

Jun Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Overview of the performance of satellite fire products in China: Uncertainties and challenges. <i>Atmospheric Environment</i> , 2022 , 268, 118838	5.3	2
188	Characterization of dust activation and their prevailing transport over East Asia based on multi-satellite observations. <i>Atmospheric Research</i> , 2022 , 265, 105886	5.4	3
187	Improvement of inorganic aerosol component in PM by constraining aqueous-phase formation of sulfate in cloud with satellite retrievals: WRF-Chem simulations. <i>Science of the Total Environment</i> , 2022 , 804, 150229	10.2	3
186	Resolving and Predicting Neighborhood Vulnerability to Urban Heat and Air Pollution: Insights From a Pilot Project of Community Science.. <i>GeoHealth</i> , 2022 , 6, e2021GH000575	5	0
185	Water-conscious management strategies reduce per-yield irrigation and soil emissions of CO ₂ , N ₂ O, and NO in high-temperature forage cropping systems. <i>Agriculture, Ecosystems and Environment</i> , 2022 , 332, 107944	5.7	1
184	The polarization crossfire (PCF) sensor suite focusing on satellite remote sensing of fine particulate matter PM _{2.5} from space. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022 , 108217	2.1	2
183	Direct Retrieval of NO ₂ Vertical Columns from UV-Vis (390-495 nm) Spectral Radiances Using a Neural Network. <i>Journal of Remote Sensing</i> , 2022 , 2022, 1-17		0
182	Full-coverage mapping and spatiotemporal variations of ground-level ozone (O ₃) pollution from 2013 to 2020 across China. <i>Remote Sensing of Environment</i> , 2021 , 270, 112775	13.2	16
181	Constraining Aerosol Phase Function Using Dual-View Geostationary Satellites. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD035209	4.4	
180	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	2
179	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	13.2	4
178	Is the efficacy of satellite-based inversion of SO ₂ emission model dependent?. <i>Environmental Research Letters</i> , 2021 , 16, 035018	6.2	1
177	Evaluation of GPM Dual-Frequency Precipitation Radar (DPR) Rainfall Products Using the Rain Gauge Network over China. <i>Journal of Hydrometeorology</i> , 2021 , 22, 547-559	3.7	2
176	Application Potential of Satellite Thermal Anomaly Products in Updating Industrial Emission Inventory of China. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092997	4.9	1
175	Himawari-8-derived diurnal variations in ground-level PM _{2.5} pollution across China using the fast space-time Light Gradient Boosting Machine (LightGBM). <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 7863-7880	6.8	26
174	Impacts of Soil NO Emission on O ₃ Air Quality in Rural California. <i>Environmental Science & Technology</i> , 2021 , 55, 7113-7122	10.3	13
173	Improved modelling of soil NO _x emissions in a high temperature agricultural region: role of background emissions on NO ₂ trend over the US. <i>Environmental Research Letters</i> , 2021 , 16, 084061	6.2	6

172	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	2.1	5
171	Characterization of Urban Heat Islands Using City Lights: Insights from MODIS and VIIRS DNB Observations. <i>Remote Sensing</i> , 2021 , 13, 3180	5	1
170	First Retrieval of AOD at Fine Resolution Over Shallow and Turbid Coastal Waters From MODIS. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094344	4.9	1
169	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	13.2	5
168	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. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 6651-6670	6.8	9
167	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	4.4	8
166	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. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD032293	4.4	5
165	Beijing Climate Center Earth System Model version 1 (BCC-ESM1): model description and evaluation of aerosol simulations. <i>Geoscientific Model Development</i> , 2020 , 13, 977-1005	6.3	32
164	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	13.2	8
163	Six global biomass burning emission datasets: intercomparison and application in one global aerosol model. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 969-994	6.8	58
