

# Gerrit de Leeuw

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3185057/publications.pdf>

Version: 2024-02-01

208  
papers

11,917  
citations

34016

52  
h-index

39575

94  
g-index

280  
all docs

280  
docs citations

280  
times ranked

9677  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mobility particle size spectrometers: harmonization of technical standards and data structure to facilitate high quality long-term observations of atmospheric particle number size distributions. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 657-685.	1.2	689
2	Marine aerosol production: a review of the current knowledge. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 1753-1774.	1.6	575
3	Production flux of sea spray aerosol. <i>Reviews of Geophysics</i> , 2011, 49, .	9.0	458
4	Primary submicron marine aerosol dominated by insoluble organic colloids and aggregates. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	380
5	The ESA Climate Change Initiative: Satellite Data Records for Essential Climate Variables. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 1541-1552.	1.7	355
6	Global observations of aerosol-cloud-precipitation-climate interactions. <i>Reviews of Geophysics</i> , 2014, 52, 750-808.	9.0	316
7	Characterization and intercomparison of aerosol absorption photometers: result of two intercomparison workshops. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 245-268.	1.2	284
8	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) – integrating aerosol research from nano to global scales. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 13061-13143.	1.9	278
9	EUCAARI ion spectrometer measurements at 12 European sites – analysis of new particle formation events. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7907-7927.	1.9	248
10	Production of sea spray aerosol in the surf zone. <i>Journal of Geophysical Research</i> , 2000, 105, 29397-29409.	3.3	223
11	Number size distributions and seasonality of submicron particles in Europe 2008–2009. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5505-5538.	1.9	214
12	Exploring the relation between aerosol optical depth and PM <sub>2.5</sub> at Cabauw, the Netherlands. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 909-925.	1.9	211
13	A dedicated study of New Particle Formation and Fate in the Coastal Environment (PARFORCE): Overview of objectives and achievements. <i>Journal of Geophysical Research</i> , 2002, 107, PAR 1-1.	3.3	165
14	Surfactants and submicron sea spray generation. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	155
15	Retrieval of aerosol optical depth over land using two-angle view satellite radiometry during TARFOX. <i>Geophysical Research Letters</i> , 1998, 25, 3135-3138.	1.5	148
16	Laboratory-generated primary marine aerosol via bubble-bursting and atomization. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 141-162.	1.2	142
17	The Arctic Summer Cloud Ocean Study (ASCOS): overview and experimental design. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2823-2869.	1.9	140
18	Development, Production and Evaluation of Aerosol Climate Data Records from European Satellite Observations (Aerosol_cci). <i>Remote Sensing</i> , 2016, 8, 421.	1.8	131

