Jeffrey Reid

List of Publications by Citations

207 papers	13,983 citations	55 h-index	115 g-index
224 ext. papers	15,712 ext. citations	5.5 avg, IF	6.15 L-index

#	Paper	IF	Citations
207	Wavelength dependence of the optical depth of biomass burning, urban, and desert dust aerosols. *Journal of Geophysical Research*, **1999**, 104, 31333-31349		1437
206	Emission factors for open and domestic biomass burning for use in atmospheric models. *Atmospheric Chemistry and Physics*, **2011**, 11, 4039-4072	6.8	1136
205	A review of biomass burning emissions part II: intensive physical properties of biomass burning particles. *Atmospheric Chemistry and Physics*, **2005**, 5, 799-825	6.8	935
204	Physical, chemical, and optical properties of regional hazes dominated by smoke in Brazil. *Journal of Geophysical Research*, **1998**, 103, 32059-32080		380
203	A review of biomass burning emissions part III: intensive optical properties of biomass burning particles. *Atmospheric Chemistry and Physics*, **2005**, 5, 827-849	6.8	378
202	A decadal regional and global trend analysis of the aerosol optical depth using a data-assimilation grade over-water MODIS and Level 2 MISR aerosol products. *Atmospheric Chemistry and Physics*, **2010**, 10, 10949-10963	6.8	283
201	Climatological aspects of the optical properties of fine/coarse mode aerosol mixtures. *Journal of Geophysical Research*, **2010**, 115,		276
200	Emission factors of hydrocarbons, halocarbons, trace gases and particles from biomass burning in Brazil. *Journal of Geophysical Research*, **1998**, 103, 32107-32118		273
199	Physical and optical properties of young smoke from individual biomass fires in Brazil. *Journal of Geophysical Research*, **1998**, 103, 32013-32030		245
198	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
197	Effects of black carbon content, particle size, and mixing on light absorption by aerosols from biomass burning in Brazil. *Journal of Geophysical Research*, **1998**, 103, 32041-32050		232
196	Comparison of size and morphological measurements of coarse mode dust particles from Africa. *Journal of Geophysical Research*, **2003**, 108,		230
195	MODIS aerosol product analysis for data assimilation: Assessment of over-ocean level 2 aerosol optical thickness retrievals. *Journal of Geophysical Research*, **2006**, 111,		227
194	Multiangle implementation of atmospheric correction (MAIAC): 2. Aerosol algorithm. *Journal of Geophysical Research*, **2011**, 116,		218
193	Mineral dust aerosol size distribution change during atmospheric transport. *Journal of Geophysical Research*, **2003**, 108,		213
192	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
191	Use of the Ångstrom exponent to estimate the variability of optical and physical properties of aging smoke particles in Brazil. *Journal of Geophysical Research*, **1999**, 104, 27473-27489		206

190	Long-range transport of Siberian biomass burning emissions and impact on surface ozone in western North America. *Geophysical Research Letters*, **2004**, 31,	4.9	205
189	An over-land aerosol optical depth data set for data assimilation by filtering, correction, and aggregation of MODIS Collection 5 optical depth retrievals. *Atmospheric Measurement Techniques*, **2011**, 4, 379-408	4	195
188	Direct Radiative Forcing by Smoke from Biomass Burning. *Science*, **1997**, 275, 1776-8	33.3	189
187	Characterization of African dust transported to Puerto Rico by individual particle and size segregated bulk analysis. *Journal of Geophysical Research*, **2003**, 108,		180
186	Characterization of the optical properties of biomass burning aerosols in Zambia during the 1997 ZIBBEE field campaign. *Journal of Geophysical Research*, **2001**, 106, 3425-3448		180
185	A system for operational aerosol optical depth data assimilation over global oceans. *Journal of Geophysical Research*, **2008**, 113,		177
184	High aerosol optical depth biomass burning events: A comparison of optical properties for different source regions. *Geophysical Research Letters*, **2003**, 30,	4.9	146
