Jun Wang

List of Publications by Citations

189 papers	29,286 citations	48 h-index	171 g-index
255 ext. papers	31,976 ext. citations	5.4 avg, IF	6.25 L-index

#	Paper	IF	Citations
189	The NCEP/NCAR 40-Year Reanalysis Project. *Bulletin of the American Meteorological Society*, **1996**, 77, 437-471	6.1	22063
188	Intercomparison between satellite-derived aerosol optical thickness and PM2.5 mass: Implications for air quality studies. *Geophysical Research Letters*, **2003**, 30,	4.9	542
187	Satellite remote sensing of particulate matter and air quality assessment over global cities. *Atmospheric Environment*, **2006**, 40, 5880-5892	5.3	435
186	Global Monitoring and Forecasting of Biomass-Burning Smoke: Description of and Lessons From the Fire Locating and Modeling of Burning Emissions (FLAMBE) Program. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2009**, 2, 144-162	4.7	242
185	Observing and understanding the Southeast Asian aerosol system by remote sensing: An initial review and analysis for the Seven Southeast Asian Studies (7SEAS) program. *Atmospheric Research*, **2013**, 122, 403-468	5.4	207
184	Origin and radiative forcing of black carbon transported to the Himalayas and Tibetan Plateau. *Atmospheric Chemistry and Physics*, **2011**, 11, 2837-2852	6.8	180
183	Tropospheric Emissions: Monitoring of Pollution (TEMPO). *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2017**, 186, 17-39	2.1	163
182	Introduction: Observations and Modeling of the Green Ocean Amazon (GoAmazon2014/5). *Atmospheric Chemistry and Physics*, **2016**, 16, 4785-4797	6.8	162
181	Global budget and radiative forcing of black carbon aerosol: Constraints from pole-to-pole (HIPPO) observations across the Pacific. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 195-206	4.4	153
180	Intercomparison of SCIAMACHY and OMI tropospheric NO2 columns: Observing the diurnal evolution of chemistry and emissions from space. *Journal of Geophysical Research*, **2008**, 113,		145
179	An overview of the Amazonian Aerosol Characterization Experiment 2008 (AMAZE-08). *Atmospheric Chemistry and Physics*, **2010**, 10, 11415-11438	6.8	143
178	Synthesis of satellite (MODIS), aircraft (ICARTT), and surface (IMPROVE, EPA-AQS, AERONET) aerosol observations over eastern North America to improve MODIS aerosol retrievals and constrain surface aerosol concentrations and sources. *Journal of Geophysical Research*, **2010**, 115,		126
177	Variation in the urban vegetation, surface temperature, air temperature nexus. *Science of the Total Environment*, **2017**, 579, 495-505	10.2	105
176	The United States' Next Generation of Atmospheric Composition and Coastal Ecosystem Measurements: NASA's Geostationary Coastal and Air Pollution Events (GEO-CAPE) Mission. *Bulletin of the American Meteorological Society*, **2012**, 93, 1547-1566	6.1	102
175	Optimal estimation for global ground-level fine particulate matter concentrations. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 5621-5636	4.4	97
174	The Green Ocean Amazon Experiment (GoAmazon2014/5) Observes Pollution Affecting Gases, Aerosols, Clouds, and Rainfall over the Rain Forest. *Bulletin of the American Meteorological Society*, **2017**, 98, 981-997	6.1	94
173	Constraints on aerosol sources using GEOS-Chem adjoint and MODIS radiances, and evaluation with multisensor (OMI, MISR) data. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 6396-6413	4.4	78

172	Mesoscale modeling of Central American smoke transport to the United States: 2. Smoke radiative impact on regional surface energy budget and boundary layer evolution. *Journal of Geophysical Research*, **2006**, 111,		78
171	Global distribution of solid and aqueous sulfate aerosols: Effect of the hysteresis of particle phase transitions. *Journal of Geophysical Research*, **2008**, 113,		77
170	Satellite characterization of urban aerosols: Importance of including hygroscopicity and mixing state in the retrieval algorithms. *Journal of Geophysical Research*, **2007**, 112,		77
169	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	13.2	76
168	Mesoscale modeling of smoke transport over the Southeast Asian Maritime Continent: Interplay of sea breeze, trade wind, typhoon, and topography. *Atmospheric Research*, **2013**, 122, 486-503	5.4	75