162	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	6.8	7
161	The Uncharacteristic Occurrence of the June 2013 Biomass-Burning Haze Event in Southeast Asia: Effects of the Madden-Julian Oscillation and Tropical Cyclone Activity. <i>Atmosphere</i> , 2020 , 11, 55	2.7	5
160	Controlling factors analysis for the Himawari-8 aerosol optical depth accuracy from the standpoint of size distribution, solar zenith angles and scattering angles. <i>Atmospheric Environment</i> , 2020 , 233, 117507	5.3	4
159	Development of the global atmospheric chemistry general circulation model BCC-GEOS-Chem v1.0: model description and evaluation. <i>Geoscientific Model Development</i> , 2020 , 13, 3817-3838	6.3	6
158	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	13.2	15
157	Tropospheric SO ₂ and NO ₂ in 2012–2018: Contrasting views of two sensors (OMI and OMPS) from space. <i>Atmospheric Environment</i> , 2020 , 223, 117214	5.3	7
156	Mitigating MODIS AOD non-random sampling error on surface PM _{2.5} estimates by a combined use of Bayesian Maximum Entropy method and linear mixed-effects model. <i>Atmospheric Pollution Research</i> , 2020 , 11, 482-490	4.5	8
155	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	2.1	4

154	Environmental Association of Burning Agricultural Biomass in the Indus River Basin. <i>GeoHealth</i> , 2020 , 4, e2020GH000281	5	2
153	Numerical simulation of seasonal mesoscale atmospheric flow-field variables using ARW over the Singapore region: impact of land use land cover. <i>Meteorological Applications</i> , 2020 , 27, e1846	2.1	
152	Beijing Climate Center Earth System Model version 1 (BCC-ESM1): Model Description and Evaluation 2019 ,		1
151	Impact of Atmospheric and Aerosol Optical Depth Observations on Aerosol Initial Conditions in a strongly-coupled data assimilation system 2019 ,		2
150	<i>&A Tale of Two Dust Storms&/i>; analysis of a complex dust event in the Middle East. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 5101-5118	4	9
149	Performance of MODIS high-resolution MAIAC aerosol algorithm in China: Characterization and limitation. <i>Atmospheric Environment</i> , 2019 , 213, 159-169	5.3	39
148	MODIS AOD sampling rate and its effect on PM2.5 estimation in North China. <i>Atmospheric Environment</i> , 2019 , 209, 14-22	5.3	28
147	Surface erythemal UV irradiance in the continental United States derived from ground-based and OMI observations: quality assessment, trend analysis and sampling issues. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 2165-2181	6.8	11
146	Current state of the global operational aerosol multi-model ensemble: An update from the International Cooperative for Aerosol Prediction (ICAP). <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019 , 145, 176-209	6.4	35
145	Radiative Forcing and Stratospheric Warming of Pyrocumulonimbus Smoke Aerosols: First Modeling Results With Multisensor (EPIC, CALIPSO, and CATS) Views from Space. <i>Geophysical Research Letters</i> , 2019 , 46, 10061-10071	4.9	27
144	Is water vapor a key player of the wintertime haze in North China Plain?. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 8721-8739	6.8	38
143	Compilation and spatio-temporal analysis of publicly available total solar and UV irradiance data in the contiguous United States. <i>Environmental Pollution</i> , 2019 , 253, 130-140	9.3	10
142	Hybrid Mass Balance/4D-Var Joint Inversion of NO and SO Emissions in East Asia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 8203-8224	4.4	18
141	SO Emission Estimates Using OMI SO Retrievals for 2005-2017. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 8336-8359	4.4	28
140	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	4	26
139	Aerosol radiation feedback deteriorates the wintertime haze in the North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 8703-8719	6.8	30
138	UNL-VRM, A Testbed for Aerosol Remote Sensing: Model Developments and Applications. <i>Springer Series in Light Scattering</i> , 2019 , 1-69	1.3	7
137	Declining Summertime Local-Scale Precipitation Frequency Over China and the United States, 1981-2012: The Disparate Roles of Aerosols. <i>Geophysical Research Letters</i> , 2019 , 46, 13281-13289	4.9	34

