Wei Gao

List of Publications by Year in descending order

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	159585	206112
2,832	30	48
citations	h-index	g-index
113	113	3428
docs citations	times ranked	citing authors
		2,832 30 citations h-index 113 113

#	Article	IF	CITATIONS
1	Evaluation of the combined risk of sea level rise, land subsidence, and storm surges on the coastal areas of Shanghai, China. Climatic Change, 2012, 115, 537-558.	3.6	217
2	Determining climate effects on US total agricultural productivity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2285-E2292.	7.1	139
3	Regional Climate–Weather Research and Forecasting Model. Bulletin of the American Meteorological Society, 2012, 93, 1363-1387.	3.3	129
4	Senescence and hyperspectral reflectance of cotton leaves exposed to ultraviolet-B radiation and carbon dioxide. Physiologia Plantarum, 2004, 121, 250-257.	5.2	103
5	Ultraviolet leaf reflectance of common urban trees and the prediction of reflectance from leaf surface characteristics. Agricultural and Forest Meteorology, 2003, 120, 127-139.	4.8	98
6	Development of land surface albedo parameterization based on Moderate Resolution Imaging Spectroradiometer (MODIS) data. Journal of Geophysical Research, 2005, 110, .	3.3	81
7	Moisture availability influences the effect of ultravioletâ€B radiation on leaf litter decomposition. Global Change Biology, 2010, 16, 484-495.	9.5	81
8	Interactive Effects of Ultraviolet-B Radiation and Temperature on Cotton Physiology, Growth, Development and Hyperspectral Reflectance¶. Photochemistry and Photobiology, 2004, 79, 416.	2.5	72
9	Photosynthetically-active radiation: sky radiance distributions under clear and overcast conditions. Agricultural and Forest Meteorology, 1996, 82, 267-292.	4.8	68
10	Satellite remote sensing of aerosol optical depth: advances, challenges, and perspectives. Critical Reviews in Environmental Science and Technology, 2020, 50, 1640-1725.	12.8	68
11	Drought stress has transgenerational effects on soybean seed germination and seedling vigor. PLoS ONE, 2019, 14, e0214977.	2.5	65
12	Physiological causes of cotton fruit abscission under conditions of high temperature and enhanced ultraviolet-B radiation. Physiologia Plantarum, 2005, 124, 189-199.	5.2	62
13	Effects of Supplementary Ultraviolet-B Irradiance on Maize Yield and Qualities: A Field Experiment¶. Photochemistry and Photobiology, 2004, 80, 127.	2.5	58
14	Leaf and canopy photosynthetic characteristics of cotton (Gossypium hirsutum) under elevated CO2 concentration and UV-B radiation. Journal of Plant Physiology, 2004, 161, 581-590.	3.5	57
15	Spatiotemporal trend analysis for fine particulate matter concentrations in China using high-resolution satellite-derived and ground-measured PM2.5 data. Journal of Environmental Management, 2019, 233, 530-542.	7.8	55
16	Evaluating Soybean Cultivars for Low- and High-Temperature Tolerance During the Seedling Growth Stage. Agronomy, 2019, 9, 13.	3.0	53
17	Interactive effects on CO2, drought, and ultraviolet-B radiation on maize growth and development. Journal of Photochemistry and Photobiology B: Biology, 2016, 160, 198-209.	3.8	52
18	Temperature Effects on Cotton Seedling Emergence, Growth, and Development. Agronomy Journal, 2017, 109, 1379-1387.	1.8	52

