Jhoon Kim

List of Publications by Year
in descending order

198 papers	5,187 citations	76326 40 h-index	118850 62 g-index
253 all docs	253 docs citations	253 times ranked	4548 citing authors

#	Article	IF	Citations
1	Tropospheric emissions: Monitoring of pollution (TEMPO). Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 186, 17-39.	2.3	239
2	Characteristics of aerosol types from AERONET sunphotometer measurements. Atmospheric Environment, 2010, 44, 3110-3117.	4.1	224
3	New Era of Air Quality Monitoring from Space: Geostationary Environment Monitoring Spectrometer (GEMS). Bulletin of the American Meteorological Society, 2020, 101, E1-E22.	3.3	165
4	Solar cycle variability of hot oxygen atoms at Mars. Journal of Geophysical Research, 1998, 103, 29339-29342.	3.3	134
5	The effect of dry and wet deposition of condensable vapors on secondary organic aerosols concentrations over the continental US. Atmospheric Chemistry and Physics, 2015, 15, 1-18.	4.9	132
6	A postâ€Pioneer Venus reassessment of the Martian dayside ionosphere as observed by radio occultation methods. Journal of Geophysical Research, 1990, 95, 14829-14839.	3.3	125
7	Impact of the smoke aerosol from Russian forest fires on the atmospheric environment over Korea during May 2003. Atmospheric Environment, 2005, 39, 85-99.	4.1	110
8	Evaluation of VIIRS, GOCI, and MODIS Collection 6â€AOD retrievals against ground sunphotometer observations over East Asia. Atmospheric Chemistry and Physics, 2016, 16, 1255-1269.	4.9	110
9	Algorithm for retrieval of aerosol optical properties over the ocean from the Geostationary Ocean Color Imager. Remote Sensing of Environment, 2010, 114, 1077-1088.	11.0	103
10	Consistency of the aerosol type classification from satellite remote sensing during the Atmospheric Brown Cloudâ€“East Asia Regional Experiment campaign. Journal of Geophysical Research, 2007, 112, .	3.3	97
11	GOCI Yonsei aerosol retrieval versionÂ2 products: an improved algorithm and error analysis with uncertainty estimation from 5-year validation over East Asia. Atmospheric Measurement Techniques, 2018, 11, 385-408.	3.1	89
12	GOCI Yonsei Aerosol Retrieval (YAER) algorithm and validation during the DRAGON-NE Asia 2012 campaign. Atmospheric Measurement Techniques, 2016, 9, 1377-1398.	3.1	86
13	Assimilation of next generation geostationary aerosol optical depth retrievals to improve air quality simulations. Geophysical Research Letters, 2014, 41, 9188-9196.	4.0	85
14	Estimation of the contributions of long range transported aerosol in East Asia to carbonaceous aerosol and PM concentrations in Seoul, Korea using highly time resolved measurements: a PSCF model approach. Journal of Environmental Monitoring, 2011, 13, 1905.	2.1	84
15	The Koreaâ€“United States Air Quality (KORUS-AQ) field study. Elementa, 2021, 9, 1-27.	3.2	82
16	An overview of mesoscale aerosol processes, comparisons, and validation studies from DRAGON networks. Atmospheric Chemistry and Physics, 2018, 18, 655-671.	4.9	72
17	Validation, comparison, and integration of GOCI, AHI, MODIS, MISR, and VIIRS aerosol optical depth over East Asia during the 2016 KORUS-AQ campaign. Atmospheric Measurement Techniques, 2019, 12, 4619-4641.	3.1	71
18	An investigation into seasonal and regional aerosol characteristics in East Asia using model-predicted and remotely-sensed aerosol properties. Atmospheric Chemistry and Physics, 2008, 8, 6627-6654.	4.9	69

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19	Estimation of ground-level particulate matter concentrations through the synergistic use of satellite observations and process-based models over South Korea. Atmospheric Chemistry and Physics, 2019, 19, 1097-1113.	4.9	69