136	The influence of simulated surface dust lofting and atmospheric loading on radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 10279-10301	6.8	6
135	TEMPO Green Paper: Chemistry, physics, and meteorology experiments with the Tropospheric Emissions: monitoring of pollution instrument 2019 ,		8
134	Spatiotemporal variation of aerosol and potential long-range transport impact over the Tibetan Plateau, China. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 14637-14656	6.8	20
133	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. <i>Meteorological Applications</i> , 2019 , 26, 221-231	2.1	2
132	Improving Remote Sensing of Aerosol Microphysical Properties by Near-Infrared Polarimetric Measurements Over Vegetated Land: Information Content Analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 2215-2243	4.4	21
131	Mitigating Satellite-Based Fire Sampling Limitations in Deriving Biomass Burning Emission Rates: Application to WRF-Chem Model Over the Northern sub-Saharan African Region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 507-528	4.4	18
130	Mapping nighttime PM _{2.5} from VIIRS DNB using a linear mixed-effect model. <i>Atmospheric Environment</i> , 2018 , 178, 214-222	5.3	24
129	Daytime variation of aerosol optical depth in North China and its impact on aerosol direct radiative effects. <i>Atmospheric Environment</i> , 2018 , 182, 31-40	5.3	9
128	Passive Remote Sensing of Aerosol Height 2018 , 1-22		8
127	Directional Polarimetric Camera (DPC): Monitoring aerosol spectral optical properties over land from satellite observation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 218, 21-37	2.1	68
126	Effect of weakened diurnal evolution of atmospheric boundary layer to air pollution over eastern China associated to aerosol, cloud TBL feedback. <i>Atmospheric Environment</i> , 2018 , 185, 168-179	5.3	10
125	Diurnal variation of aerosol optical depth and PM _{2.5} in South Korea: a synthesis from AERONET, satellite (GOCI), KORUS-AQ observation, and the WRF-Chem model. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 15125-15144	6.8	39
124	RAMS-MLEF Atmosphere-Aerosol Coupled Data Assimilation: A Case Study of A Dust Event over the Arabian Peninsula on 4 August 2016 2018 ,		1
123	A pilot study of shortwave spectral fingerprints of smoke aerosols above liquid clouds. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 221, 38-50	2.1	6
122	OMI surface UV irradiance in the continental United States: quality assessment, trend analysis, and sampling issues 2018 ,		1
121	NU-WRF Aerosol Transport Simulation over West Africa: Effects of Biomass Burning on Smoke Aerosol Distribution. <i>Journal of Applied Meteorology and Climatology</i> , 2018 , 57, 1551-1573	2.7	
120	Impacts of biogenic and anthropogenic emissions on summertime ozone formation in the Guanzhong Basin, China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 7489-7507	6.8	41
119	A molecular perspective for global modeling of upper atmospheric NH from freezing clouds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6147-6152	11.5	20

118	Synergy of AERONET and MODIS AOD products in the estimation of PM concentrations in Beijing. <i>Scientific Reports</i> , 2018 , 8, 10174	4.9	18
117	An algorithm for hyperspectral remote sensing of aerosols: 2. Information content analysis for aerosol parameters and principal components of surface spectra. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 192, 14-29	2.1	27
116	Monthly top-down NO _x emissions for China (2005–2012): A hybrid inversion method and trend analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 4600-4625	4.4	49
115	Mesoscale modeling of smoke transport from equatorial Southeast Asian Maritime Continent to the Philippines: First comparison of ensemble analysis with in situ observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 5380-5398	4.4	14
114	Mesoscale Modeling of the Meteorological Impacts of Irrigation during the 2012 Central Plains Drought. <i>Journal of Applied Meteorology and Climatology</i> , 2017 , 56, 1259-1283	2.7	8
