

Zhibo Zhang

List of Publications by Year in descending order

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papers

1,640
citations

430874

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302126

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#	ARTICLE	IF	CITATIONS
1	The MODIS Cloud Optical and Microphysical Products: Collection 6 Updates and Examples From Terra and Aqua. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 502-525.	6.3	489
2	Remote Sensing of Droplet Number Concentration in Warm Clouds: A Review of the Current State of Knowledge and Perspectives. <i>Reviews of Geophysics</i> , 2018, 56, 409-453.	23.0	185
3	Potato viruses in China. <i>Crop Protection</i> , 2011, 30, 1117-1123.	2.1	92
4	Biomass smoke from southern Africa can significantly enhance the brightness of stratocumulus over the southeastern Atlantic Ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2924-2929.	7.1	81
5	Frequency and causes of failed MODIS cloud property retrievals for liquid phase clouds over global oceans. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 4132-4154.	3.3	78
6	Estimates of African Dust Deposition Along the Transatlantic Transit Using the Decadelong Record of Aerosol Measurements from CALIOP, MODIS, MISR, and IASI. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7975-7996.	3.3	68
7	Shortwave direct radiative effects of above-cloud aerosols over global oceans derived from 8 years of CALIOP and MODIS observations. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2877-2900.	4.9	59
8	Seasonally transported aerosol layers over southeast Atlantic are closer to underlying clouds than previously reported. <i>Geophysical Research Letters</i> , 2017, 44, 5818-5825.	4.0	51
9	Cryopreservation of sweetpotato (<i>Ipomoea batatas</i>) and its pathogen eradication by cryotherapy. <i>Biotechnology Advances</i> , 2011, 29, 84-93.	11.7	42
10	Novel and potential application of cryopreservation to plant genetic transformation. <i>Biotechnology Advances</i> , 2012, 30, 604-612.	11.7	34
11	Subgrid variations of the cloud water and droplet number concentration over the tropical ocean: satellite observations and implications for warm rain simulations in climate models. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1077-1096.	4.9	26
12	Potato leafroll virus (PLRV) and Potato virus Y (PVY) influence vegetative growth, physiological metabolism, and microtuber production of in vitro-grown shoots of potato (<i>Solanum tuberosum</i> L.). <i>Plant Cell, Tissue and Organ Culture</i> , 2013, 114, 313-324.	2.3	25
13	A novel hybrid scattering order-dependent variance reduction method for Monte Carlo simulations of radiative transfer in cloudy atmosphere. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 189, 283-302.	2.3	23
14	Warming effect of dust aerosols modulated by overlapping clouds below. <i>Atmospheric Environment</i> , 2017, 166, 393-402.	4.1	23
15	Invasion of shoot apical meristems by <i>Chrysanthemum</i> stunt viroid differs among <i>Argyranthemum</i> cultivars. <i>Frontiers in Plant Science</i> , 2015, 6, 53.	3.6	22
16	Droplet-vitrification for shoot tip cryopreservation of shallot (<i>Allium cepa</i> var. <i>aggregatum</i>): effects of PVS3 and PVS2 on shoot regrowth. <i>Plant Cell, Tissue and Organ Culture</i> , 2020, 140, 185-195.	2.3	22
17	Epigenetic and Genetic Integrity, Metabolic Stability, and Field Performance of Cryopreserved Plants. <i>Plants</i> , 2021, 10, 1889.	3.5	22
18	An Evaluation of Marine Boundary Layer Cloud Property Simulations in the Community Atmosphere Model Using Satellite Observations: Conventional Subgrid Parameterization versus CLUBB. <i>Journal of Climate</i> , 2018, 31, 2299-2320.	3.2	21