20	Influence of Arctic Oscillation on dust activity over northeast Asia. Atmospheric Environment, 2011, 45, 326-337.	4.1	67
21	New approach to monitor transboundary particulate pollution over Northeast Asia. Atmospheric Chemistry and Physics, 2014, 14, 659-674.	4.9	66
22	An overview of and issues with sky radiometer technology and SKYNET. Atmospheric Measurement Techniques, 2020, 13, 4195-4218.	3.1	65
23	Estimating ground-level PM_{2.5} in eastern China using aerosol optical depth determined from the GOCI satellite instrument. Atmospheric Chemistry and Physics, 2015, 15, 13133-13144.	4.9	61
24	Primary and secondary sources of ambient formaldehyde in the Yangtze River Delta based on Ozone Mapping and Profiler Suite (OMPS) observations. Atmospheric Chemistry and Physics, 2019, 19, 6717-6736.	4.9	60
25	An investigation on NH3 emissions and particulate NH4+â€“NO3â^' formation in East Asia. Atmospheric Environment, 2006, 40, 2139-2150.	4.1	58
26	AHI/Himawari-8 Yonsei Aerosol Retrieval (YAER): Algorithm, Validation and Merged Products. Remote Sensing, 2018, 10, 699.	4.0	58
27	Analysis of long-range transboundary transport (LRTT) effect on Korean aerosol pollution during the KORUS-AQ campaign. Atmospheric Environment, 2019, 204, 53-67.	4.1	57
28	Retrieving aerosol optical depth using visible and midâ€IR channels from geostationary satellite MTSATâ€1R. International Journal of Remote Sensing, 2008, 29, 6181-6192.	2.9	56
29	Calculated ionization rates, ion densities, and airglow emission rates due to precipitating electrons in the nightside ionosphere of Mars. Journal of Geophysical Research, 1992, 97, 10637-10641.	3.3	55
30	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. Atmospheric Chemistry and Physics, 2018, 18, 15125-15144.	4.9	55
31	Estimation of PM₁₀ concentrations over Seoul using multiple empirical models with AERONET and MODIS data collected during the DRAGON-Asia campaign. Atmospheric Chemistry and Physics, 2015, 15, 319-334.	4.9	52
32	Observations of elemental carbon and absorption during ACE-Asia and implications for aerosol radiative properties and climate forcing. Journal of Geophysical Research, 2003, 108, .	3.3	51
33	Improvement of aerosol optical depth retrieval from MODIS spectral reflectance over the global ocean using new aerosol models archived from AERONET inversion data and tri-axial ellipsoidal dust database. Atmospheric Chemistry and Physics, 2012, 12, 7087-7102.	4.9	51
34	Observations of the Interaction and Transport of Fine Mode Aerosols With Cloud and/or Fog in Northeast Asia From Aerosol Robotic Network and Satellite Remote Sensing. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5560-5587.	3.3	49
35	The Impact of the Direct Effect of Aerosols on Meteorology and Air Quality Using Aerosol Optical Depth Assimilation During the KORUSâ€AQ Campaign. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8303-8319.	3.3	49
36	Assimilating AOD retrievals from GOCI and VIIRS to forecast surface PM2.5 episodes over Eastern China. Atmospheric Environment, 2018, 179, 288-304.	4.1	47

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37	Spectral optical properties of long-range transport Asian dust and pollution aerosols over Northeast Asia in 2007 and 2008. Atmospheric Chemistry and Physics, 2010, 10, 5391-5408.	4.9	45
38	Assessing the effect of long-range pollutant transportation on air quality in Seoul using the conditional potential source contribution function method. Atmospheric Environment, 2017, 150, 33-44.	4.1	44