113	Angular dependence of aerosol information content in CAPI/TanSat observation over land: Effect of polarization and synergy with A-train satellites. <i>Remote Sensing of Environment</i> , 2017 , 196, 163-177	13.2	27
112	Multidecadal trends in aerosol radiative forcing over the Arctic: Contribution of changes in anthropogenic aerosol to Arctic warming since 1980. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 3573-3594	4.4	48
111	Impact of Southeast Asian smoke on aerosol properties in Southwest China: First comparison of model simulations with satellite and ground observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 3904-3919	4.4	22
110	Variation in the urban vegetation, surface temperature, air temperature nexus. <i>Science of the Total Environment</i> , 2017 , 579, 495-505	10.2	105
109	Sense size-dependent dust loading and emission from space using reflected solar and infrared spectral measurements: An observation system simulation experiment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 8233-8254	4.4	9
108	Evaluation of MODIS Deep Blue Aerosol Algorithm in Desert Region of East Asia: Ground Validation and Intercomparison. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 10,357-10,368	4.4	28
107	An application-aware data replacement policy for interactive large-scale scientific visualization 2017 ,		1
106	The Green Ocean Amazon Experiment (GoAmazon2014/5) Observes Pollution Affecting Gases, Aerosols, Clouds, and Rainfall over the Rain Forest. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 981-997	6.1	94
105	Tropospheric Emissions: Monitoring of Pollution (TEMPO). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 186, 17-39	2.1	163
104	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. <i>Geophysical Research Letters</i> , 2017 , 44, 7544-7554	4.9	53
103	Adverse effects of increasing drought on air quality via natural processes. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 12827-12843	6.8	26
102	Evaluation of aerosol optical depth and aerosol models from VIIRS retrieval algorithms over North China Plain. <i>Remote Sensing</i> , 2017 , 9,	5	21
101	MODIS Retrieval of Aerosol Optical Depth over Turbid Coastal Water. <i>Remote Sensing</i> , 2017 , 9, 595	5	22

100	How Do Aerosol Properties Affect the Temporal Variation of MODIS AOD Bias in Eastern China?. <i>Remote Sensing</i> , 2017 , 9, 800	5	22
99	Intercomparison of MODIS and VIIRS Fire Products in Khanty-Mansiysk Russia: Implications for Characterizing Gas Flaring from Space. <i>Atmosphere</i> , 2017 , 8, 95	2.7	18
98	Spatial oscillation of the particle pollution in eastern China during winter: Implications for regional air quality and climate. <i>Atmospheric Environment</i> , 2016 , 144, 100-110	5.3	38
97	Fire and Smoke Remote Sensing and Modeling Uncertainties. <i>Geophysical Monograph Series</i> , 2016 , 215-230	1	
96	Introduction: Observations and Modeling of the Green Ocean Amazon (GoAmazon2014/5). <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 4785-4797	6.8	162
95	Applying Advanced Ground-Based Remote Sensing in the Southeast Asian Maritime Continent to Characterize Regional Proficiencies in Smoke Transport Modeling. <i>Journal of Applied Meteorology and Climatology</i> , 2016 , 55, 3-22	2.7	21
94	Potential application of VIIRS Day/Night Band for monitoring nighttime surface PM 2.5 air quality from space. <i>Atmospheric Environment</i> , 2016 , 124, 55-63	5.3	54
93	Opposite seasonality of the aerosol optical depth and the surface particulate matter concentration over the north China Plain. <i>Atmospheric Environment</i> , 2016 , 127, 90-99	5.3	28
92	Study of aerosol optical properties at Kunming in southwest China and long-range transport of biomass burning aerosols from North Burma. <i>Atmospheric Research</i> , 2016 , 169, 237-247	5.4	50
91	Polarimetric remote sensing in oxygen A and B bands: sensitivity study and information content analysis for vertical profile of aerosols. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 2077-2092	4	33
90	The implementation of NEMS GFS Aerosol Component (NGAC) Version 1.0 for global dust forecasting at NOAA/NCEP. <i>Geoscientific Model Development</i> , 2016 , 9, 1905-1919	6.3	18