167	Mesoscale modeling of Central American smoke transport to the United States: 1. Top-down assessment of emission strength and diurnal variation impacts. *Journal of Geophysical Research*, **2006**, 111,		74
166	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	2.1	72
165	Top-down estimate of dust emissions through integration of MODIS and MISR aerosol retrievals with the GEOS-Chem adjoint model. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	70
164	Directional Polarimetric Camera (DPC): Monitoring aerosol spectral optical properties over land from satellite observation. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2018**, 218, 21-37	2.1	68
163	Unusually high soil nitrogen oxide emissions influence air quality in a high-temperature agricultural region. *Nature Communications*, **2015**, 6, 8753	17.4	67
162	Improved algorithm for MODIS satellite retrievals of aerosol optical depths over western North America. *Journal of Geophysical Research*, **2008**, 113,		67
161	A sub-pixel-based calculation of fire radiative power from MODIS observations: 1. *Remote Sensing of Environment*, **2013**, 129, 262-279	13.2	64
160	First observations of SO2 from the satellite Suomi NPP OMPS: Widespread air pollution events over China. *Geophysical Research Letters*, **2013**, 40, 4957-4962	4.9	64
159	Sensitivity of sulfate direct climate forcing to the hysteresis of particle phase transitions. *Journal of Geophysical Research*, **2008**, 113,		61
158	Column closure studies of lower tropospheric aerosol and water vapor during ACE-Asia using airborne Sun photometer and airborne in situ and ship-based lidar measurements. *Journal of Geophysical Research*, **2003**, 108, ACE 24-1-ACE 24-22		60
157	Six global biomass burning emission datasets: intercomparison and application in one global aerosol model. *Atmospheric Chemistry and Physics*, **2020**, 20, 969-994	6.8	58
156	Development towards a global operational aerosol consensus: basic climatological characteristics of the International Cooperative for Aerosol Prediction Multi-Model Ensemble (ICAP-MME). *Atmospheric Chemistry and Physics*, **2015**, 15, 335-362	6.8	57
155	Global satellite analysis of the relation between aerosols and short-lived trace gases. *Atmospheric Chemistry and Physics*, **2011**, 11, 1255-1267	6.8	55

154	Potential application of VIIRS Day/Night Band for monitoring nighttime surface PM 2.5 air quality from space. *Atmospheric Environment*, **2016**, 124, 55-63	5.3	54
153	Retrieval of aerosol microphysical properties from AERONET photopolarimetric measurements: 1. Information content analysis. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 7059-7078	4.4	54
152	Influence of relative humidity on aerosol composition: Impacts on light extinction and visibility impairment at two sites in coastal area of China. *Atmospheric Research*, **2015**, 153, 500-511	5.4	53
151	Passive remote sensing of altitude and optical depth of dust plumes using the oxygen A and B bands: first results from EPIC/DSCOVR at Lagrange-1 point. *Geophysical Research Letters*, **2017**, 44, 7544-7554	4.9	53
150	Estimation of diurnal shortwave dust aerosol radiative forcing during PRIDE. *Journal of Geophysical Research*, **2003**, 108,		53
149	Trends in Wind Speed at Wind Turbine Height of 80 m over the Contiguous United States Using the North American Regional Reanalysis (NARR). *Journal of Applied Meteorology and Climatology*, **2012**, 51, 2188-2202	2.7	52
148	Mesoscale modeling of smoke transport over the Southeast Asian Maritime Continent: coupling of smoke direct radiative effect below and above the low-level clouds. *Atmospheric Chemistry and Physics*, **2014**, 14, 159-174	6.8	51
147	Study of aerosol optical properties at Kunming in southwest China and long-range transport of biomass burning aerosols from North Burma. *Atmospheric Research*, **2016**, 169, 237-247	5.4	50
146	GOES 8 retrieval of dust aerosol optical thickness over the Atlantic Ocean during PRIDE. *Journal of Geophysical Research*, **2003**, 108,		50
145	Monthly top-down NOx emissions for China (2005‒2012): A hybrid inversion method and trend analysis. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 4600-4625	4.4	49