39	Improvement of aerosol optical depth retrieval over Hong Kong from a geostationary meteorological satellite using critical reflectance with background optical depth correction. Remote Sensing of Environment, 2014, 142, 176-187.	11.0	43
40	The implication of the air quality pattern in South Korea after the COVID-19 outbreak. Scientific Reports, 2020, 10, 22462.	3.3	43
41	A comparison study between model-predicted and OMI-retrieved tropospheric NO2 columns over the Korean peninsula. Atmospheric Environment, 2011, 45, 2962-2971.	4.1	41
42	Effect of the magnetic field on the energetics of Mars ionosphere. Geophysical Research Letters, 1998, 25, 2753-2756.	4.0	40
43	NO₂ and HCHO measurements in Korea from 2012 to 2016 from Pandora spectrometer instruments compared with OMI retrievals and with aircraft measurements during the KORUS-AQ campaign. Atmospheric Measurement Techniques, 2018, 11, 4583-4603.	3.1	39
44	Underestimation of column NO₂ amounts from the OMI satellite compared to diurnally varying ground-based retrievals from multiple PANDORA spectrometer instruments. Atmospheric Measurement Techniques, 2019, 12, 5593-5612.	3.1	39
45	Estimation of spatially continuous daytime particulate matter concentrations under all sky conditions through the synergistic use of satellite-based AOD and numerical models. Science of the Total Environment, 2020, 713, 136516.	8.0	39
46	Hot carbon densities in the exosphere of Mars. Journal of Geophysical Research, 2001, 106, 21565-21568.	3.3	38
47	Combined dust detection algorithm by using MODIS infrared channels over East Asia. Remote Sensing of Environment, 2014, 141, 24-39.	11.0	38
48	Influence of cloud, fog, and high relative humidity during pollution transport events in South Korea: Aerosol properties and PM2.5 variability. Atmospheric Environment, 2020, 232, 117530.	4.1	37
49	Evaluation of ozone profile and tropospheric ozone retrievals from GEMS and OMI spectra. Atmospheric Measurement Techniques, 2013, 6, 239-249.	3.1	36
50	Large density depletions in the nighttime upper ionosphere during the magnetic storm of July 15, 2000. Geophysical Research Letters, 2002, 29, 2-1.	4.0	35
51	An optimal-estimation-based aerosol retrieval algorithm using OMI near-UV observations. Atmospheric Chemistry and Physics, 2016, 16, 177-193.	4.9	35
52	Comparisons of spectral aerosol single scattering albedo in Seoul, South Korea. Atmospheric Measurement Techniques, 2018, 11, 2295-2311.	3.1	33
53	Role of emissions and meteorology in the recent PM2.5 changes in China and South Korea from 2015 to 2018. Environmental Pollution, 2021, 270, 116233.	7.5	33
54	Effects of ozone and aerosol on surface UV radiation variability. Journal of Photochemistry and Photobiology B: Biology, 2013, 119, 46-51.	3.8	31

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55	GIST-PM-Asia v1: development of a numerical system to improve particulate matter forecasts in South Korea using geostationary satellite-retrieved aerosol optical data over Northeast Asia. Geoscientific Model Development, 2016, 9, 17-39.	3.6	31
56	Quiescence of Asian dust events in South Korea and Japan during 2012 spring: Dust outbreaks and transports. Atmospheric Environment, 2015, 114, 92-101.	4.1	30
57	Optimal Estimation-Based Algorithm to Retrieve Aerosol Optical Properties for GEMS Measurements over Asia. Remote Sensing, 2018, 10, 162.	4.0	30
58	Possible particulate nitrite formation and its atmospheric implications inferred from the observations in Seoul, Korea. Atmospheric Environment, 2009, 43, 2168-2173.	4.1	29