183	Regional and hemispheric impacts of anthropogenic and biomass burning emissions on summertime CO and O3 in the North Atlantic lower free troposphere. *Journal of Geophysical Research*, **2004**, 109,		142
182	An analysis of the collection 5 MODIS over-ocean aerosol optical depth product for its implication in aerosol assimilation. *Atmospheric Chemistry and Physics*, **2011**, 11, 557-565	6.8	130
181	Planning, implementation, and scientific goals of the Studies of Emissions and Atmospheric Composition, Clouds and Climate Coupling by Regional Surveys (SEAC4RS) field mission. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 4967-5009	4.4	129
180	An overview of regional experiments on biomass burning aerosols and related pollutants in Southeast Asia: From BASE-ASIA and the Dongsha Experiment to 7-SEAS. *Atmospheric Environment*, **2013**, 78, 1-19	5.3	128
179	Maritime aerosol network as a component of AERONET – first results and comparison with global aerosol models and satellite retrievals. *Atmospheric Measurement Techniques*, **2011**, 4, 583-597	4	121
178	Analysis of measurements of Saharan dust by airborne and ground-based remote sensing methods during the Puerto Rico Dust Experiment (PRIDE). *Journal of Geophysical Research*, **2003**, 108,		120
177	SALTATING PARTICLES, PLAYA CRUSTS AND DUST AEROSOLS AT OWENS (DRY) LAKE, CALIFORNIA. *Earth Surface Processes and Landforms*, **1996**, 21, 621-639	3.7	114
176	Spatial and temporal variability of column-integrated aerosol optical properties in the southern Arabian Gulf and United Arab Emirates in summer. *Journal of Geophysical Research*, **2008**, 113,		108
175	Tropical cirrus cloud contamination in sun photometer data. *Atmospheric Environment*, **2011**, 45, 6724-6733	3.3	106
174	Optical properties of boreal region biomass burning aerosols in central Alaska and seasonal variation of aerosol optical depth at an Arctic coastal site. *Journal of Geophysical Research*, **2009**, 114,		105
173	Multi-scale meteorological conceptual analysis of observed active fire hotspot activity and smoke optical depth in the Maritime Continent. *Atmospheric Chemistry and Physics*, **2012**, 12, 2117-2147	6.8	100

172	Haboob dust storms of the southern Arabian Peninsula. *Journal of Geophysical Research*, **2008**, 113,		100
171	An 11-year global gridded aerosol optical thickness reanalysis (v1.0) for atmospheric and climate sciences. *Geoscientific Model Development*, **2016**, 9, 1489-1522	6.3	99
170	Comparisons of techniques for measuring shortwave absorption and black carbon content of aerosols from biomass burning in Brazil. *Journal of Geophysical Research*, **1998**, 103, 32031-32040		94
169	A critical examination of spatial biases between MODIS and MISR aerosol products □application for potential AERONET deployment. *Atmospheric Measurement Techniques*, **2011**, 4, 2823-2836	4	80
168	Dynamics of southwest Asian dust particle size characteristics with implications for global dust research. *Journal of Geophysical Research*, **2008**, 113,		80
167	A seasonal trend of single scattering albedo in southern African biomass-burning particles: Implications for satellite products and estimates of emissions for the world's largest biomass-burning source. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 6414-6432	4.4	79
166	Chemical speciation of trace metals emitted from Indonesian peat fires for health risk assessment. *Atmospheric Research*, **2013**, 122, 571-578	5.4	76
165	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
164	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
163	Critical evaluation of the MODIS Deep Blue aerosol optical depth product for data assimilation over North Africa. *Atmospheric Measurement Techniques*, **2013**, 6, 949-969	4	71
162	Fog- and cloud-induced aerosol modification observed by the Aerosol Robotic Network (AERONET). *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		70
161	Observations of Saharan dust microphysical and optical properties from the Eastern Atlantic during NAMMA airborne field campaign. *Atmospheric Chemistry and Physics*, **2011**, 11, 723-740	6.8	67