144	Multidecadal trends in aerosol radiative forcing over the Arctic: Contribution of changes in anthropogenic aerosol to Arctic warming since 1980. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 3573-3594	4.4	48
143	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	4.4	48
142	Remote sensing of surface visibility from space: A look at the United States East Coast. *Atmospheric Environment*, **2013**, 81, 136-147	5.3	48
141	Geostationary satellite retrievals of aerosol optical thickness during ACE-Asia. *Journal of Geophysical Research*, **2003**, 108,		47
140	Effects of meteorological conditions on sulfur dioxide air pollution in the North China plain during winters of 2006‒2015. *Atmospheric Environment*, **2016**, 147, 296-309	5.3	44
139	Linearized T-matrix and Mie scattering computations. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2012**, 113, 425-439	2.1	43
138	Sensitivity of mesoscale modeling of smoke direct radiative effect to the emission inventory: a case study in northern sub-Saharan African region. *Environmental Research Letters*, **2014**, 9, 075002	6.2	42
137	Comparison of MODIS cloud microphysical properties with in-situ measurements over the Southeast Pacific. *Atmospheric Chemistry and Physics*, **2012**, 12, 11261-11273	6.8	41

118	Long-term statistical assessment of Aqua-MODIS aerosol optical depth over coastal regions: bias characteristics and uncertainty sources. *Tellus, Series B: Chemical and Physical Meteorology*, **2013**, 65, 20805	3.3	32
117	Biomass burning, land-cover change, and the hydrological cycle in Northern sub-Saharan Africa. *Environmental Research Letters*, **2016**, 11, 095005	6.2	32
116	The effect of aerosol vertical profiles on satellite-estimated surface particle sulfate concentrations. *Remote Sensing of Environment*, **2011**, 115, 508-513	13.2	31
115	An algorithm for hyperspectral remote sensing of aerosols: 1. Development of theoretical framework. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2016**, 178, 400-415	2.1	31
114	Aerosol-radiation feedback deteriorates the wintertime haze in the North China Plain. *Atmospheric Chemistry and Physics*, **2019**, 19, 8703-8719	6.8	30
113	Effect of cold wave on winter visibility over eastern China. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 2394-2406	4.4	30
112	GOES 8 aerosol optical thickness assimilation in a mesoscale model: Online integration of aerosol radiative effects. *Journal of Geophysical Research*, **2004**, 109,		30
111	Satellite-based global volcanic SO2 emissions and sulfate direct radiative forcing during 2005-2012. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 3446-3464	4.4	29
110	MODIS AOD sampling rate and its effect on PM2.5 estimation in North China. *Atmospheric Environment*, **2019**, 209, 14-22	5.3	28
109	Opposite seasonality of the aerosol optical depth and the surface particulate matter concentration over the north China Plain. *Atmospheric Environment*, **2016**, 127, 90-99	5.3	28
108	SO Emission Estimates Using OMI SO Retrievals for 2005-2017. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 8336-8359	4.4	28
107	Evaluation of MODIS Deep Blue Aerosol Algorithm in Desert Region of East Asia: Ground Validation and Intercomparison. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 10,357-10,368	4.4	28
106	Modeling of 2008 Kasatochi volcanic sulfate direct radiative forcing: assimilation of OMI SO<sub>2</sub> plume height data and comparison with MODIS and CALIOP observations. *Atmospheric Chemistry and Physics*, **2013**, 13, 1895-1912	6.8	28
105	Sunlight transmission through desert dust and marine aerosols: Diffuse light corrections to Sun photometry and pyrheliometry. *Journal of Geophysical Research*, **2004**, 109,		28
104	An algorithm for hyperspectral remote sensing of aerosols: 2. Information content analysis for aerosol parameters and principal components of surface spectra. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2017**, 192, 14-29	2.1	27
103	Angular dependence of aerosol information content in CAPI/TanSat observation over land: Effect of polarization and synergy with A-train satellites. *Remote Sensing of Environment*, **2017**, 196, 163-177	13.2	27