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19	A DInSAR Investigation of the Ground Settlement Time Evolution of Ocean-Reclaimed Lands in Shanghai. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 1763-1781.	4.9	48
20	Skin cancer incidence is highly associated with ultraviolet-B radiation history. International Journal of Hygiene and Environmental Health, 2010, 213, 359-368.	4.3	47
21	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
22	Impact of enhanced ultraviolet-B irradiance on cotton growth, development, yield, and qualities under field conditions. Agricultural and Forest Meteorology, 2003, 120, 241-248.	4.8	46
23	Physiological assessment of water deficit in soybean using midday leaf water potential and spectral features. Journal of Plant Interactions, 2019, 14, 533-543.	2.1	46
24	Cotton responses to ultraviolet-B radiation: experimentation and algorithm development. Agricultural and Forest Meteorology, 2003, 120, 249-265.	4.8	44
25	Estimation of Pedestrian Level UV Exposure Under Trees¶. Photochemistry and Photobiology, 2002, 75, 369.	2.5	41
26	A regional climate model downscaling projection of China future climate change. Climate Dynamics, 2013, 41, 1871-1884.	3.8	40
27	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. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 154, 10-27.	11.1	40
28	Statistical bias correction for creating coherent total ozone record from OMI and OMPS observations. Remote Sensing of Environment, 2016, 182, 150-168.	11.0	35
29	InSAR detection of residual settlement of an ocean reclamation engineering project: a case study of Hong Kong International Airport. Journal of Oceanography, 2011, 67, 415-426.	1.7	34
30	Quantifying Corn Growth and Physiological Responses to Ultravioletâ€8 Radiation for Modeling. Agronomy Journal, 2013, 105, 1367-1377.	1.8	34
31	Advancing the prediction accuracy of satellite-based PM2.5 concentration mapping: A perspective of data mining through in situ PM2.5 measurements. Environmental Pollution, 2019, 254, 113047.	7. 5	32
32	Yield and yield formation of field winter wheat in response to supplemental solar ultraviolet-B radiation. Agricultural and Forest Meteorology, 2003, 120, 279-283.	4.8	31
33	Developing functional relationships between temperature and soybean yield and seed quality. Agronomy Journal, 2020, 112, 194-204.	1.8	31
34	Individual- and scattered-tree influences on ultraviolet irradiance. Agricultural and Forest Meteorology, 2003, 120, 113-126.	4.8	29
35	Interactive effects of carbon dioxide, low temperature, and ultraviolet-B radiation on cotton seedling root and shoot morphology and growth. Frontiers of Earth Science, 2016, 10, 607-620.	2.1	29
36	Estimation of winter wheat biomass based on remote sensing data at various spatial and spectral resolutions. Frontiers of Earth Science, 2009, 3, 118-128.	0.5	27

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37	The signature of sea surface temperature anomalies on the dynamics of semiarid grassland productivity. Ecosphere, 2017, 8, e02069.	2.2	27
38	Low and high-temperature effects on sweetpotato storage root initiation and early transplant establishment. Scientia Horticulturae, 2018, 240, 38-48.	3.6	26
39	Assessing precipitation, evapotranspiration, and <scp>NDVI</scp> as controls of U.S. Great Plains plant production. Ecosphere, 2019, 10, e02889.	2.2	26
40	The responses of vegetation water content (EWT) and assessment of drought monitoring along a coastal region using remote sensing. GIScience and Remote Sensing, 2014, 51, 1-16.	5.9	25
41	Simulation of the effects of photodecay on longâ€ŧerm litter decay using DayCent. Ecosphere, 2016, 7, e01631.	2.2	22
42	Seasonal grassland productivity forecast for the U.S. Great Plains using Grass ast. Ecosphere, 2020, 11, e03280.	2.2	22
43	A Geometric Ultravioletâ€B Radiation Transfer Model Applied to Vegetation Canopies. Agronomy Journal, 2002, 94, 475-482.	1.8	21
44	Biologically effective UV-B exposures of an oak-hickory forest understory during leaf-out. Agricultural and Forest Meteorology, 2005, 132, 28-43.	4.8	20
45	Effects of Enhanced UV-B Radiation on Plant Chemistry: Nutritional Consequences for a Specialist and Generalist Lagomorph. Journal of Chemical Ecology, 2007, 33, 1025-1039.	1.8	18
46	Physical Modeling of U.S. Cotton Yields and Climate Stresses during 1979 to 2005. Agronomy Journal, 2012, 104, 675-683.	1.8	18
47	Morpho-Physiological Characterization of Diverse Rice Genotypes for Seedling Stage High- and Low-Temperature Tolerance. Agronomy, 2021, 11, 112.	3.0	17
48	A Distributed Cotton Growth Model Developed from GOSSYM and Its Parameter Determination. Agronomy Journal, 2012, 104, 661-674.	1.8	16
49	MODIS Consistent Vegetation Parameter Specifications and Their Impacts on Regional Climate Simulations. Journal of Climate, 2014, 27, 8578-8596.	3.2	16
50	Global consistency check of AIRS and IASI total CO2 column concentrations using WDCGG ground-based measurements. Frontiers of Earth Science, 2017, 11, 1-10.	2.1	16
51	Yield, Physiological Performance, and Phytochemistry of Basil (Ocimum basilicum L.) under Temperature Stress and Elevated CO2 Concentrations. Plants, 2021, 10, 1072.	3.5	15
52	Photodegradation accelerates ecosystem N cycling in a simulated California grassland. Ecosphere, 2018, 9, e02370.	2.2	14
53	Diagnosing atmospheric stability effects on the modeling accuracy of PM2.5 /AOD relationship in eastern China using radiosonde data. Environmental Pollution, 2019, 251, 380-389.	7.5	14
54	Estimating leaf chlorophyll contents by combining multiple spectral indices with an artificial neural network. Earth Science Informatics, 2018, 11, 147-156.	3.2	13

