Feng Zhang

List of Publications by Year
in descending order

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Version: 2024-02-01

65 papers	955 citations	516710 16 h-index	526287 27 g-index
67 all docs	67 docs citations	67 times ranked	1029 citing authors

#	Article	IF	Citations
1	CloudNet: Groundâ€Based Cloud Classification With Deep Convolutional Neural Network. Geophysical Research Letters, 2018, 45, 8665-8672.	4.0	141
2	Future Drought in the Dry Lands of Asia Under the 1.5 and 2.0ÂÂ°C Warming Scenarios. Earth's Future, 2020, 8, e2019EF001337.	6.3	58
3	MAX-DOAS measurements of tropospheric NO₂ and HCHO in Nanjing and a comparison to ozone monitoring instrument observations. Atmospheric Chemistry and Physics, 2019, 19, 10051-10071.	4.9	57
4	Community Integrated Earth System Model (CIESM): Description and Evaluation. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002036.	3.8	44
5	Doublingâ€“Adding Method for Delta-Four-Stream Spherical Harmonic Expansion Approximation in Radiative Transfer Parameterization. Journals of the Atmospheric Sciences, 2013, 70, 3084-3101.	1.7	42
6	Analytical Delta-Four-Stream Doublingâ€“Adding Method for Radiative Transfer Parameterizations. Journals of the Atmospheric Sciences, 2013, 70, 794-808.	1.7	36
7	Classification of Ice Crystal Habits Observed From Airborne Cloud Particle Imager by Deep Transfer Learning. Earth and Space Science, 2019, 6, 1877-1886.	2.6	36
8	Analytical Infrared Delta-Four-Stream Adding Method from Invariance Principle. Journals of the Atmospheric Sciences, 2016, 73, 4171-4188.	1.7	32
9	The colors of biomass burning aerosols in the atmosphere. Scientific Reports, 2016, 6, 28267.	3.3	28
10	A New Radiative Transfer Method for Solar Radiation in a Vertically Internally Inhomogeneous Medium. Journals of the Atmospheric Sciences, 2018, 75, 41-55.	1.7	27
11	Classification of Weather Phenomenon From Images by Using Deep Convolutional Neural Network. Earth and Space Science, 2021, 8, e2020EA001604.	2.6	26
12	Variational Iteration Method for Infrared Radiative Transfer in a Scattering Medium. Journals of the Atmospheric Sciences, 2017, 74, 419-430.	1.7	22
13	Long-term trends in Arctic surface temperature and potential causality over the last 100Âyears. Climate Dynamics, 2020, 55, 1443-1456.	3.8	21
14	Causality of global warming seen from observations: a scale analysis of driving force of the surface air temperature time series in the Northern Hemisphere. Climate Dynamics, 2016, 46, 3197-3204.	3.8	20
15	Impact of fourâ€stream radiative transfer algorithm on aerosol direct radiative effect and forcing. International Journal of Climatology, 2015, 35, 4318-4328.	3.5	18
16	Ensemble Meteorological Cloud Classification Meets Internet of Dependable and Controllable Things. IEEE Internet of Things Journal, 2021, 8, 3323-3330.	8.7	17
17	Two- and Four-Stream Combination Approximations for Computation of Diffuse Actinic Fluxes. Journals of the Atmospheric Sciences, 2010, 67, 3238-3252.	1.7	16
18	A note on double Henyeyâ€“Greenstein phase function. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 184, 40-43.	2.3	16

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19	Determination of direct normal irradiance including circumsolar radiation in climate/NWP models. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 2591-2598.	2.7	15
20	Radiative transfer in the region with solar and infrared spectra overlap. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 219, 366-378.	2.3	15
21	Alternate Mapping Correlated k-Distribution Method for Infrared Radiative Transfer Forward Simulation. Remote Sensing, 2019, 11, 994.	4.0	14
22	Simultaneously simulating the scattering properties of nonspherical aerosol particles with different sizes by the MRTD scattering model. Optics Express, 2017, 25, 17872.	3.4	12
23	On the relationship between direct and diffuse radiation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 115, 60-65.	2.3	11
24	Causality of the Drought in the Southwestern United States Based on Observations. Journal of Climate, 2017, 30, 4891-4896.	3.2	11
25	Accounting for Gaussian quadrature in four-stream radiative transfer algorithms. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 192, 1-13.	2.3	11
26	Reconstruction of driving forces from nonstationary time series including stationary regions and application to climate change. Physica A: Statistical Mechanics and Its Applications, 2017, 473, 337-343.	2.6	10
27	Light scattering computation model for nonspherical aerosol particles based on multi-resolution time-domain scheme: model development and validation. Optics Express, 2017, 25, 1463.	3.4	10
28	Larger Sensitivity of Arctic Precipitation Phase to Aerosol than Greenhouse Gas Forcing. Geophysical Research Letters, 2020, 47, e2020GL090452.	4.0	10
29	The semi-diurnal cycle of deep convective systems over Eastern China and its surrounding seas in summer based on an automatic tracking algorithm. Climate Dynamics, 2021, 56, 357-379.	3.8	10
30	Estimating Rainfall with Multi-Resource Data over East Asia Based on Machine Learning. Remote Sensing, 2021, 13, 3332.	4.0	10
31	Connections Between Stratospheric Ozone Concentrations Over the Arctic and Sea Surface Temperatures in the North Pacific. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031690.	3.3	9
32	Variation of main <scp>rainyâ€season</scp> precipitation in eastern China and relevance to regional warming. International Journal of Climatology, 2021, 41, 1767-1783.	3.5	9
33	The impact of various HITRAN molecular spectroscopic databases on infrared radiative transfer simulation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 234, 55-63.	2.3	8
34	A Novel Ground-Based Cloud Image Segmentation Method by Using Deep Transfer Learning. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	8
35	Multi-layer solar radiative transfer considering the vertical variation of inherent microphysical properties of clouds. Optics Express, 2019, 27, A1569.	3.4	8
36	Efficient radiative transfer model for thermal infrared brightness temperature simulation in cloudy atmospheres. Optics Express, 2020, 28, 25730.	3.4	8