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19	Evaluation of autoconversion and accretion enhancement factors in general circulation model warm-rain parameterizations using ground-based measurements over the Azores. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17405-17420.	4.9	21
20	Estimating precipitation susceptibility in warm marine clouds using multi-sensor aerosol and cloud products from A-Train satellites. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1763-1783.	4.9	18
21	Growth, microtuber production and physiological metabolism in virus-free and virus-infected potato in vitro plantlets grown under NaCl-induced salt stress. <i>European Journal of Plant Pathology</i> , 2018, 152, 417-432.	1.7	18
22	Intercomparisons of marine boundary layer cloud properties from the ARM CAP+EMBL campaign and two MODIS cloud products. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2351-2365.	3.3	16
23	A Deterministic Self-Organizing Map Approach and its Application on Satellite Data based Cloud Type Classification. , 2018, , .		16
24	In vitro therapies for virus elimination of potato-valuable germplasm in Norway. <i>Scientia Horticulturae</i> , 2019, 249, 7-14.	3.6	16
25	Field performance evaluation and genetic integrity assessment in <i>Argyranthemum</i> "Yellow Empire"™ plants recovered from cryopreserved shoot tips. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2015, 51, 505-513.	2.1	15
26	Cryopreservation and evaluations of vegetative growth, microtuber production and genetic stability in regenerants of purple-fleshed potato. <i>Plant Cell, Tissue and Organ Culture</i> , 2017, 128, 641-653.	2.3	14
27	Marine boundary layer cloud property retrievals from high-resolution ASTER observations: case studies and comparison with Terra MODIS. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 5869-5894.	3.1	14
28	An Assessment of the Impacts of Cloud Vertical Heterogeneity on Global Ice Cloud Data Records From Passive Satellite Retrievals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1578-1595.	3.3	13
29	Cryotherapy: A Novel Method for Virus Eradication in Economically Important Plant Species. <i>Methods in Molecular Biology</i> , 2018, 1815, 257-268.	0.9	12
30	Retrieval of liquid water cloud properties from POLDER-3 measurements using a neural network ensemble approach. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 1697-1716.	3.1	11
31	Synergetic Satellite Trend Analysis of Aerosol and Warm Cloud Properties over Ocean and Its Implication for Aerosol-Cloud Interactions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031598.	3.3	11
32	Long-term preservation of potato leafroll virus, potato virus S, and potato spindle tuber viroid in cryopreserved shoot tips. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 10743-10754.	3.6	10
33	Theoretical extension of universal forward and backward Monte Carlo radiative transfer modeling for passive and active polarization observation simulations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 235, 81-94.	2.3	10
34	Vertical profiles of droplet size distributions derived from cloud-side observations by the research scanning polarimeter: Tests on simulated data. <i>Atmospheric Research</i> , 2020, 239, 104924.	4.1	10
35	First Report of Tomato Brown Rugose Fruit Virus in Tomato in Norway. <i>Plant Disease</i> , 2022, 106, 2004.	1.4	10
36	Assessments of rooting, vegetative growth, bulb production, genetic integrity and biochemical compounds in cryopreserved plants of shallot. <i>Plant Cell, Tissue and Organ Culture</i> , 2021, 144, 123-131.	2.3	8

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37	Viroid Elimination by Thermootherapy, Cold Therapy, Tissue Culture, In Vitro Micrografting, or Cryotherapy. , 2017, , 425-435.		7
38	Combining thermootherapy with meristem culture for improved eradication of onion yellow dwarf virus and shallot latent virus from infected in vitro cultured shallot shoots. Annals of Applied Biology, 2021, 178, 442-449.	2.5	7
39	Production of Pathogen-Free Horticultural Crops by Cryotherapy of In Vitro-Grown Shoot Tips. Methods in Molecular Biology, 2012, 11013, 463-482.	0.9	6
40	Double edged effects of the cryogenic technique for virus eradication and preservation in shallot shoot tips. Plant Pathology, 2022, 71, 494-504.	2.4	5
41	Known and Potential Invertebrate Vectors of Raspberry Viruses. Viruses, 2022, 14, 571.	3.3	5
42	Low Temperature Treatment Affects Concentration and Distribution of Chrysanthemum Stunt Viroid in Argyranthemum. Frontiers in Microbiology, 2016, 7, 224.	3.5	3
43	Using polarimetric observations to detect and quantify the three-dimensional radiative transfer effects in passive satellite cloud property retrievals: Theoretical framework and feasibility study. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 246, 106920.	2.3	1