59	Aerosol optical properties derived from the DRAGON-NE Asia campaign, and implications for a single-channel algorithm to retrieve aerosol optical depth in spring from Meteorological Imager (MI) on-board the Communication, Ocean, and Meteorological Satellite (COMS). Atmospheric Chemistry and Physics, 2016, 16, 1789-1808.	4.9	29
60	Satellite-based estimation of hourly PM2.5 levels during heavy winter pollution episodes in the Yangtze River Delta, China. Chemosphere, 2020, 239, 124678.	8.2	28
61	A multi-scale hybrid neural network retrieval model for dust storm detection, a study in Asia. Atmospheric Research, 2015, 158-159, 89-106.	4.1	27
62	Trend estimates of AERONET-observed and model-simulated AOTs between 1993 and 2013. Atmospheric Environment, 2016, 125, 33-47.	4.1	27
63	A comprehensive magnetohydrodynamic model of the Venus ionosphere. Journal of Geophysical Research, 1991, 96, 11083-11095.	3.3	25
64	Observation of secondary ozone peaks near the tropopause over the Korean peninsula associated with stratosphereâ€troposphere exchange. Journal of Geophysical Research, 2007, 112, .	3.3	25
65	Estimation of seasonal diurnal variations in primary and secondary organic carbon concentrations in the urban atmosphere: EC tracer and multiple regression approaches. Atmospheric Environment, 2012, 56, 101-108.	4.1	24
66	Recent Changes in Downward Longwave Radiation at King Sejong Station, Antarctica. Journal of Climate, 2008, 21, 5764-5776.	3.2	22
67	Impact of Aerosol Property on the Accuracy of a CO2 Retrieval Algorithm from Satellite Remote Sensing. Remote Sensing, 2016, 8, 322.	4.0	22
68	Solar cycle variations of the electron densities near the ionospheric peak of Venus. Journal of Geophysical Research, 1989, 94, 11997-12002.	3.3	21
69	Uncertainty in biogenic isoprene emissions and its impacts on tropospheric chemistry in East Asia. Science of the Total Environment, 2013, 463-464, 754-771.	8.0	21
70	The effects of <scp>ENSO</scp> under negative <scp>AO</scp> phase on spring dust activity over northern China: an observational investigation. International Journal of Climatology, 2015, 35, 935-947.	3.5	21
71	Investigation of Simultaneous Effects of Aerosol Properties and Aerosol Peak Height on the Air Mass Factors for Space-Borne NO2 Retrievals. Remote Sensing, 2017, 9, 208.	4.0	21
72	Direct radiative forcing of biomass burning aerosols from the extensive Australian wildfires in 2019â€“2020. Environmental Research Letters, 2021, 16, 044041.	5.2	21

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73	A two dimensional shock capturing, hydrodynamic model of the Venus ionosphere. Geophysical Research Letters, 1991, 18, 801-804.	4.0	20
74	Utilization of O₄ slant column density to derive aerosol layer height from a space-borne UVâ€“visible hyperspectral sensor: sensitivity and case study. Atmospheric Chemistry and Physics, 2016, 16, 1987-2006.	4.9	20
75	Potential role of urban forest in removing PM2.5: A case study in Seoul by deep learning with satellite data. Urban Climate, 2021, 36, 100795.	5.7	20
76	Determination of the inter-annual and spatial characteristics of the contribution of long-range transport to SO2 levels in Seoul between 2001 and 2010 based on conditional potential source contribution function (CPSCF). Atmospheric Environment, 2013, 70, 307-317.	4.1	19
77	Dependence of diffuse photosynthetically active solar irradiance on total optical depth. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	18
78	Understanding and improving model representation of aerosol optical properties for a Chinese haze event measured during KORUS-AQ. Atmospheric Chemistry and Physics, 2020, 20, 6455-6478.	4.9	18