89	A Multi-sensor View of the 2012 Central Plains Drought from Space. <i>Frontiers in Environmental Science</i> , 2016 , 4,	4.8	8
88	Satellite-based global volcanic SO ₂ emissions and sulfate direct radiative forcing during 2005-2012. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 3446-3464	4.4	29
87	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016 , 54, 5503-5519	8.1	37
86	Did the widespread haze pollution over China increase during the last decade? A satellite view from space. <i>Environmental Research Letters</i> , 2016 , 11, 054019	6.2	39
85	A new approach for monthly updates of anthropogenic sulfur dioxide emissions from space: Application to China and implications for air quality forecasts. <i>Geophysical Research Letters</i> , 2016 , 43, 9931-9938	4.9	24
84	Biomass burning, land-cover change, and the hydrological cycle in Northern sub-Saharan Africa. <i>Environmental Research Letters</i> , 2016 , 11, 095005	6.2	32
83	An algorithm for hyperspectral remote sensing of aerosols: 1. Development of theoretical framework. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016 , 178, 400-415	2.1	31

82	Effects of meteorological conditions on sulfur dioxide air pollution in the North China plain during winters of 2006-2015. <i>Atmospheric Environment</i> , 2016 , 147, 296-309	5.3	44
81	Using a deterministic time-lagged ensemble forecast with a probabilistic threshold for improving 6-15 day summer precipitation prediction in China. <i>Atmospheric Research</i> , 2015 , 156, 142-159	5.4	10
80	. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015 , 12, 1262-1266	4.1	17
79	Retrieval of aerosol microphysical properties from AERONET photopolarimetric measurements: 2. A new research algorithm and case demonstration. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 7079-7098	4.4	48
78	Influence of relative humidity on aerosol composition: Impacts on light extinction and visibility impairment at two sites in coastal area of China. <i>Atmospheric Research</i> , 2015 , 153, 500-511	5.4	53
77	Effect of cold wave on winter visibility over eastern China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 2394-2406	4.4	30
76	Unusually high soil nitrogen oxide emissions influence air quality in a high-temperature agricultural region. <i>Nature Communications</i> , 2015 , 6, 8753	17.4	67
75	Development towards a global operational aerosol consensus: basic climatological characteristics of the International Cooperative for Aerosol Prediction Multi-Model Ensemble (ICAP-MME). <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 335-362	6.8	57
74	Retrieval of aerosol microphysical properties from AERONET photopolarimetric measurements: 1. Information content analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 7059-7078	4.4	54
73	Improvement of 6-15 day precipitation forecasts using a time-lagged ensemble method. <i>Advances in Atmospheric Sciences</i> , 2014 , 31, 293-304	2.9	10
72	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. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014 , 146, 510-528	2.1	72
71	Quantifying the potential for high-altitude smoke injection in the North American boreal forest using the standard MODIS fire products and subpixel-based methods. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 3401-3419	4.4	38
70	Global budget and radiative forcing of black carbon aerosol: Constraints from pole-to-pole (HIPPO) observations across the Pacific. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 195-206	4.4	153
69	Advancing measurements of tropospheric NO ₂ from space: New algorithm and first global results from OMPS. <i>Geophysical Research Letters</i> , 2014 , 41, 4777-4786	4.9	22
68	Mesoscale modeling of smoke transport over the Southeast Asian Maritime Continent: coupling of smoke direct radiative effect below and above the low-level clouds. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 159-174	6.8	51
67	Sensitivity of mesoscale modeling of smoke direct radiative effect to the emission inventory: a case study in northern sub-Saharan African region. <i>Environmental Research Letters</i> , 2014 , 9, 075002	6.2	42
66	The GeoTASO airborne spectrometer project 2014 ,		9
