012, 49, 735-754.	5.9	3
67	Evaluation of the combined risk of sea level rise, land subsidence, and storm surges on the coastal areas of Shanghai, China. <i>Climatic Change</i> , 2012, 115, 537-558.	3.6	217
68	Physical Modeling of U.S. Cotton Yields and Climate Stresses during 1979 to 2005. <i>Agronomy Journal</i> , 2012, 104, 675-683.	1.8	18
69	A Distributed Cotton Growth Model Developed from GOSSYM and Its Parameter Determination. <i>Agronomy Journal</i> , 2012, 104, 661-674.	1.8	16
70	InSAR detection of residual settlement of an ocean reclamation engineering project: a case study of Hong Kong International Airport. <i>Journal of Oceanography</i> , 2011, 67, 415-426.	1.7	34
71	Regional Climate Model Simulations of the 1998 Summer China Flood: Dependence on Initial and Lateral Boundary Conditions. <i>The Open Atmospheric Science Journal</i> , 2011, 5, 96-105.	0.5	4
72	Skin cancer incidence is highly associated with ultraviolet-B radiation history. <i>International Journal of Hygiene and Environmental Health</i> , 2010, 213, 359-368.	4.3	47

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73	Moisture availability influences the effect of ultraviolet radiation on leaf litter decomposition. <i>Global Change Biology</i> , 2010, 16, 484-495.	9.5	81
74	Detection of Multidecadal Changes in UVB and Total Ozone Concentrations over the Continental US with NASA TOMS Data and USDA Ground-Based Measurements. <i>Remote Sensing</i> , 2010, 2, 262-277.	4.0	5
75	An Ultraviolet Radiation Monitoring and Research Program for Agriculture. , 2010, , 205-243.		4
76	Current and future impacts of ultraviolet radiation on the terrestrial carbon balance. <i>Frontiers of Earth Science</i> , 2009, 3, 34-41.	0.5	9
77	Estimation of winter wheat biomass based on remote sensing data at various spatial and spectral resolutions. <i>Frontiers of Earth Science</i> , 2009, 3, 118-128.	0.5	27
78	China summer precipitation simulations using an optimal ensemble of cumulus schemes. <i>Frontiers of Earth Science</i> , 2009, 3, 248-257.	0.5	8
79	UV-B effects on the nutritional chemistry of plants and the responses of a mammalian herbivore. <i>Oecologia</i> , 2008, 156, 125-135.	2.0	9
80	USDA UV-B monitoring system: An application of centralized architecture. <i>Computers and Electronics in Agriculture</i> , 2008, 64, 326-332.	7.7	4
81	Estimation of Pedestrian Level UV Exposure Under Trees. <i>Photochemistry and Photobiology</i> , 2007, 75, 369-376.	2.5	4
82	Effects of Enhanced UV-B Radiation on Plant Chemistry: Nutritional Consequences for a Specialist and Generalist Lagomorph. <i>Journal of Chemical Ecology</i> , 2007, 33, 1025-1039.	1.8	18
83	Spectral distribution of UV-B irradiance derived by synthetic model compared with simulation results of TUV and ground measurements. , 2006, 6298, 153.		0
84	Preliminary results of a UV-B effect incorporated GOSSYM model. , 2006, , .		0
85	Validation of the TUV module in CWRP using USDA-UVB network observations. , 2006, , .		3
86	Preliminary results of the coupled CWRP-GOSSYM system. , 2005, 5884, 68.		6
87	Physiological causes of cotton fruit abscission under conditions of high temperature and enhanced ultraviolet-B radiation. <i>Physiologia Plantarum</i> , 2005, 124, 189-199.	5.2	62
88	Biologically effective UV-B exposures of an oak-hickory forest understory during leaf-out. <i>Agricultural and Forest Meteorology</i> , 2005, 132, 28-43.	4.8	20
89	Development of land surface albedo parameterization based on Moderate Resolution Imaging Spectroradiometer (MODIS) data. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	81
90	Interactive Effects of Ultraviolet-B Radiation and Temperature on Cotton Physiology, Growth, Development and Hyperspectral Reflectance. <i>Photochemistry and Photobiology</i> , 2004, 79, 416.	2.5	72