79	Relating geostationary satellite measurements of aerosol optical depth (AOD) over East Asia to fine particulate matter (PM_{2.5}): insights from the KORUS-AQ aircraft campaign and GEOS-Chem model simulations. Atmospheric Chemistry and Physics, 2021, 21, 16775-16791.	4.9	18
80	Temperatures of individual ion species and heating due to charge exchange in the ionosphere of Venus. Journal of Geophysical Research, 1990, 95, 6569-6573.	3.3	16
81	Source identification and budget analysis on elevated levels of formaldehyde within the ship plumes: a ship-plume photochemical/dynamic model analysis. Atmospheric Chemistry and Physics, 2010, 10, 11969-11985.	4.9	16
82	Description of a formaldehyde retrieval algorithm for the Geostationary Environment Monitoring Spectrometer (GEMS). Atmospheric Measurement Techniques, 2019, 12, 3551-3571.	3.1	16
83	Development of Korean Air Quality Prediction System version 1 (KAQPS v1) with focuses on practical issues. Geoscientific Model Development, 2020, 13, 1055-1073.	3.6	16
84	Intercomparison of Aerosol Optical Depth from Brewer Ozone spectrophotometers and CIMEL sunphotometers measurements. Atmospheric Chemistry and Physics, 2009, 9, 733-741.	4.9	15
85	Sudden increase in the total ozone density due to secondary ozone peaks and its effect on total ozone trends over Korea. Atmospheric Environment, 2012, 47, 226-235.	4.1	15
86	Introducing the geostationary environment monitoring spectrometer. Journal of Applied Remote Sensing, 2018, 12, 1.	1.3	15
87	Hot oxygen corona at Europa. Geophysical Research Letters, 1998, 25, 4153-4155.	4.0	14
88	Empirical evidence of a positive climate forcing of aerosols at elevated albedo. Atmospheric Research, 2019, 229, 269-279.	4.1	14
89	Aerosol model evaluation using two geostationary satellites over East Asia in May 2016. Atmospheric Research, 2019, 217, 93-113.	4.1	14
90	TEMPO Green Paper: Chemistry, physics, and meteorology experiments with the Tropospheric Emissions: monitoring of pollution instrument. , 2019, , .		14

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91	Characteristics of Classified Aerosol Types in South Korea during the MAPS-Seoul Campaign. Aerosol and Air Quality Research, 2018, 18, 2195-2206.	2.1	14
92	Remote sensing of tropospheric aerosol using UV MAX-DOAS during hazy conditions in winter: Utilization of O4 Absorption bands at wavelength intervals of 338â€“368 and 367â€“393Ânm. Atmospheric Environment, 2011, 45, 5760-5769.	4.1	13
93	Simultaneous retrieval of aerosol properties and clear-sky direct radiative effect over the global ocean from MODIS. Atmospheric Environment, 2014, 92, 309-317.	4.1	13
94	Influence of cloud fraction and snow cover to the variation of surface UV radiation at King Sejong station, Antarctica. Atmospheric Research, 2015, 164-165, 99-109.	4.1	13
95	Wavelength dependence of Ã…ngstrÃ¶m exponent and single scattering albedo observed by skyradiometer in Seoul, Korea. Atmospheric Research, 2016, 181, 12-19.	4.1	13
96	Modeling Asian Dust Storms Using WRFâ€Chem During the DRAGONâ€Asia Field Campaign in April 2012. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034793.	3.3	13
97	Comparison of Model-simulated Atmospheric Carbon Dioxide with GOSAT Retrievals. Asian Journal of Atmospheric Environment, 2011, 5, 263-277.	1.1	13
98	Inferring iron-oxide species content in atmospheric mineral dust from DSCOVR EPIC observations. Atmospheric Chemistry and Physics, 2022, 22, 1395-1423.	4.9	13
99	Computationally efficient air quality forecasting tool: implementation of STOPS v1.5 model into CMAQ v5.0.2 for a prediction of Asian dust. Geoscientific Model Development, 2016, 9, 3671-3684.	3.6	12