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37	Possible mechanisms of summer cirrus clouds over the Tibetan Plateau. Atmospheric Chemistry and Physics, 2020, 20, 11799-11808.	4.9	8
38	Cloud Detection and Classification Algorithms for Himawari-8 Imager Measurements Based on Deep Learning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	8
39	The standard perturbation method for infrared radiative transfer in a vertically internally inhomogeneous scattering medium. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 213, 149-158.	2.3	7
40	The Dissipation Structure of Extratropical Cyclones. Journals of the Atmospheric Sciences, 2014, 71, 69-88.	1.7	6
41	Analytical inversion of the absorption spectrum to determine non-spherical particle size distribution. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 149, 128-137.	2.3	6
42	Comparisons of Î´-Two-Stream and Î´-Four-Stream Radiative Transfer Schemes in RRTMG for Solar Spectra. Scientific Online Letters on the Atmosphere, 2019, 15, 87-93.	1.4	6
43	An improved Eddington approximation method for irradiance calculation in a vertical inhomogeneous medium. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 226, 40-50.	2.3	6
44	Assessment of two-stream approximations in a climate model. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 225, 25-34.	2.3	6
45	Efficient design of the realization scheme of the invariant imbedding (IIM) T-matrix light scattering model for atmospheric nonspherical particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 251, 106999.	2.3	6
46	Accounting for Several Infrared Radiation Processes in Climate Models. Journal of Climate, 2019, 32, 4601-4620.	3.2	5
47	Best Water Vapor Information Layer of Himawari-8-Based Water Vapor Bands over East Asia. Sensors, 2020, 20, 2394.	3.8	5
48	Adding method of delta-four-stream spherical harmonic expansion approximation for infrared radiative transfer parameterization. Infrared Physics and Technology, 2016, 78, 254-262.	2.9	4
49	A new parameterization of canopy radiative transfer for land surface radiation models. Advances in Atmospheric Sciences, 2017, 34, 613-622.	4.3	4
50	A simple parameterization for the height of maximum ozone heating rate. Infrared Physics and Technology, 2017, 87, 104-112.	2.9	4
51	Comparison of Chebyshev and Legendre Polynomial Expansion of Phase Function of Cloud and Aerosol Particles. Advances in Meteorology, 2017, 2017, 1-10.	1.6	4
52	Explicit solutions to the mixing rules with three-component inclusions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 207, 78-82.	2.3	4
53	On the relationship between direct and anisotropic diffuse radiation. Infrared Physics and Technology, 2014, 65, 5-8.	2.9	3
54	High Spatiotemporal Resolution PM2.5 Concentration Estimation with Machine Learning Algorithm: A Case Study for Wildfire in California. Remote Sensing, 2022, 14, 1635.	4.0	3

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55	Influence of mass of cone spring on oscillatory period. Journal of Sound and Vibration, 2006, 295, 331-341.	3.9	2
56	Double-delta-function adjustment in thermal radiative transfer. Infrared Physics and Technology, 2017, 86, 139-146.	2.9	2
57	On the relationship between direct and diffuse radiation (II) Î´-2N-stream discrete ordinates method. Infrared Physics and Technology, 2013, 60, 94-97.	2.9	1
58	Development of a Rapid Retrieval Method for Cloud Optical Thickness and Cloud-Top Height Using Himawari-8 Infrared Measurements. Scientific Online Letters on the Atmosphere, 2019, 15, 57-61.	1.4	1
59	Impact of Î´-Four-Stream Radiative Transfer Scheme on global climate model simulation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 243, 106800.	2.3	1
60	The Î´-six-stream spherical harmonic expansion adding method for solar radiative transfer. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 243, 106818.	2.3	1
61	Vertical Profile of Ozone Derived from Combined MLS and TES Satellite Observations. Remote Sensing, 2022, 14, 1588.	4.0	1
62	A broadband infrared radiative transfer scheme including the effect related to vertically inhomogeneous microphysical properties inside water clouds. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 285, 108160.	2.3	1
63	Contributions of internal climate variability in driving global and ocean temperature variations using multi-layer perceptron neural network. Advances in Climate Change Research, 2022, 13, 459-472.	5.1	1
64	Perturbation Method for Solar/Infrared Radiative Transfer in a Scattering Medium with Vertical Inhomogeneity in Internal Optical Properties. , 0, , .		0
65	Atmospheric Radiative Transfer Parameterizations. , 0, , .		0