#	ARTICLE	IF	CITATIONS
19	Comparison of ambient aerosol extinction coefficients obtained from in-situ, MAX-DOAS and LIDAR measurements at Cabauw. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2603-2624.	1.9	126
20	Coastal new particle formation: Environmental conditions and aerosol physicochemical characteristics during nucleation bursts. <i>Journal of Geophysical Research</i> , 2002, 107, PAR 12-1.	3.3	121
21	The Impact of the Control Measures during the COVID-19 Outbreak on Air Pollution in China. <i>Remote Sensing</i> , 2020, 12, 1613.	1.8	117
22	A sea spray aerosol flux parameterization encapsulating wave state. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1837-1852.	1.9	113
23	Evaluation of seven European aerosol optical depth retrieval algorithms for climate analysis. <i>Remote Sensing of Environment</i> , 2015, 162, 295-315.	4.6	112
24	Nine-year spatial and temporal evolution of desert dust aerosols over South and East Asia as revealed by CALIOP. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1337-1362.	1.9	112
25	Relationship of oceanic whitecap coverage to wind speed and wind history. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	111
26	On the impacts of phytoplankton-derived organic matter on the properties of the primary marine aerosol – Part 1: Source fluxes. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9295-9317.	1.9	109
27	A regional-to-global model of emission and transport of sea salt particles in the atmosphere. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	109
28	Aerosol remote sensing in polar regions. <i>Earth-Science Reviews</i> , 2015, 140, 108-157.	4.0	106
29	Two decades of satellite observations of AOD over mainland China using ATSR-2, AATSR and MODIS/Terra: data set evaluation and large-scale patterns. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1573-1592.	1.9	105
30	Uncertainty information in climate data records from Earth observation. <i>Earth System Science Data</i> , 2017, 9, 511-527.	3.7	100
31	Modeling coastal aerosol transport and effects of surf-produced aerosols on processes in the marine atmospheric boundary layer. <i>Journal of Geophysical Research</i> , 2001, 106, 20225-20238.	3.3	99
32	Merging regional and global aerosol optical depth records from major available satellite products. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 2031-2056.	1.9	98
33	Submicron sea spray fluxes. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	92
34	The Cabauw Intercomparison campaign for Nitrogen Dioxide measuring Instruments (CINDI): design, execution, and early results. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 457-485.	1.2	83
35	Overview of the synoptic and pollution situation over Europe during the EUCAARI-LONGREX field campaign. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1065-1082.	1.9	79
36	Air pollution scenario over Pakistan: Characterization and ranking of extremely polluted cities using long-term concentrations of aerosols and trace gases. <i>Remote Sensing of Environment</i> , 2021, 264, 112617.	4.6	79

#	ARTICLE	IF	CITATIONS
37	Sea-salt aerosol source functions and emissions. <i>Advances in Global Change Research</i> , 2004, , 333-359.	1.6	78
38	Characteristic features of air ions at Mace Head on the west coast of Ireland. <i>Atmospheric Research</i> , 2008, 90, 278-286.	1.8	77
39	Aerosol retrieval experiments in the ESA Aerosol_cci project. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 1919-1957.	1.2	76
40	Reconciliation of coarse mode sea-salt aerosol particle size measurements and parameterizations at a subtropical ocean receptor site. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	72
41	Seasonal cycle, size dependencies, and source analyses of aerosol optical properties at the SMEAR II measurement station in HyytiÄĀ, Finland. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4445-4468.	1.9	72
42	Angular Illumination and Truncation of Three Different Integrating Nephelometers: Implications for Empirical, Size-Based Corrections. <i>Aerosol Science and Technology</i> , 2009, 43, 581-586.	1.5	71
43	Relative contribution of submicron and supermicron particles to aerosol light scattering in the marine boundary layer. <i>Journal of Geophysical Research</i> , 2002, 107, PAR 8-1.	3.3	70
44	Transfer Across the Air-Sea Interface. <i>Springer Earth System Sciences</i> , 2014, , 55-112.	0.1	69
45	Optical Measurement of Bubbles: System Design and Application. <i>Journal of Atmospheric and Oceanic Technology</i> , 2003, 20, 1317-1332.	0.5	68
46	Spatial and seasonal variations of aerosols over China from two decades of multi-satellite observations â€“ Part 2: AOD time series for 1995â€“2017 combined from ATSR ADV and MODIS C6.1 and AOD tendency estimations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16631-16652.	1.9	67
47	Regional Distribution of Aerosol over Land, Derived from ATSR-2 and GOME. <i>Remote Sensing of Environment</i> , 2000, 74, 377-386.	4.6	66
48	The North Atlantic Marine Boundary Layer Experiment(NAMBLEX). Overview of the campaign held at Mace Head, Ireland, in summer 2002. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 2241-2272.	1.9	65
49	Modelling of bubble-mediated gas transfer: Fundamental principles and a laboratory test. <i>Journal of Marine Systems</i> , 2007, 66, 71-91.	0.9	65
50	Investigating Primary Marine Aerosol Properties: CCN Activity of Sea Salt and Mixed Inorganicâ€“Organic Particles. <i>Environmental Science &amp; Technology</i> , 2012, 46, 10405-10412.	4.6	64
51	South African EUCAARI measurements: seasonal variation of trace gases and aerosol optical properties. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1847-1864.	1.9	62
52	Modeling Spatio-Temporal Land Transformation and Its Associated Impacts on land Surface Temperature (LST). <i>Remote Sensing</i> , 2020, 12, 2987.	1.8	62
53	In situ laboratory sea spray production during the Marine Aerosol Production 2006 cruise on the northeastern Atlantic Ocean. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	58
54	A new algorithm to determine the spectral aerosol optical depth from satellite radiometer measurements. <i>Journal of Aerosol Science</i> , 1998, 29, 1237-1248.	1.8	57

