

Xiaoguang Xu

List of Publications by Year in descending order

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48
papers

1,454
citations

279487

23
h-index

329751

37
g-index

62
all docs

62
docs citations

62
times ranked

1505
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Retrieval of NO ₂ Vertical Columns from UV-Vis (390-495nm) Spectral Radiances Using a Neural Network. <i>Journal of Remote Sensing</i> , 2022, 2022, .	3.2	2
2	Efficient multi-angle polarimetric inversion of aerosols and ocean color powered by a deep neural network forward model. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 4083-4110.	1.2	27
3	Can multi-angular polarimetric measurements in the oxygen-A and B bands improve the retrieval of aerosol vertical distribution?. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 270, 107679.	1.1	7
4	First retrieval of absorbing aerosol height over dark target using TROPOMI oxygen B band: Algorithm development and application for surface particulate matter estimates. <i>Remote Sensing of Environment</i> , 2021, 265, 112674.	4.6	13
5	Constraining Aerosol Phase Function Using Dual-View Geostationary Satellites. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035209.	1.2	3
6	Hourly Mapping of the Layer Height of Thick Smoke Plumes Over the Western U.S. in 2020 Severe Fire Season. <i>Frontiers in Remote Sensing</i> , 2021, 2, .	1.3	6
7	Nighttime smoke aerosol optical depth over U.S. rural areas: First retrieval from VIIRS moonlight observations. <i>Remote Sensing of Environment</i> , 2021, 267, 112717.	4.6	15
8	Adaptive Data Screening for Multi-Angle Polarimetric Aerosol and Ocean Color Remote Sensing Accelerated by Deep Learning. <i>Frontiers in Remote Sensing</i> , 2021, 2, .	1.3	13
9	Detecting nighttime fire combustion phase by hybrid application of visible and infrared radiation from Suomi NPP VIIRS. <i>Remote Sensing of Environment</i> , 2020, 237, 111466.	4.6	32
10	An algorithm for hyperspectral remote sensing of aerosols: 3. Application to the GEO-TASO data in KORUS-AQ field campaign. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 253, 107161.	1.1	16
11	Characterization of Aerosol Type Over East Asia by 4.4 km MISR Product: First Insight and General Performance. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031909.	1.2	20
12	Development of a nighttime shortwave radiative transfer model for remote sensing of nocturnal aerosols and fires from VIIRS. <i>Remote Sensing of Environment</i> , 2020, 241, 111727.	4.6	18
13	Inverse modeling of SO ₂ and NO _x emissions over China using multisensor satellite data – Part 1: Formulation and sensitivity analysis. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 6631-6650.	1.9	16
14	Retrieval of aerosol properties from Airborne Hyper-Angular Rainbow Polarimeter (AirHARP) observations during ACEPOL 2017. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 5207-5236.	1.2	20
15	The Aerosol Characterization from Polarimeter and Lidar (ACEPOL) airborne field campaign. <i>Earth System Science Data</i> , 2020, 12, 2183-2208.	3.7	10
16	Detecting Layer Height of Smoke and Dust Aerosols Over Vegetated Land and Water Surfaces via Oxygen Absorption Bands. , 2020, , .		0
17	Detecting layer height of smoke aerosols over vegetated land and water surfaces via oxygen absorption bands: hourly results from EPIC/DSCOVR in deep space. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 3269-3288.	1.2	40
18	UNL-VRTM, A Testbed for Aerosol Remote Sensing: Model Developments and Applications. <i>Springer Series in Light Scattering</i> , 2019, , 1-69.	1.8	8

#	ARTICLE	IF	CITATIONS
37	An algorithm for hyperspectral remote sensing of aerosols: 1. Development of theoretical framework. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 178, 400-415.	1.1	45
38	Potential application of VIIRS Day/Night Band for monitoring nighttime surface PM 2.5 air quality from space. Atmospheric Environment, 2016, 124, 55-63.	1.9	89
39	An algorithm for hyperspectral remote sensing of aerosols. , 2016, , .		0
40	Retrieval of aerosol microphysical properties from AERONET photopolarimetric measurements: 1. Information content analysis. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7059-7078.	1.2	65
41	Retrieval of aerosol microphysical properties from AERONET photopolarimetric measurements: 2. A new research algorithm and case demonstration. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7079-7098.	1.2	61
42	An algorithm for simultaneous inversion of aerosol properties and surface reflectance from airborne GeoTASO hyperspectral data. , 2015, , .		1
43	A numerical testbed for remote sensing of aerosols, and its demonstration for evaluating retrieval synergy from a geostationary satellite constellation of GEO-CAPE and GOES-R. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 146, 510-528.	1.1	94
44	Assessing remote polarimetric measurement sensitivities to aerosol emissions using the geos-chem adjoint model. Atmospheric Measurement Techniques, 2013, 6, 3441-3457.	1.2	9
45	Constraints on aerosol sources using GEOSâ€Chem adjoint and MODIS radiances, and evaluation with multisensor (OMI, MISR) data. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6396-6413.	1.2	89
46	Wavelet analysis of quasi-3-year temperature oscillations in China in last 50 years, and predicted changes in the next 20 years. Sciences in Cold and Arid Regions, 2013, 5, 755.	0.1	0
47	Topâ€down estimate of dust emissions through integration of MODIS and MISR aerosol retrievals with the GEOSâ€Chem adjoint model. Geophysical Research Letters, 2012, 39, .	1.5	84
48	Improved algorithm for MODIS satellite retrievals of aerosol optical thickness over land in dusty atmosphere: Implications for air quality monitoring in China. Remote Sensing of Environment, 2010, 114, 2575-2583.	4.6	86