102	Radiative Forcing and Stratospheric Warming of Pyrocumulonimbus Smoke Aerosols: First Modeling Results With Multisensor (EPIC, CALIPSO, and CATS) Views from Space. *Geophysical Research Letters*, **2019**, 46, 10061-10071	4.9	27
101	Intercomparison between multi-angle imaging spectroradiometer (MISR) and sunphotometer aerosol optical thickness in dust source regions over China: implications for satellite aerosol retrievals and radiative forcing calculations. *Tellus, Series B: Chemical and Physical Meteorology*, **2004**, 56, 451-456	3.3	27

100	Detecting layer height of smoke aerosols over vegetated land and water surfaces via oxygen absorption bands: hourly results from EPIC/DSCOVR in deep space. *Atmospheric Measurement Techniques*, **2019**, 12, 3269-3288	4	26
99	Adverse effects of increasing drought on air quality via natural processes. *Atmospheric Chemistry and Physics*, **2017**, 17, 12827-12843	6.8	26
98	Observational estimates of radiative forcing due to land use change in southwest Australia. *Journal of Geophysical Research*, **2007**, 112,		26
97	Himawari-8-derived diurnal variations in ground-level $PM_{2.5}$ pollution across China using the fast space-time Light Gradient Boosting Machine (LightGBM). *Atmospheric Chemistry and Physics*, **2021**, 21, 7863-7880	6.8	26
96	Mesoscale modeling and satellite observation of transport and mixing of smoke and dust particles over northern sub-Saharan African region. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 12,139-12,157	4.4	25
95	Effect of the strengthened western Pacific subtropical high on summer visibility decrease over eastern China since 1973. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 7142-7156	4.4	25
94	Mapping nighttime PM2.5 from VIIRS DNB using a linear mixed-effect model. *Atmospheric Environment*, **2018**, 178, 214-222	5.3	24
93	A new approach for monthly updates of anthropogenic sulfur dioxide emissions from space: Application to China and implications for air quality forecasts. *Geophysical Research Letters*, **2016**, 43, 9931-9938	4.9	24
92	Intercomparison between multi-angle imaging spectroradiometer (MISR) and sunphotometer aerosol optical thickness in dust source regions over China: implications for satellite aerosol retrievals and radiative forcing calculations. *Tellus, Series B: Chemical and Physical Meteorology*, **2004**, 56, 451-456	3.3	23
91	Impact of Southeast Asian smoke on aerosol properties in Southwest China: First comparison of model simulations with satellite and ground observations. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 3904-3919	4.4	22
90	Advancing measurements of tropospheric NO2 from space: New algorithm and first global results from OMPS. *Geophysical Research Letters*, **2014**, 41, 4777-4786	4.9	22
89	MODIS Retrieval of Aerosol Optical Depth over Turbid Coastal Water. *Remote Sensing*, **2017**, 9, 595	5	22
88	How Do Aerosol Properties Affect the Temporal Variation of MODIS AOD Bias in Eastern China?. *Remote Sensing*, **2017**, 9, 800	5	22
87	Improving Remote Sensing of Aerosol Microphysical Properties by Near-Infrared Polarimetric Measurements Over Vegetated Land: Information Content Analysis. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 2215-2243	4.4	21
86	Applying Advanced Ground-Based Remote Sensing in the Southeast Asian Maritime Continent to Characterize Regional Proficiencies in Smoke Transport Modeling. *Journal of Applied Meteorology and Climatology*, **2016**, 55, 3-22	2.7	21
85	Evaluation of aerosol optical depth and aerosol models from VIIRS retrieval algorithms over North China Plain. *Remote Sensing*, **2017**, 9,	5	21
84	Spatiotemporal variation of aerosol and potential long-range transport impact over the Tibetan Plateau, China. *Atmospheric Chemistry and Physics*, **2019**, 19, 14637-14656	6.8	20
83	A molecular perspective for global modeling of upper atmospheric NH from freezing clouds. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 6147-6152	11.5	20

82	Mitigating Satellite-Based Fire Sampling Limitations in Deriving Biomass Burning Emission Rates: Application to WRF-Chem Model Over the Northern sub-Saharan African Region. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 507-528	4.4	18