100	Spatio-Temporal Characteristics in the Clearness Index Derived from Global Solar Radiation Observations in Korea. Atmosphere, 2016, 7, 55.	2.3	12
101	Cross-evaluation of GEMS tropospheric ozone retrieval performance using OMI data and the use of an ozonesonde dataset over East Asia for validation. Atmospheric Measurement Techniques, 2019, 12, 5201-5215.	3.1	12
102	Assessment of long-range transboundary aerosols in Seoul, South Korea from Geostationary Ocean Color Imager (GOCI) and ground-based observations. Environmental Pollution, 2021, 269, 115924.	7.5	12
103	Quantifying the Impact of Synoptic Weather Systems on High PM_{2.5} Episodes in the Seoul Metropolitan Area, Korea. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034085.	3.3	12
104	A Lagrangian model investigation of chemico-microphysical evolution of northeast Asian pollution plumes within the MBL during TRACE-P. Atmospheric Environment, 2007, 41, 8932-8951.	4.1	11
105	Observational Evidences of Double Cropping Impacts on the Climate in the Northern China Plains. Journal of Climate, 2012, 25, 4721-4728.	3.2	11
106	Characteristics of cloud occurrence using ceilometer measurements and its relationship to precipitation over Seoul. Atmospheric Research, 2018, 201, 46-57.	4.1	11
107	Aerosol data assimilation and forecast using Geostationary Ocean Color Imager aerosol optical depth and in-situ observations during the KORUS-AQ observing period. GIScience and Remote Sensing, 2021, 58, 1175-1194.	5.9	11
108	Regional Characteristics of NO2 Column Densities from Pandora Observations during the MAPS-Seoul Campaign. Aerosol and Air Quality Research, 2018, 18, 2207-2219.	2.1	11

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109	Comparison of PM2.5 in Seoul, Korea Estimated from the Various Ground-Based and Satellite AOD. Applied Sciences (Switzerland), 2021, 11, 10755.	2.5	11
110	Potential impacts of northeastern Eurasian snow cover on generation of dust storms in northwestern China during spring. Climate Dynamics, 2013, 41, 721-733.	3.8	10
111	Estimation of surface-level PM concentration from satellite observation taking into account the aerosol vertical profiles and hygroscopicity. Chemosphere, 2016, 143, 32-40.	8.2	10
112	Aerosol pollution and its potential impacts on outdoor human thermal sensation: East Asian perspectives. Environmental Research, 2017, 158, 753-758.	7.5	10
113	Intercomparison of total column ozone data from the Pandora spectrophotometer with Dobson, Brewer, and OMI measurements over Seoul, Korea. Atmospheric Measurement Techniques, 2017, 10, 3661-3676.	3.1	10
114	Spectral Calibration Algorithm for the Geostationary Environment Monitoring Spectrometer (GEMS). Remote Sensing, 2020, 12, 2846.	4.0	10
115	High-resolution mapping of SO2 using airborne observations from the GeoTASO instrument during the KORUS-AQ field study: PCA-based vertical column retrievals. Remote Sensing of Environment, 2020, 241, 111725.	11.0	10
116	Integration of GOCI and AHI Yonsei aerosol optical depth products during the 2016 KORUS-AQ and 2018 EMeRGe campaigns. Atmospheric Measurement Techniques, 2021, 14, 4575-4592.	3.1	10
117	Electron temperature probe onboard Japanâ€™s Mars orbiter. Earth, Planets and Space, 1999, 51, 1309-1317.	2.5	9
118	Adaptive notch filter design for bending vibration of a sounding rocket. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2001, 215, 13-23.	1.3	9
119	Monitoring Aerosol Properties in East Asia from Geostationary Orbit: GOCI, MI and GEMS. , 2017, , 323-333.		9
120	Comparison of SEVIRI-Derived Cloud Occurrence Frequency and Cloud-Top Height with A-Train Data. Remote Sensing, 2017, 9, 24.	4.0	9