160	Real-time monitoring of South American smoke particle emissions and transport using a coupled remote sensing/box-model approach. *Geophysical Research Letters*, **2004**, 31, n/a-n/a	4.9	67
159	Characterizing the vertical profile of aerosol particle extinction and linear depolarization over Southeast Asia and the Maritime Continent: The 2007□2009 view from CALIOP. *Atmospheric Research*, **2013**, 122, 520-543	5.4	64
158	Evaluating the impact of assimilating CALIOP-derived aerosol extinction profiles on a global mass transport model. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	61
157	Saharan dust transport to the Caribbean during PRIDE: 2. Transport, vertical profiles, and deposition in simulations of in situ and remote sensing observations. *Journal of Geophysical Research*, **2003**, 108,		61
156	Reconciliation of coarse mode sea-salt aerosol particle size measurements and parameterizations at a subtropical ocean receptor site. *Journal of Geophysical Research*, **2006**, 111,		59
155	Relationships between cloud droplet effective radius, liquid water content, and droplet concentration for warm clouds in Brazil embedded in biomass smoke. *Journal of Geophysical Research*, **1999**, 104, 6145-6153		59

154	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
153	Evolution of the vertical profile and flux of large sea-salt particles in a coastal zone. *Journal of Geophysical Research*, **2001**, 106, 12039-12053		55
152	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
151	An analysis of clear sky and contextual biases using an operational over ocean MODIS aerosol product. *Geophysical Research Letters*, **2009**, 36, n/a-n/a	4.9	53
150	Has China been exporting less particulate air pollution over the past decade?. *Geophysical Research Letters*, **2017**, 44, 2941-2948	4.9	51
149	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
148	Patterns of fire activity over Indonesia and Malaysia from polar and geostationary satellite observations. *Atmospheric Research*, **2013**, 122, 504-519	5.4	51
147	Impact of data quality and surface-to-column representativeness on the PM_{2.5} / satellite AOD relationship for the contiguous United States. *Atmospheric Chemistry and Physics*, **2014**, 14, 6049-6062	6.8	50
146	GOES 8 retrieval of dust aerosol optical thickness over the Atlantic Ocean during PRIDE. *Journal of Geophysical Research*, **2003**, 108,		50
145	From BASE-ASIA toward 7-SEAS: A satellite-surface perspective of boreal spring biomass-burning aerosols and clouds in Southeast Asia. *Atmospheric Environment*, **2013**, 78, 20-34	5.3	49
144	Dust vertical distribution in the Caribbean during the Puerto Rico Dust Experiment. *Geophysical Research Letters*, **2002**, 29, 55-1	4.9	49
143	An overview of mesoscale aerosol processes, comparisons, and validation studies from DRAGON networks. *Atmospheric Chemistry and Physics*, **2018**, 18, 655-671	6.8	48
142	Evaluating nighttime CALIOP 0.532 μm aerosol optical depth and extinction coefficient retrievals. *Atmospheric Measurement Techniques*, **2012**, 5, 2143-2160	4	48
141	Physical and optical characteristics of the October 2010 haze event over Singapore: A photometric and lidar analysis. *Atmospheric Research*, **2013**, 122, 555-570	5.4	47
140	Investigating enhanced Aqua MODIS aerosol optical depth retrievals over the mid-to-high latitude Southern Oceans through intercomparison with co-located CALIOP, MAN, and AERONET data sets. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 4700-4714	4.4	47
139	A climatological study of the sea and land breezes in the Arabian Gulf region. *Journal of Geophysical Research*, **2008**, 113,		47
138	Observations of rapid aerosol optical depth enhancements in the vicinity of polluted cumulus clouds. *Atmospheric Chemistry and Physics*, **2014**, 14, 11633-11656	6.8	46
137	Smoke aerosol transport patterns over the Maritime Continent. *Atmospheric Research*, **2013**, 122, 469-485	5.4	46

