

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	Grand Challenges in Satellite Remote Sensing. <i>Frontiers in Remote Sensing</i> , 2021, 2, .	3.5	65
2	A Combined Lidar-Polarimeter Inversion Approach for Aerosol Remote Sensing Over Ocean. <i>Frontiers in Remote Sensing</i> , 2021, 2, .	3.5	9
3	Water vapor retrieval using the Airborne Multiangle SpectroPolarimetric Imager. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 267, 107610.	2.3	0
4	A correlation-based inversion method for aerosol property (CIMAP) retrieval from AERONET measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 272, 107808.	2.3	0
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	The Aerosol Characterization from Polarimeter and Lidar (ACEPOL) airborne field campaign. <i>Earth System Science Data</i> , 2020, 12, 2183-2208.	9.9	10
13	Retrieving Aerosol Characteristics From the PACE Mission, Part 2: Multi-Angle and Polarimetry. <i>Frontiers in Environmental Science</i> , 2019, 7, .	3.3	37
14	A Correlated Multi-Pixel Inversion Approach for Aerosol Remote Sensing. <i>Remote Sensing</i> , 2019, 11, 746.	4.0	26
15	Retrieving Aerosol Characteristics From the PACE Mission, Part 1: Ocean Color Instrument. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	31
16	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
17	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
18	Photopolarimetric Sensitivity to Black Carbon Content of Wildfire Smoke: Results From the 2016 ImPACTâ€¢PM Field Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 5376-5396.	3.3	15

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19	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" [J. Quant. Spectrosc. Radiat. Transfer 205 (2018) 148-162]. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 206, 251-253.	2.3	3
20	Improving MISR AOD Retrievals With Low-Light-Level Corrections for Veiling Light. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1251-1268.	6.3	7
21	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. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 205, 148-162.	2.3	8
22	Constraining Aerosol Vertical Profile in the Boundary Layer Using Hyperspectral Measurements of Oxygen Absorption. Geophysical Research Letters, 2018, 45, 10,772.	4.0	20
23	Coupled Retrieval of Liquid Water Cloud and Above-Cloud Aerosol Properties Using the Airborne Multiangle SpectroPolarimetric Imager (AirMSPI). Journal of Geophysical Research D: Atmospheres, 2018, 123, 3175-3204.	3.3	28
24	Coupled retrieval of aerosol properties and land surface reflection using the Airborne Multiangle SpectroPolarimetric Imager. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7004-7026.	3.3	63
25	Joint retrieval of aerosol and water-leaving radiance from multispectral, multiangular and polarimetric measurements over ocean. Atmospheric Measurement Techniques, 2016, 9, 2877-2907.	3.1	69
26	Markov chain formalism for generalized radiative transfer in a plane-parallel medium, accounting for polarization. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 184, 14-26.	2.3	16
27	Space-based remote sensing of atmospheric aerosols: The multi-angle spectro-polarimetric frontier. Earth-Science Reviews, 2015, 145, 85-116.	9.1	75
28	Accounting for Sub-Pixel Variability of Clouds and/or Unresolved Spectral Variability, as Needed, with Generalized Radiative Transfer Theory. , 2015, , .		0
29	A Generalized Linear Transport Model for Spatially Correlated Stochastic Media. Journal of Computational and Theoretical Transport, 2014, 43, 474-514.	0.8	21
30	A hybrid method for modeling polarized radiative transfer in a spherical-shell planetary atmosphere. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 117, 59-70.	2.3	10
31	3D radiative transfer effects in multi-angle/multispectral radio-polarimetric signals from a mixture of clouds and aerosols viewed by a non-imaging sensor. Proceedings of SPIE, 2013, , .	0.8	12
32	The Airborne Multiangle SpectroPolarimetric Imager (AirMSPI): a new tool for aerosol and cloud remote sensing. Atmospheric Measurement Techniques, 2013, 6, 2007-2025.	3.1	128
33	Linearization of Markov chain formalism for vector radiative transfer in a plane-parallel atmosphere/surface system. Applied Optics, 2012, 51, 3491.	1.8	18
34	Exploration of a Polarized Surface Bidirectional Reflectance Model Using the Ground-Based Multiangle SpectroPolarimetric Imager. Atmosphere, 2012, 3, 591-619.	2.3	63
35	Markov chain formalism for polarized light transfer in plane-parallel atmospheres, with numerical comparison to the Monte Carlo method. Optics Express, 2011, 19, 946.	3.4	34
36	Markov chain formalism for vector radiative transfer in a plane-parallel atmosphere overlying a polarizing surface. Optics Letters, 2011, 36, 2083.	3.3	22

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37	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
38	Debye series for light scattering by a nonspherical particle. <i>Physical Review A</i> , 2010, 81, .	2.5	28