81	Hybrid Mass Balance/4D-Var Joint Inversion of NO and SO Emissions in East Asia. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 8203-8224	4.4	18
80	Intercomparison of MODIS and VIIRS Fire Products in Khanty-Mansiysk Russia: Implications for Characterizing Gas Flaring from Space. *Atmosphere*, **2017**, 8, 95	2.7	18
79	The implementation of NEMS GFS Aerosol Component (NGAC) Version 1.0 for global dust forecasting at NOAA/NCEP. *Geoscientific Model Development*, **2016**, 9, 1905-1919	6.3	18
78	Synergy of AERONET and MODIS AOD products in the estimation of PM concentrations in Beijing. *Scientific Reports*, **2018**, 8, 10174	4.9	18
77	. *IEEE Geoscience and Remote Sensing Letters*, **2015**, 12, 1262-1266	4.1	17
76	High-spectral resolution simulation of polarization of skylight: Sensitivity to aerosol vertical profile. *Geophysical Research Letters*, **2008**, 35,	4.9	17
75	Full-coverage mapping and spatiotemporal variations of ground-level ozone (O3) pollution from 2013 to 2020 across China. *Remote Sensing of Environment*, **2021**, 270, 112775	13.2	16
74	Detecting nighttime fire combustion phase by hybrid application of visible and infrared radiation from Suomi NPP VIIRS. *Remote Sensing of Environment*, **2020**, 237, 111466	13.2	15
73	Mesoscale modeling of smoke transport from equatorial Southeast Asian Maritime Continent to the Philippines: First comparison of ensemble analysis with in situ observations. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 5380-5398	4.4	14
72	Shortwave direct radiative forcing of Saharan dust aerosols over the Atlantic Ocean. *International Journal of Remote Sensing*, **2003**, 24, 5147-5160	3.1	14
71	Impacts of Soil NO Emission on O Air Quality in Rural California. *Environmental Science & Technology*, **2021**, 55, 7113-7122	10.3	13
70	Surface erythemal UV irradiance in the continental United States derived from ground-based and OMI observations: quality assessment, trend analysis and sampling issues. *Atmospheric Chemistry and Physics*, **2019**, 19, 2165-2181	6.8	11
69	Simulated seasonal variations in wet acid depositions over East Asia. *Journal of the Air and Waste Management Association*, **2011**, 61, 1246-61	2.4	11
68	Using a deterministic time-lagged ensemble forecast with a probabilistic threshold for improving 6 15 day summer precipitation prediction in China. *Atmospheric Research*, **2015**, 156, 142-159	5.4	10
67	Effect of weakened diurnal evolution of atmospheric boundary layer to air pollution over eastern China associated to aerosol, cloud ABL feedback. *Atmospheric Environment*, **2018**, 185, 168-179	5.3	10
66	Compilation and spatio-temporal analysis of publicly available total solar and UV irradiance data in the contiguous United States. *Environmental Pollution*, **2019**, 253, 130-140	9.3	10
65	Improvement of 6 15 day precipitation forecasts using a time-lagged ensemble method. *Advances in Atmospheric Sciences*, **2014**, 31, 293-304	2.9	10

64	*A Tale of Two Dust Storms*: analysis of a complex dust event in the Middle East. *Atmospheric Measurement Techniques*, **2019**, 12, 5101-5118	4	9
63	Inverse modeling of SO_2 and NO_x emissions over China using multisensor satellite data —Part 2: Downscaling techniques for air quality analysis and forecasts. *Atmospheric Chemistry and Physics*, **2020**, 20, 6651-6670	6.8	9
62	Sense size-dependent dust loading and emission from space using reflected solar and infrared spectral measurements: An observation system simulation experiment. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 8233-8254	4.4	9
61	Daytime variation of aerosol optical depth in North China and its impact on aerosol direct radiative effects. *Atmospheric Environment*, **2018**, 182, 31-40	5.3	9
60	The GeoTASO airborne spectrometer project **2014**,		9
59	A short-term predictor of satellite-observed fire activity in the North American boreal forest: Toward improving the prediction of smoke emissions. *Atmospheric Environment*, **2013**, 71, 304-310	5.3	9
58	Introduction: Observations and Modeling of the Green Ocean Amazon (GoAmazon2014/5)		9