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55	Drought and Elevated CO2 Impacts Photosynthesis and Biochemicals of Basil (Ocimum basilicum L.). Stresses, 2021, 1, 223-237.	4.8	13
56	The calibration methods for Multi-Filter Rotating Shadowband Radiometer: a review. Frontiers of Earth Science, 2013, 7, 257-270.	2.1	11
57	Comparison of Suomi-NPP OMPS total column ozone with Brewer and Dobson spectrophotometers measurements. Frontiers of Earth Science, 2015, 9, 369-380.	2.1	11
58	Development of the DayCent-Photo model and integration of variable photosynthetic capacity. Frontiers of Earth Science, 2018, 12, 765-778.	2.1	11
59	Multi-source hierarchical data fusion for high-resolution AOD mapping in a forest fire event. International Journal of Applied Earth Observation and Geoinformation, 2021, 102, 102366.	2.8	11
60	The spatio-temporal responses of the carbon cycle to climate and land use/land cover changes between 1981–2000 in China. Frontiers of Earth Science, 2013, 7, 92-102.	2.1	10
61	Integrating multiple vegetation indices via an artificial neural network model for estimating the leaf chlorophyll content of Spartina alterniflora under interspecies competition. Environmental Monitoring and Assessment, 2017, 189, 596.	2.7	10
62	Interactive Impacts of Temperature and Elevated CO2 on Basil (Ocimum basilicum L.) Root and Shoot Morphology and Growth. Horticulturae, 2021, 7, 112.	2.8	10
63	UV-B effects on the nutritional chemistry of plants and the responses of a mammalian herbivore. Oecologia, 2008, 156, 125-135.	2.0	9
64	Current and future impacts of ultraviolet radiation on the terrestrial carbon balance. Frontiers of Earth Science, 2009, 3, 34-41.	0.5	9
65	Analysis of air quality variability in Shanghai using AOD and API data in the recent decade. Frontiers of Earth Science, 2013, 7, 159-168.	2.1	9
66	Analysis of spatio-temporal variability of aerosol optical depth with empirical orthogonal functions in the Changjiang River Delta, China. Frontiers of Earth Science, 2015, 9, 1-12.	2.1	9
67	An intercomparison of multidecadal observational and reanalysis data sets for global total ozone trends and variability analysis. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7119-7139.	3.3	9
68	Intercomparison of CALIOP, MODIS, and AERONET aerosol optical depth over China during the past decade. International Journal of Remote Sensing, 2018, 39, 7251-7275.	2.9	9
69	Alterations in the leaf lipidome of Brassica carinata under high-temperature stress. BMC Plant Biology, 2021, 21, 404.	3.6	9
70	China summer precipitation simulations using an optimal ensemble of cumulus schemes. Frontiers of Earth Science, 2009, 3, 248-257.	0.5	8
71	Regional climate model downscaling may improve the prediction of alien plant species distributions. Frontiers of Earth Science, 2014, 8, 457-471.	2.1	8
72	Parental Environmental Effects on Seed Quality and Germination Response to Temperature of Andropogon gerardii. Agronomy, 2019, 9, 304.	3.0	8