136	Critical evaluation of cloud contamination in the MISR aerosol products using MODIS cloud mask products. *Atmospheric Measurement Techniques*, **2014**, 7, 1791-1801	4	46
135	An Assessment of the Surface Longwave Direct Radiative Effect of Airborne Saharan Dust during the NAMMA Field Campaign. *Journals of the Atmospheric Sciences*, **2010**, 67, 1048-1065	2.1	46
134	Preliminary investigations toward nighttime aerosol optical depth retrievals from the VIIRS Day/Night Band. *Atmospheric Measurement Techniques*, **2013**, 6, 1245-1255	4	43
133	Vertical distributions of dust and sea-salt aerosols over Puerto Rico during PRIDE measured from a light aircraft. *Journal of Geophysical Research*, **2003**, 108,		43
132	Evaluating the impact of multisensor data assimilation on a global aerosol particle transport model. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 4674-4689	4.4	41
131	A conceptual model for the link between Central American biomass burning aerosols and severe weather over the south central United States. *Environmental Research Letters*, **2009**, 4, 015003	6.2	40
130	Baseline uncertainties in biomass burning emission models resulting from spatial error in satellite active fire location data. *Geophysical Research Letters*, **2009**, 36,	4.9	40
129	The RED Experiment: An Assessment of Boundary Layer Effects in a Trade Winds Regime on Microwave and Infrared Propagation over the Sea. *Bulletin of the American Meteorological Society*, **2004**, 85, 1355-1366	6.1	40
128	The effects of non-sphericity on geostationary satellite retrievals of dust aerosols. *Geophysical Research Letters*, **2003**, 30,	4.9	39
127	Local meteorological, transport, and source aerosol characteristics of late autumn Owens Lake (dry) dust storms. *Atmospheric Environment*, **1994**, 28, 1699-1706	5.3	39
126	Development of the Ensemble Navy Aerosol Analysis Prediction System (ENAAPS) and its application of the Data Assimilation Research Testbed (DART) in support of aerosol forecasting. *Atmospheric Chemistry and Physics*, **2016**, 16, 3927-3951	6.8	38
125	Current state of the global operational aerosol multi-model ensemble: An update from the International Cooperative for Aerosol Prediction (ICAP). *Quarterly Journal of the Royal Meteorological Society*, **2019**, 145, 176-209	6.4	35
124	Analysis of source regions for smoke events in Singapore for the 2009 El Nino burning season. *Atmospheric Environment*, **2013**, 78, 219-230	5.3	35
123	Status and future of numerical atmospheric aerosol prediction with a focus on data requirements. *Atmospheric Chemistry and Physics*, **2018**, 18, 10615-10643	6.8	34
122	Observations of the Interaction and Transport of Fine Mode Aerosols with Cloud and/or Fog in Northeast Asia from Aerosol Robotic Network (AERONET) and Satellite Remote Sensing. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 5560-5587	4.4	33
121	Airborne Sun photometer measurements of aerosol optical depth and columnar water vapor during the Puerto Rico Dust Experiment and comparison with land, aircraft, and satellite measurements. *Journal of Geophysical Research*, **2003**, 108,		33
120	A sensitivity study on the effects of particle chemistry, asphericity and size on the mass extinction efficiency of mineral dust in the earth's atmosphere: from the near to thermal IR. *Atmospheric Chemistry and Physics*, **2011**, 11, 1527-1547	6.8	31
119	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

118	Impacts of biomass burning smoke on the distributions and concentrations of C2–C5 dicarboxylic acids and dicarboxylates in a tropical urban environment. *Atmospheric Environment*, **2013**, 78, 211-218	5.3	30
117	Impact of modeled versus satellite measured tropical precipitation on regional smoke optical thickness in an aerosol transport model. *Geophysical Research Letters*, **2009**, 36,	4.9	30
116	Assimilation of AERONET and MODIS AOT observations using variational and ensemble data assimilation methods and its impact on aerosol forecasting skill. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 4967-4992	4.4	29