65	Estimating surface visibility at Hong Kong from ground-based LIDAR, sun photometer and operational MODIS products. <i>Journal of the Air and Waste Management Association</i> , 2013 , 63, 1098-110	2.4	6

64	Observing and understanding the Southeast Asian aerosol system by remote sensing: An initial review and analysis for the Seven Southeast Asian Studies (7SEAS) program. <i>Atmospheric Research</i> , 2013 , 122, 403-468	5.4	207
63	A sub-pixel-based calculation of fire radiative power from MODIS observations: 2. Sensitivity analysis and potential fire weather application. <i>Remote Sensing of Environment</i> , 2013 , 129, 231-249	13.2	34
62	A sub-pixel-based calculation of fire radiative power from MODIS observations: 1. <i>Remote Sensing of Environment</i> , 2013 , 129, 262-279	13.2	64
61	Remote sensing of surface visibility from space: A look at the United States East Coast. <i>Atmospheric Environment</i> , 2013 , 81, 136-147	5.3	48
60	A short-term predictor of satellite-observed fire activity in the North American boreal forest: Toward improving the prediction of smoke emissions. <i>Atmospheric Environment</i> , 2013 , 71, 304-310	5.3	9
59	Mesoscale modeling of smoke transport over the Southeast Asian Maritime Continent: Interplay of sea breeze, trade wind, typhoon, and topography. <i>Atmospheric Research</i> , 2013 , 122, 486-503	5.4	75
58	Long-term statistical assessment of Aqua-MODIS aerosol optical depth over coastal regions: bias characteristics and uncertainty sources. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2013 , 65, 20805	3.3	32
57	Assessing remote polarimetric measurement sensitivities to aerosol emissions using the geos-chem adjoint model. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 3441-3457	4	8
56	Optimal estimation for global ground-level fine particulate matter concentrations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5621-5636	4.4	97
55	Constraints on aerosol sources using GEOS-Chem adjoint and MODIS radiances, and evaluation with multisensor (OMI, MISR) data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 6396-6413	4.4	78
54	First observations of SO ₂ from the satellite Suomi NPP OMPS: Widespread air pollution events over China. <i>Geophysical Research Letters</i> , 2013 , 40, 4957-4962	4.9	64
53	Modeling of 2008 Kasatochi volcanic sulfate direct radiative forcing: assimilation of OMI SO ₂ plume height data and comparison with MODIS and CALIOP observations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 1895-1912	6.8	28
52	Mesoscale modeling and satellite observation of transport and mixing of smoke and dust particles over northern sub-Saharan African region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 12,139-12,157	4.4	25
51	Effect of the strengthened western Pacific subtropical high on summer visibility decrease over eastern China since 1973. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 7142-7156	4.4	25
50	A Numerical Simulation of Microphysical Structure of Cloud Associated with the 2008 Winter Freezing Rain over Southern China. <i>Journal of the Meteorological Society of Japan</i> , 2013 , 91, 101-117	2.8	5
49	Linearized T-matrix and Mie scattering computations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012 , 113, 425-439	2.1	43
48	Trends in Wind Speed at Wind Turbine Height of 80 m over the Contiguous United States Using the North American Regional Reanalysis (NARR). <i>Journal of Applied Meteorology and Climatology</i> , 2012 , 51, 2188-2202	2.7	52
47	Top-down estimate of dust emissions through integration of MODIS and MISR aerosol retrievals with the GEOS-Chem adjoint model. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	70

46	Biomass Burning: Observations, Modeling, and Data Assimilation. <i>Bulletin of the American Meteorological Society</i> , 2012 , 93, ES10-ES14	6.1	6
45	The United States' Next Generation of Atmospheric Composition and Coastal Ecosystem Measurements: NASA's Geostationary Coastal and Air Pollution Events (GEO-CAPE) Mission. <i>Bulletin of the American Meteorological Society</i> , 2012 , 93, 1547-1566	6.1	102
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