57	Mesoscale Modeling of the Meteorological Impacts of Irrigation during the 2012 Central Plains Drought. *Journal of Applied Meteorology and Climatology*, **2017**, 56, 1259-1283	2.7	8
56	Characterization of Aerosol Type Over East Asia by 4.4 km MISR Product: First Insight and General Performance. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD031909	4.4	8
55	Development of a nighttime shortwave radiative transfer model for remote sensing of nocturnal aerosols and fires from VIIRS. *Remote Sensing of Environment*, **2020**, 241, 111727	13.2	8
54	Passive Remote Sensing of Aerosol Height **2018**, 1-22		8
53	Assessing remote polarimetric measurement sensitivities to aerosol emissions using the geos-chem adjoint model. *Atmospheric Measurement Techniques*, **2013**, 6, 3441-3457	4	8
52	TEMPO Green Paper: Chemistry, physics, and meteorology experiments with the Tropospheric Emissions: monitoring of pollution instrument **2019**,		8
51	Mitigating MODIS AOD non-random sampling error on surface PM2.5 estimates by a combined use of Bayesian Maximum Entropy method and linear mixed-effects model. *Atmospheric Pollution Research*, **2020**, 11, 482-490	4.5	8
50	A Multi-sensor View of the 2012 Central Plains Drought from Space. *Frontiers in Environmental Science*, **2016**, 4,	4.8	8
49	Inverse modeling of SO_2 and NO_x emissions over China using multisensor satellite data —Part 1: Formulation and sensitivity analysis. *Atmospheric Chemistry and Physics*, **2020**, 20, 6631-6650	6.8	7
48	UNL-VRTM, A Testbed for Aerosol Remote Sensing: Model Developments and Applications. *Springer Series in Light Scattering*, **2019**, 1-69	1.3	7
47	Effects of ship wakes on ocean brightness and radiative forcing over ocean. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	7

46	Tropospheric SO2 and NO2 in 2012 2018: Contrasting views of two sensors (OMI and OMPS) from space. *Atmospheric Environment*, **2020**, 223, 117214	5.3	7
45	The influence of simulated surface dust lofting and atmospheric loading on radiative forcing. *Atmospheric Chemistry and Physics*, **2019**, 19, 10279-10301	6.8	6
44	Estimating surface visibility at Hong Kong from ground-based LIDAR, sun photometer and operational MODIS products. *Journal of the Air and Waste Management Association*, **2013**, 63, 1098-110	2.4	6
43	Biomass Burning: Observations, Modeling, and Data Assimilation. *Bulletin of the American Meteorological Society*, **2012**, 93, ES10-ES14	6.1	6
42	Development of the global atmospheric chemistry general circulation model BCC-GEOS-Chem v1.0: model description and evaluation. *Geoscientific Model Development*, **2020**, 13, 3817-3838	6.3	6
41	A pilot study of shortwave spectral fingerprints of smoke aerosols above liquid clouds. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2018**, 221, 38-50	2.1	6
40	Improved modelling of soil NO x emissions in a high temperature agricultural region: role of background emissions on NO2 trend over the US. *Environmental Research Letters*, **2021**, 16, 084061	6.2	6
39	Improving Surface PM Forecasts in the United States Using an Ensemble of Chemical Transport Model Outputs: 1. Bias Correction With Surface Observations in Nonrural Areas. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD032293	4.4	5
38	The Uncharacteristic Occurrence of the June 2013 Biomass-Burning Haze Event in Southeast Asia: Effects of the Madden-Julian Oscillation and Tropical Cyclone Activity. *Atmosphere*, **2020**, 11, 55	2.7	5
37	A Numerical Simulation of Microphysical Structure of Cloud Associated with the 2008 Winter Freezing Rain over Southern China. *Journal of the Meteorological Society of Japan*, **2013**, 91, 101-117	2.8	5
36	Can multi-angular polarimetric measurements in the oxygen-A and B bands improve the retrieval of aerosol vertical distribution?. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2021**, 270, 107679	2.1	5
35	First retrieval of absorbing aerosol height over dark target using TROPOMI oxygen B band: Algorithm development and application for surface particulate matter estimates. *Remote Sensing of Environment*, **2021**, 265, 112674	13.2	5
34	Controlling factors analysis for the Himawari-8 aerosol optical depth accuracy from the standpoint of size distribution, solar zenith angles and scattering angles. *Atmospheric Environment*, **2020**, 233, 117501	5.3	4