115	CALIOP Aerosol Subset Processing for Global Aerosol Transport Model Data Assimilation. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2010**, 3, 203-214	4.7	29
114	Estimation of Surface and Top-of-Atmosphere Shortwave Irradiance in Biomass-Burning Regions during SCAR-B. *Journal of Applied Meteorology and Climatology*, **2000**, 39, 1742-1753		29
113	Minimum aerosol layer detection sensitivities and their subsequent impacts on aerosol optical thickness retrievals in CALIPSO level 2 data products. *Atmospheric Measurement Techniques*, **2018**, 11, 499-514	4	29
112	Observations of the temporal variability in aerosol properties and their relationships to meteorology in the summer monsoonal South China Sea/East Sea: the scale-dependent role of monsoonal flows, the Madden–Julian Oscillation, tropical cyclones, squall lines and cold pools. *Atmospheric Chemistry and Physics*, **2015**, 15, 1745-1768	6.8	28
111	Strategy for studying nocturnal aerosol optical depth using artificial lights. *International Journal of Remote Sensing*, **2008**, 29, 4599-4613	3.1	28
110	Emission factors for open and domestic biomass burning for use in atmospheric models		28
109	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
108	An overview of UAE2 flight operations: Observations of summertime atmospheric thermodynamic and aerosol profiles of the southern Arabian Gulf. *Journal of Geophysical Research*, **2008**, 113,		27
107	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
106	Size resolved measurements of springtime aerosol particles over the northern South China Sea. *Atmospheric Environment*, **2013**, 78, 134-143	5.3	26
105	Ground-based High Spectral Resolution Lidar observation of aerosol vertical distribution in the summertime Southeast United States. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 2970-3004	4.4	25
104	Impacts of peat-forest smoke on urban PM in the Maritime Continent during 2012-2015: Carbonaceous profiles and indicators. *Environmental Pollution*, **2019**, 248, 496-505	9.3	24
103	Aerosol meteorology of Maritime Continent for the 2012 7SEAS southwest monsoon intensive study – Part 2: Philippine receptor observations of fine-scale aerosol behavior. *Atmospheric Chemistry and Physics*, **2016**, 16, 14057-14078	6.8	24
102	A´study of 15-year aerosol optical thickness and direct shortwave aerosol radiative effect trends using MODIS, MISR, CALIOP and CERES. *Atmospheric Chemistry and Physics*, **2017**, 17, 13849-13868	6.8	24
101	An improved method for retrieving nighttime aerosol optical thickness from the VIIRS Day/Night Band. *Atmospheric Measurement Techniques*, **2015**, 8, 4773-4783	4	24

100	Speciation of Organic Aerosols in the Tropical Mid-Pacific and Their Relationship to Light Scattering. *Journals of the Atmospheric Sciences*, **2004**, 61, 2544-2558	2.1	24
99	Aerosol particle vertical distributions and optical properties over Singapore. *Atmospheric Environment*, **2013**, 79, 599-613	5.3	23
98	Observations and Modeling of the Surface Aerosol Radiative Forcing during UAE2. *Journals of the Atmospheric Sciences*, **2008**, 65, 2877-2891	2.1	23
97	Robust optical features of fine mode size distributions: Application to the QuÞec smoke event of 2002. *Journal of Geophysical Research*, **2005**, 110,		23
96	Temporal variability of aerosol optical thickness vertical distribution observed from CALIOP. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 9117-9139	4.4	23
95	MODIS Retrieval of Aerosol Optical Depth over Turbid Coastal Water. *Remote Sensing*, **2017**, 9, 595	5	22
94	A Multisensor satellite-based assessment of biomass burning aerosol radiative impact over Amazonia. *Journal of Geophysical Research*, **2008**, 113,		22
93	Foreword to special section on the Puerto Rico Dust Experiment (PRIDE). *Journal of Geophysical Research*, **2003**, 108,		22
92	AERONET Remotely Sensed Measurements and Retrievals of Biomass Burning Aerosol Optical Properties During the 2015 Indonesian Burning Season. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 4722-4740	4.4	21