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91	Senescence and hyperspectral reflectance of cotton leaves exposed to ultraviolet-B radiation and carbon dioxide. <i>Physiologia Plantarum</i> , 2004, 121, 250-257.	5.2	103
92	Leaf and canopy photosynthetic characteristics of cotton (<i>Gossypium hirsutum</i>) under elevated CO ₂ concentration and UV-B radiation. <i>Journal of Plant Physiology</i> , 2004, 161, 581-590.	3.5	57
93	Impact of cloud cover on erythemal UV-B exposure under vegetation canopies. , 2004, , .		3
94	Effects of Supplementary Ultraviolet-B Irradiance on Maize Yield and Qualities: A Field Experiment. <i>Photochemistry and Photobiology</i> , 2004, 80, 127.	2.5	58
95	Ultraviolet Radiation and Terrestrial Ecosystems. <i>Photochemistry and Photobiology</i> , 2004, 79, 379-381.	2.5	2
96	Effects of Supplementary Ultraviolet-B Irradiance on Maize Yield and Qualities: A Field Experiment. <i>Photochemistry and Photobiology</i> , 2004, 80, 127-131.	2.5	2
97	Impact of enhanced ultraviolet-B irradiance on cotton growth, development, yield, and qualities under field conditions. <i>Agricultural and Forest Meteorology</i> , 2003, 120, 241-248.	4.8	46
98	Yield and yield formation of field winter wheat in response to supplemental solar ultraviolet-B radiation. <i>Agricultural and Forest Meteorology</i> , 2003, 120, 279-283.	4.8	31
99	Individual- and scattered-tree influences on ultraviolet irradiance. <i>Agricultural and Forest Meteorology</i> , 2003, 120, 113-126.	4.8	29
100	Ultraviolet leaf reflectance of common urban trees and the prediction of reflectance from leaf surface characteristics. <i>Agricultural and Forest Meteorology</i> , 2003, 120, 127-139.	4.8	98
101	Ultraviolet-B radiation in a row-crop canopy: an extended 1-D model. <i>Agricultural and Forest Meteorology</i> , 2003, 120, 141-151.	4.8	7
102	Cotton responses to ultraviolet-B radiation: experimentation and algorithm development. <i>Agricultural and Forest Meteorology</i> , 2003, 120, 249-265.	4.8	44
103	Sustainability of vegetation over northwest China: Climate response to grassland. , 2003, , .		2
104	Inclusion of an ultraviolet radiation transfer component in an urban forest effects model for predicting tree influences on potential below-canopy exposure to UVB radiation. , 2003, , .		4
105	<title>Modeling ultraviolet-B radiation in a maize canopy</title>. , 2002, , .		2
106	<title>Calculating solar ultraviolet radiation by computational models in Nanjing region</title>. , 2002, , .		3
107	Estimation of Pedestrian Level UV Exposure Under Trees. <i>Photochemistry and Photobiology</i> , 2002, 75, 369.	2.5	41
108	A Geometric Ultraviolet-B Radiation Transfer Model Applied to Vegetation Canopies. <i>Agronomy Journal</i> , 2002, 94, 475-482.	1.8	21

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109	A Geometric Ultraviolet-B Radiation Transfer Model Applied to Vegetation Canopies. Agronomy Journal, 2002, 94, 475.	1.8	4
110	Direct-Sun column ozone retrieval by the ultraviolet multifilter rotating shadow-band radiometer and comparison with those from Brewer and Dobson spectrophotometers. Applied Optics, 2001, 40, 3149.	2.1	46
111	Photosynthetically-active radiation: sky radiance distributions under clear and overcast conditions. Agricultural and Forest Meteorology, 1996, 82, 267-292.	4.8	68