33	Corrigendum to "An overview of the Amazonian Aerosol Characterization Experiment 2008 (AMAZE-08)" published in Atmos. Chem. Phys., 10, 11415 11438, 2010. *Atmospheric Chemistry and Physics*, **2010**, 10, 11565-11565	6.8	4
32	Nighttime smoke aerosol optical depth over U.S. rural areas: First retrieval from VIIRS moonlight observations. *Remote Sensing of Environment*, **2021**, 267, 112717	13.2	4
31	An algorithm for hyperspectral remote sensing of aerosols: 3. Application to the GEO-TASO data in KORUS-AQ field campaign. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2020**, 253, 107161	2.1	4
30	Importance of including ammonium sulfate $((NH_4)_2SO_4)$ aerosols for ice cloud parameterization in GCMs. *Annales Geophysicae*, **2010**, 28, 621-631	2	3
29	Mesoscale modeling of smoke transport over the Southeast Asian Maritime Continent: coupling of smoke direct radiative feedbacks below and above the low-level clouds		3

#	Title	IF	Cites
28	Development towards a global operational aerosol consensus: basic climatological characteristics of the International Cooperative for Aerosol Prediction Multi-Model Ensemble (ICAP-MME)		3
27	Characterization of dust activation and their prevailing transport over East Asia based on multi-satellite observations. *Atmospheric Research*, **2022**, 265, 105886	5.4	3
26	The benefit of multiple angle observations for visible band remote sensing using night lights		3
25	Improvement of inorganic aerosol component in PM by constraining aqueous-phase formation of sulfate in cloud with satellite retrievals: WRF-Chem simulations. *Science of the Total Environment*, **2022**, 804, 150229	10.2	3
24	Impact of Atmospheric and Aerosol Optical Depth Observations on Aerosol Initial Conditions in a strongly-coupled data assimilation system **2019**,		2
23	Overview of the performance of satellite fire products in China: Uncertainties and challenges. *Atmospheric Environment*, **2022**, 268, 118838	5.3	2
22	Development of the global atmospheric general circulation-chemistry model BCC-GEOS-Chem v1.0: model description and evaluation		2
21	Hourly Mapping of the Layer Height of Thick Smoke Plumes Over the Western U.S. in 2020 Severe Fire Season. *Frontiers in Remote Sensing*, **2021**, 2,	1	2
20	Environmental Association of Burning Agricultural Biomass in the Indus River Basin. *GeoHealth*, **2020**, 4, e2020GH000281	5	2
19	Evaluation of GPM Dual-Frequency Precipitation Radar (DPR) Rainfall Products Using the Rain Gauge Network over China. *Journal of Hydrometeorology*, **2021**, 22, 547-559	3.7	2
18	Customization of the Advanced Research Weather Research and Forecasting model over the Singapore region: impact of planetary boundary layer schemes, land use, land cover and model horizontal grid resolution. *Meteorological Applications*, **2019**, 26, 221-231	2.1	2
17	The polarization crossfire (PCF) sensor suite focusing on satellite remote sensing of fine particulate matter PM2.5 from space. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2022**, 108217	2.1	2
16	Beijing Climate Center Earth System Model version 1 (BCC-ESM1): Model Description and Evaluation **2019**,		1
15	Fire and Smoke Remote Sensing and Modeling Uncertainties. *Geophysical Monograph Series*, **2016**, 215-230	3.0	1
14	An application-aware data replacement policy for interactive large-scale scientific visualization **2017**,		1
13	Origin and radiative forcing of black carbon transported to the Himalayas and Tibetan Plateau		1
12	Is the efficacy of satellite-based inversion of SO2 emission model dependent?. *Environmental Research Letters*, **2021**, 16, 035018	6.2	1
11	Application Potential of Satellite Thermal Anomaly Products in Updating Industrial Emission Inventory of China. *Geophysical Research Letters*, **2021**, 48, e2021GL092997	4.9	1

10	RAMS-MLEF Atmosphere-Aerosol Coupled Data Assimilation: A Case Study of A Dust Event over the Arabian Peninsula on 4 August 2016 **2018**,		1
9	OMI surface UV irradiance in the continental United States: quality assessment, trend analysis, and sampling issues **2018**,		1
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