91	RELATIONSHIP BETWEEN AEROSOL OPTICAL DEPTH AND PARTICULATE MATTER OVER SINGAPORE: EFFECTS OF AEROSOL VERTICAL DISTRIBUTIONS. *Aerosol and Air Quality Research*, **2016**, 16, 2818-2830	4.6	21
90	Operational Dust Prediction **2014**, 223-265		21
89	Verification and application of the extended spectral deconvolution algorithm (SDA+) methodology to estimate aerosol fine and coarse mode extinction coefficients in the marine boundary layer. *Atmospheric Measurement Techniques*, **2014**, 7, 3399-3412	4	20
88	Coarse mode optical information retrievable using ultraviolet to short-wave infrared Sun photometry: Application to United Arab Emirates Unified Aerosol Experiment data. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		20
87	Size-resolved aerosol and cloud condensation nuclei (CCN) properties in the remote marine South China Sea Part 1: Observations and source classification. *Atmospheric Chemistry and Physics*, **2017**, 17, 1105-1123	6.8	19
86	Evaluating the impact of aerosol particles above cloud on cloud optical depth retrievals from MODIS. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 5410-5423	4.4	19
85	Investigating the frequency and interannual variability in global above-cloud aerosol characteristics with CALIOP and OMI. *Atmospheric Chemistry and Physics*, **2016**, 16, 47-69	6.8	18
84	Sensitivity of infrared sea surface temperature retrievals to the vertical distribution of airborne dust aerosol. *Remote Sensing of Environment*, **2015**, 159, 1-13	13.2	17
83	Aerosol meteorology of the Maritime Continent for the 2012 7SEAS southwest monsoon intensive study Part 1: regional-scale phenomena. *Atmospheric Chemistry and Physics*, **2016**, 16, 14041-14056	6.8	17

82	An evaluation of the impact of aerosol particles on weather forecasts from a biomass burning aerosol event over the Midwestern United States: observational-based analysis of surface temperature. *Atmospheric Chemistry and Physics*, **2016**, 16, 6475-6494	6.8	17
81	Factors That Modulate Properties of Primary Marine Aerosol Generated From Ambient Seawater on Ships at Sea. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 11,961-11,990	4.4	17
80	Remote sensing of mineral dust aerosol using AERI during the UAE2: A modeling and sensitivity study. *Journal of Geophysical Research*, **2008**, 113,		17
79	Geometric/aerodynamic equivalent diameter ratios of ash aggregate aerosols collected in burning Kuwaiti well fields. *Atmospheric Environment*, **1994**, 28, 2227-2234	5.3	17
78	Ensemble filter based estimation of spatially distributed parameters in a mesoscale dust model: experiments with simulated and real data. *Atmospheric Chemistry and Physics*, **2013**, 13, 3481-3500	6.8	16
77	International Operational Aerosol Observability Workshop. *Bulletin of the American Meteorological Society*, **2011**, 92, ES21-ES24	6.1	16
76	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
75	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
74	A bulk-mass-modeling-based method for retrieving particulate matter pollution using CALIOP observations. *Atmospheric Measurement Techniques*, **2019**, 12, 1739-1754	4	13
73	Surface dimming by the 2013 Rim Fire simulated by a sectional aerosol model. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 7079-7087	4.4	13
72	Role of the Madden-Julian Oscillation in the Transport of Smoke From Sumatra to the Malay Peninsula During Severe Non-El Niño Haze Events. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 6282-6294	4.4	12
71	Investigation of CATS aerosol products and application toward global diurnal variation of aerosols. *Atmospheric Chemistry and Physics*, **2019**, 19, 12687-12707	6.8	11
70	Dew water chemical composition and source characterization in the IGP outflow location (coastal Bhola, Bangladesh). *Air Quality, Atmosphere and Health*, **2017**, 10, 981-990	5.6	10
69	Investigating size-segregated sources of elemental composition of particulate matter in the South China Sea during the 2011 <i>Vasco</i> cruise. *Atmospheric Chemistry and Physics*, **2020**, 20, 1255-1276	6.8	10
