

Feng Xu

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,279
citations

361413

20
h-index

361022

35
g-index

39
all docs

39
docs citations

39
times ranked

1101
citing authors

#	ARTICLE	IF	CITATIONS
1	Polarimetric remote sensing of atmospheric aerosols: Instruments, methodologies, results, and perspectives. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 224, 474-511.	2.3	224
2	The Airborne Multiangle SpectroPolarimetric Imager (AirMSPI): a new tool for aerosol and cloud remote sensing. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 2007-2025.	3.1	128
3	Space-based remote sensing of atmospheric aerosols: The multi-angle spectro-polarimetric frontier. <i>Earth-Science Reviews</i> , 2015, 145, 85-116.	9.1	75
4	Joint retrieval of aerosol and water-leaving radiance from multispectral, multiangular and polarimetric measurements over ocean. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2877-2907.	3.1	69
5	Intercomparison of biomass burning aerosol optical properties from in situ and remote-sensing instruments in ORACLES-2016. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9181-9208.	4.9	69
6	Grand Challenges in Satellite Remote Sensing. <i>Frontiers in Remote Sensing</i> , 2021, 2, .	3.5	65
7	Exploration of a Polarized Surface Bidirectional Reflectance Model Using the Ground-Based Multiangle SpectroPolarimetric Imager. <i>Atmosphere</i> , 2012, 3, 591-619.	2.3	63
8	Coupled retrieval of aerosol properties and land surface reflection using the Airborne Multiangle SpectroPolarimetric Imager. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 7004-7026.	3.3	63
9	A Comprehensive Description of Multi-Term LSM for Applying Multiple a Priori Constraints in Problems of Atmospheric Remote Sensing: GRASP Algorithm, Concept, and Applications. <i>Frontiers in Remote Sensing</i> , 2021, 2, .	3.5	54
10	Retrieving Aerosol Characteristics From the PACE Mission, Part 2: Multi-Angle and Polarimetry. <i>Frontiers in Environmental Science</i> , 2019, 7, .	3.3	37
11	Markov chain formalism for polarized light transfer in plane-parallel atmospheres, with numerical comparison to the Monte Carlo method. <i>Optics Express</i> , 2011, 19, 946.	3.4	34
12	Retrieving Aerosol Characteristics From the PACE Mission, Part 1: Ocean Color Instrument. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	31
13	Debye series for light scattering by a nonspherical particle. <i>Physical Review A</i> , 2010, 81, .	2.5	28
14	Coupled Retrieval of Liquid Water Cloud and Above-Cloud Aerosol Properties Using the Airborne Multiangle SpectroPolarimetric Imager (AirMSPI). <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 3175-3204.	3.3	28
15	Aerosol retrievals from different polarimeters during the ACEPOL campaign using a common retrieval algorithm. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 553-573.	3.1	28
16	Constraining the vertical distribution of coastal dust aerosol using OCO-2 O ₂ A-band measurements. <i>Remote Sensing of Environment</i> , 2020, 236, 111494.	11.0	27
17	A Correlated Multi-Pixel Inversion Approach for Aerosol Remote Sensing. <i>Remote Sensing</i> , 2019, 11, 746.	4.0	26
18	Markov chain formalism for vector radiative transfer in a plane-parallel atmosphere overlying a polarizing surface. <i>Optics Letters</i> , 2011, 36, 2083.	3.3	22

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19	A Generalized Linear Transport Model for Spatially Correlated Stochastic Media. <i>Journal of Computational and Theoretical Transport</i> , 2014, 43, 474-514.	0.8	21
20	Constraining Aerosol Vertical Profile in the Boundary Layer Using Hyperspectral Measurements of Oxygen Absorption. <i>Geophysical Research Letters</i> , 2018, 45, 10,772.	4.0	20
21	Linearization of Markov chain formalism for vector radiative transfer in a plane-parallel atmosphere/surface system. <i>Applied Optics</i> , 2012, 51, 3491.	1.8	18
22	Remote sensing of angular scattering effect of aerosols in a North American megacity. <i>Remote Sensing of Environment</i> , 2020, 242, 111760.	11.0	17
23	Markov chain formalism for generalized radiative transfer in a plane-parallel medium, accounting for polarization. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 184, 14-26.	2.3	16
24	Photopolarimetric Sensitivity to Black Carbon Content of Wildfire Smoke: Results From the 2016 ImPACT-PM Field Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 5376-5396.	3.3	15
25	Testbed results for scalar and vector radiative transfer computations of light in atmosphere-ocean systems. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 242, 106717.	2.3	14
26	3D radiative transfer effects in multi-angle/multispectral radio-polarimetric signals from a mixture of clouds and aerosols viewed by a non-imaging sensor. <i>Proceedings of SPIE</i> , 2013, , .	0.8	12
27	Derivatives of light scattering properties of a nonspherical particle computed with the T-matrix method. <i>Optics Letters</i> , 2011, 36, 4464.	3.3	11
28	A hybrid method for modeling polarized radiative transfer in a spherical-shell planetary atmosphere. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 117, 59-70.	2.3	10
29	The Aerosol Characterization from Polarimeter and Lidar (ACEPOL) airborne field campaign. <i>Earth System Science Data</i> , 2020, 12, 2183-2208.	9.9	10
30	A Combined Lidar-Polarimeter Inversion Approach for Aerosol Remote Sensing Over Ocean. <i>Frontiers in Remote Sensing</i> , 2021, 2, .	3.5	9
31	Generalized radiative transfer theory for scattering by particles in an absorbing gas: Addressing both spatial and spectral integration in multi-angle remote sensing of optically thin aerosol layers. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 205, 148-162.	2.3	8
32	Improving MISR AOD Retrievals With Low-Light-Level Corrections for Veiling Light. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 1251-1268.	6.3	7
33	Impact of Cloud Ice Particle Size Uncertainty in a Climate Model and Implications for Future Satellite Missions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032119.	3.3	7
34	GFIT3: a full physics retrieval algorithm for remote sensing of greenhouse gases in the presence of aerosols. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 6483-6507.	3.1	5
35	Addendum to "Generalized radiative transfer theory for scattering by particles in an absorbing gas: Addressing both spatial and spectral integration in multi-angle remote sensing of optically thin aerosol layers". <i>Quant. Spectrosc. Radiat. Transfer</i> 205 (2018) 148-162]. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> . 2018. 206. 251-253.	2.3	3
36	Accounting for Sub-Pixel Variability of Clouds and/or Unresolved Spectral Variability, as Needed, with Generalized Radiative Transfer Theory. , 2015, , .		0

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37	Water vapor retrieval using the Airborne Multiangle SpectroPolarimetric Imager. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 267, 107610.	2.3	0
38	A correlation-based inversion method for aerosol property (CIMAP) retrieval from AERONET measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 272, 107808.	2.3	0