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73	Ultraviolet-B radiation in a row-crop canopy: an extended 1-D model. Agricultural and Forest Meteorology, 2003, 120, 141-151.	4.8	7
74	Projected day/night temperatures specifically limits rubisco activity and electron transport in diverse rice cultivars. Environmental and Experimental Botany, 2019, 159, 191-199.	4.2	7
75	Ensemble Learning via Higher Order Singular Value Decomposition for Integrating Data and Classifier Fusion in Water Quality Monitoring. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 3345-3360.	4.9	7
76	Preliminary results of the coupled CWRF-GOSSYM system. , 2005, 5884, 68.		6
77	A New Cloud Screening Algorithm for Ground-Based Direct-Beam Solar Radiation. Journal of Atmospheric and Oceanic Technology, 2014, 31, 2591-2605.	1.3	6
78	Drought and Elevated Carbon Dioxide Impact the Morphophysiological Profile of Basil (Ocimum) Tj ETQq0 0 0 rg	gBT/Qverl	ock ₆ 10 Tf 50 !
79	Detection of Multidecadal Changes in UVB and Total Ozone Concentrations over the Continental US with NASA TOMS Data and USDA Ground-Based Measurements. Remote Sensing, 2010, 2, 262-277.	4.0	5
80	Algae (Microcystis and Scenedesmus) absorption spectra and its application on Chlorophyll a retrieval. Frontiers of Earth Science, 2013, 7, 522-530.	2.1	5
81	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
82	Estimation of Pedestrian Level UV Exposure Under Trees $\hat{A}\P$. Photochemistry and Photobiology, 2007, 75, 369-376.	2.5	4
83	USDA UV-B monitoring system: An application of centralized architecture. Computers and Electronics in Agriculture, 2008, 64, 326-332.	7.7	4
84	Estimating Error Covariance and Correlation Region in UV Irradiance Data Fusion by Combining TOMS-OMI and UVMRP Ground Observations. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 355-370.	6.3	4
85	A novel method for leaf chlorophyll retrieval based on harmonic analysis: a case study on Spartina alterniflora. Earth Science Informatics, 2020, 13, 747-762.	3.2	4
86	An Ultraviolet Radiation Monitoring and Research Program for Agriculture., 2010,, 205-243.		4
87	Reconstruct missing pixels of Landsat land surface temperature product using a CNN with partial convolution. , 2019, , .		4
88	A Geometric Ultraviolet-B Radiation Transfer Model Applied to Vegetation Canopies. Agronomy Journal, 2002, 94, 475.	1.8	4
89	Regional Climate Model Simulations of the 1998 Summer China Flood: Dependence on Initial and Lateral Boundary Conditions. The Open Atmospheric Science Journal, 2011, 5, 96-105.	0.5	4
90	<title>Calculating solar ultraviolet radiation by computational models in Nanjing region $<$ /title>. , 2002, , .		3

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91	Impact of cloud cover on erythemal UV-B exposure under vegetation canopies. , 2004, , .		3
92	Validation of the TUV module in CWRF using USDA-UVB network observations. , 2006, , .		3
93	Spatial Statistical Analyses of Global Trends of Ultraviolet B Fluxes in the Continental United States. GIScience and Remote Sensing, 2012, 49, 735-754.	5.9	3
94	Comparison of aerosol optical depth of UV-B monitoring and research program (UVMRP), AERONET and MODIS over continental united states. Frontiers of Earth Science, 2013, 7, 129-140.	2.1	3
95	<title>Modeling ultraviolet-B radiation in a maize canopy</title> ., 2002, , .		2
96	Sustainability of vegetation over northwest China:I. Climate response to grassland., 2003,,.		2
97	Ultraviolet Radiation and Terrestrial Ecosystems ^{â€} . Photochemistry and Photobiology, 2004, 79, 379-381.	2.5	2
98	Effects of Suplementary Ultravioletâ€B Irradiance on Maize Yield and Qualities: A Field Experiment [¶] . Photochemistry and Photobiology, 2004, 80, 127-131.	2.5	2
99	Missing Pixel Reconstruction on Landsat 8 Analysis Ready Data Land Surface Temperature Image Patches Using Source-Augmented Partial Convolution. Remote Sensing, 2020, 12, 3143.	4.0	2
100	Using deep recurrent neural network for direct beam solar irradiance cloud screening. , 2017, , .		2
101	Individual and Interactive Temporal Implications of UV-B Radiation and Elevated CO2 on the Morphology of Basil (Ocimum basilicum L.). Horticulturae, 2021, 7, 474.	2.8	2
102	Sensitivity studies of high-precision methane column concentration inversion using a line-by-line radiative transfer model. Frontiers of Earth Science, 2013, 7, 439-446.	2.1	1
103	Two-stage reference channel calibration for collocated UV and VIS Multi-Filter Rotating Shadowband Radiometers. Proceedings of SPIE, 2015, , .	0.8	1
104	In-situ calibration of the water vapor channel for multi-filter rotating shadowband radiometer using collocated GPS, AERONET and meteorology data. , 2016, , .		1
105	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. Atmospheric Measurement Techniques, 2019, 12, 935-953.	3.1	1
106	Adaptive bias correction of advanced infrared sounding radiance assimilation in a regional model and its impact on typhoon forecast. Journal of Applied Remote Sensing, 2018, 12, 1.	1.3	1
107	Individual and Interactive Effects of Multiple Abiotic Stress Treatments on Early-Season Growth and Development of Two Brassica Species. Agriculture (Switzerland), 2022, 12, 453.	3.1	1
108	Spectral distribution of UV-B irradiance derived by synthetic model compared with simulation results of TUV and ground measurements., 2006, 6298, 153.		0

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109	Preliminary results of a UV-B effect incorporated GOSSYM model. , 2006, , .		O
110	Analysis trends of ultraviolet B fluxes in the continental US with USDA and TOMS data. , $2013, \ldots$		0
111	Land/Atmosphere/Water Interactions. , 2021, , 245-278.		O