68	International Cooperative for Aerosol Prediction Workshop on Aerosol Forecast Verification. *Bulletin of the American Meteorological Society*, **2011**, 92, ES48-ES53	6.1	10
67	<i>A Tale of Two Dust Storms</i>: analysis of a complex dust event in the Middle East. *Atmospheric Measurement Techniques*, **2019**, 12, 5101-5118	4	9
66	On the Relative Sensitivity of a Tropical Deep Convective Storm to Changes in Environment and Cloud Microphysical Parameters. *Journals of the Atmospheric Sciences*, **2019**, 76, 1163-1185	2.1	9
65	Characterization and application of artificial light sources for nighttime aerosol optical depth retrievals using the Visible Infrared Imager Radiometer Suite Day/Night Band. *Atmospheric Measurement Techniques*, **2019**, 12, 3209-3222	4	9

64	Update to Reconciliation of coarse mode sea-salt aerosol particle size measurements and parameterizations at a subtropical ocean receptor site regarding the use of aerodynamic particle sizers in marine environments. *Journal of Geophysical Research*, **2007**, 112,		9
63	A quantitative assessment of distributions and sources of tropospheric halocarbons measured in Singapore. *Science of the Total Environment*, **2018**, 619-620, 528-544	10.2	9
62	Exploring the first aerosol indirect effect over Southeast Asia using a 10-year collocated MODIS, CALIOP, and model dataset. *Atmospheric Chemistry and Physics*, **2018**, 18, 12747-12764	6.8	9
61	Assessing the Challenges of Surface-Level Aerosol Mass Estimates From Remote Sensing During the SEAC4RS and SEARCH Campaigns: Baseline Surface Observations and Remote Sensing in the Southeastern United States. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 7530-7562	4.4	9
60	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
59	Critical evaluation of the MODIS Deep Blue aerosol optical depth product for data assimilation over North Africa **2012**,		8
58	Effects of nuclear explosion starfish prime observed at Hobart, Tasmania, July 9, 1962. *Journal of Geophysical Research*, **1964**, 69, 3607-3612		8
57	Insights into coarse particle optics based on field evidence of particle morphology, chemical composition and internal structure. *Atmospheric Environment*, **2020**, 232, 117338	5.3	8
56	An Eye on the Storm: Integrating a Wealth of Data for Quickly Advancing the Physical Understanding and Forecasting of Tropical Cyclones. *Bulletin of the American Meteorological Society* , **2020**, 101, E1718-E1742	6.1	7
55	An over-land aerosol optical depth data set for data assimilation by filtering, correction, and aggregation of MODIS Collection 5 optical depth retrievals **2010**,		7
54	Modulation of the aerosol absorption and single-scattering albedo due to synoptic scale and sea breeze circulations: United Arab Emirates experiment perspective. *Journal of Geophysical Research*, **2007**, 112,		7
53	Chemical characterization of PM collected from a rural coastal island of the Bay of Bengal (Bhola, Bangladesh). *Environmental Science and Pollution Research*, **2018**, 25, 4558-4569	5.1	7
52	Revisiting the relationship between Atlantic dust and tropical cyclone activity using aerosol optical depth reanalyses: 2003–2018. *Atmospheric Chemistry and Physics*, **2020**, 20, 15357-15378	6.8	6
51	Leveraging spatial textures, through machine learning, to identify aerosols and distinct cloud types from multispectral observations. *Atmospheric Measurement Techniques*, **2020**, 13, 5459-5480	4	6
50	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
49	Investigation of the relative fine and coarse mode aerosol loadings and properties in the Southern Arabian Gulf region. *Atmospheric Research*, **2016**, 169, 171-182	5.4	5
48	Modes of vertical thermodynamic and wind variability over the Maritime Continent. *Atmospheric Chemistry and Physics*, **2017**, 17, 4611-4626	6.8	5
47	Correction to Robust optical features of fine mode size distributions: Application to the Quebec smoke event of 2002 *Journal of Geophysical Research*, **2008**, 113,		5

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