121	Synergistic Use of Hyperspectral UV-Visible OMI and Broadband Meteorological Imager MODIS Data for a Merged Aerosol Product. Remote Sensing, 2020, 12, 3987.	4.0	9
122	Introducing the geostationary environment monitoring spectrometer (Erratum). Journal of Applied Remote Sensing, 2019, 13, 1.	1.3	9
123	Statistical characteristics of secondary ozone density peak observed in Korea. Advances in Space Research, 2005, 36, 952-957.	2.6	8
124	UV Sensitivity to Changes in Ozone, Aerosols, and Clouds in Seoul, South Korea. Journal of Applied Meteorology and Climatology, 2014, 53, 310-322.	1.5	8
125	Retrieving XCO2 from GOSAT FTS over East Asia Using Simultaneous Aerosol Information from CAI. Remote Sensing, 2016, 8, 994.	4.0	8
126	Southern Hemisphere mid- and high-latitudinal AOD, CO, NO2, and HCHO: spatiotemporal patterns revealed by satellite observations. Progress in Earth and Planetary Science, 2019, 6, .	3.0	8

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127	Correlation analysis between regional carbon monoxide and black carbon from satellite measurements. Atmospheric Research, 2017, 196, 29-39.	4.1	7
128	The Effects of Aerosol on the Retrieval Accuracy of NO2 Slant Column Density. Remote Sensing, 2017, 9, 867.	4.0	7
129	Atmospheric Transmission of Ultraviolet and Total Solar Radiation by Clouds, Aerosols, and Ozone in Seoul, Korea: a Comparison of Semi-Empirical Model Predictions with Observations. Asia-Pacific Journal of Atmospheric Sciences, 2019, 55, 165-175.	2.3	7
130	Ground-based retrievals of aerosol column absorption in the UV spectral region and their implications for GEMS measurements. Remote Sensing of Environment, 2020, 245, 111759.	11.0	7
131	Competitive Adsorption of CO₂and H₂O Molecules on the BaO (100) Surface: A First-Principle Study. Bulletin of the Korean Chemical Society, 2011, 32, 988-992.	1.9	7
132	Current Status and Development of Modeling Techniques for Forecasting and Monitoring of Air Quality over East Asia. Journal of Korean Society for Atmospheric Environment, 2013, 29, 407-438.	1.1	7
133	Retrieval and Validation of Aerosol Optical Properties Using Japanese Next Generation Meteorological Satellite, Himawari-8. Korean Journal of Remote Sensing, 2016, 32, 681-691.	0.4	7
134	Observations of OH(3,1) airglow emission using a Michelson interferometer at 62Â° S. Advances in Space Research, 2001, 27, 1165-1170.	2.6	6
135	Measurement of middle atmospheric ozone density profile by rocket-borne radiometer onboard KSR-II. Advances in Space Research, 2001, 27, 2025-2030.	2.6	6
136	2-dimensional Mapping of Sulfur Dioxide and Bromine Oxide at the Sakurajima Volcano with a Ground Based Scanning Imaging Spectrograph System. Journal of the Optical Society of Korea, 2010, 14, 204-208.	0.6	6
137	Springtime trans-Pacific transport of Asian pollutants characterized by the Western Pacific (WP) pattern. Atmospheric Environment, 2016, 147, 166-177.	4.1	6
138	Validation of Brewer and Pandora measurements using OMI total ozone. Atmospheric Environment, 2017, 160, 165-175.	4.1	6
139	Effects of spatiotemporal O4 column densities and temperature-dependent O4 absorption cross-section on an aerosol effective height retrieval algorithm using the O4 air mass factor from the ozone monitoring instrument. Remote Sensing of Environment, 2019, 229, 223-233.	11.0	6
140	Rocket soundings of ozone profiles in the stratosphere over the Korean Peninsula. Journal of Geophysical Research, 1997, 102, 16121-16126.	3.3	5
141	Flight Tests of the KSR-III: The Enhanced Onboard Electronics System. Transactions of the Japan Society for Aeronautical and Space Sciences, 2004, 47, 108-115.	0.7	5
142	Combined measurements of a UV mini MAX-DOAS system and a TX for retrieval of ambient trace gas mixing ratio: Comparisons with combined RTM and MAX-DOAS methods. Atmospheric Environment, 2011, 45, 7218-7226.	4.1	5
143	Assessment of Aerosol optical depth under background and polluted conditions using AERONET and VIIRS datasets. Atmospheric Environment, 2021, 245, 117994.	4.1	5
144	Assessing the Altitudinal Potential Source Contribution Function of Aerosol Optical Depth in the West Coast of Korean Peninsula during the DRAGON-KORUS-AQ Campaign. Journal of Korean Society for Atmospheric Environment, 2017, 33, 19-30.	1.1	5

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145	Continuous mapping of fine particulate matter (PM_{2.5}) air quality in East Asia at daily 6â€‰â€‰Ã—â€‰â€‰6â€‰km² resolution by application of a random forest algorithm to 2011â€“2019 GOCI geostationary satellite data. Atmospheric Measurement Techniques, 2022, 15, 1075-1091.	3.1	5
146	Geostationary satellite-derived ground-level particulate matter concentrations using real-time machine learning in Northeast Asia. Environmental Pollution, 2022, 306, 119425.	7.5	5
147	Regional forecast of the UV index with optimized total ozone prediction using satellite observations over East Asia. International Journal of Remote Sensing, 2009, 30, 6035-6051.	2.9	4
148	Effect of temperature-dependent cross sections on O4 slant column density estimation by a space-borne UVâ€“visible hyperspectral sensor. Atmospheric Environment, 2017, 152, 98-110.	4.1	4
149	Retrieval Accuracy of HCHO Vertical Column Density from Ground-Based Direct-Sun Measurement and First HCHO Column Measurement Using Pandora. Remote Sensing, 2018, 10, 173.	4.0	4
150	Investigation of the relationship between the fine mode fraction and Ã…ngstrÃ¶m exponent: Cases in Korea. Atmospheric Research, 2021, 248, 105217.	4.1	4
151	A Fast Retrieval of Cloud Parameters Using a Triplet of Wavelengths of Oxygen Dimer Band around 477 nm. Remote Sensing, 2021, 13, 152.	4.0	4
152	Estimation of Surface Reflectance by Utilizing Single Visible Reflectance from COMS Meteorological Imager - Analysis of BAOD correction effect -. Korean Journal of Remote Sensing, 2014, 30, 627-639.	0.4	4
153	Effects of precipitation physics algorithms on a simulated climate in a general circulation model. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1924-1934.	1.6	3
154	First comparison of OMIâ€ÐOAS total ozone using groundâ€based observations at a megacity site in East Asia: Causes of discrepancy and improvement in OMIâ€ÐOAS total ozone during summer. Journal of Geophysical Research D: Atmospheres, 2014, 119, 10058-10067.	3.3	3
155	Ozone production efficiency of a ship-plume: ITCT 2K2 case study. Chemosphere, 2016, 143, 17-23.	8.2	3
156	Detection of Absorbing Aerosol Using Single Near-UV Radiance Measurements from a Cloud and Aerosol Imager. Remote Sensing, 2017, 9, 378.	4.0	3
157	Total ozone characteristics associated with regional meteorology in West Antarctica. Atmospheric Environment, 2018, 195, 78-88.	4.1	3
158	Broadband dependence of atmospheric transmissions in the UV and total solar radiation. Tellus, Series B: Chemical and Physical Meteorology, 2019, 71, 1503513.	1.6	3
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160	Refractive Index for Asian Dust in the Ultravioletâ€Visible Region Determined From Compositional Analysis and Validated With OMI Observations. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD030629.	3.3	3
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