#	ARTICLE	IF	CITATIONS
55	Pan-Eurasian Experiment (PEEX): towards a holistic understanding of the feedbacks and interactions in the land-atmosphere-ocean-society continuum in the northern Eurasian region. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14421-14461.	1.9	57
56	Assessment of the atmospheric nitrogen and sulphur inputs into the North Sea using a Lagrangian model. <i>Physics and Chemistry of the Earth</i> , 2002, 27, 1507-1515.	1.2	56
57	Deposition of atmospheric trace elements into the north sea. <i>Atmospheric Environment</i> , 1998, 32, 3011-3025.	1.9	55
58	Aerosol optical depth retrieval using ATSR-2 and AVHRR data during TARFOX. <i>Journal of Geophysical Research</i> , 1999, 104, 2253-2260.	3.3	55
59	Natural and anthropogenic contributions to long-term variations of SO <sub>2</sub> , NO <sub>2</sub> , CO, and AOD over East China. <i>Atmospheric Research</i> , 2019, 215, 284-293.	1.8	55
60	The ADV/ASV AATSR aerosol retrieval algorithm: current status and presentation of a full-mission AOD dataset. <i>International Journal of Digital Earth</i> , 2016, 9, 545-561.	1.6	54
61	The RED Experiment: An Assessment of Boundary Layer Effects in a Trade Winds Regime on Microwave and Infrared Propagation over the Sea. <i>Bulletin of the American Meteorological Society</i> , 2004, 85, 1355-1366.	1.7	53
62	Intercomparison of aerosol extinction profiles retrieved from MAX-DOAS measurements. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 3205-3222.	1.2	53
63	Physical Exchanges at the Air-Sea Interface: UK-SOLAS Field Measurements. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 629-644.	1.7	52
64	Spatial and seasonal variations of aerosols over China from two decades of multi-satellite observations - Part 1: ATSR (1995-2011) and MODIS C6.1 (2000-2017). <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11389-11407.	1.9	52
65	Aerosol optical depth over Europe in August 1997 derived from ATSR-2 data. <i>Geophysical Research Letters</i> , 2000, 27, 955-958.	1.5	51
66	Soot on Snow experiment: bidirectional reflectance factor measurements of contaminated snow. <i>Cryosphere</i> , 2015, 9, 2323-2337.	1.5	50
67	Measurements of bubble size spectra within leads in the Arctic summer pack ice. <i>Ocean Science</i> , 2011, 7, 129-139.	1.3	50
68	Atmospheric nitrogen inputs into the North Sea: effect on productivity. <i>Continental Shelf Research</i> , 2003, 23, 1743-1755.	0.9	48
69	Eddy covariance measurements of sea spray particles over the Atlantic Ocean. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 555-563.	1.9	48
70	Joint retrieval of the aerosol fine mode fraction and optical depth using MODIS spectral reflectance over northern and eastern China: Artificial neural network method. <i>Remote Sensing of Environment</i> , 2020, 249, 112006.	4.6	48
71	A consistent aerosol optical depth (AOD) dataset over mainland China by integration of several AOD products. <i>Atmospheric Environment</i> , 2015, 114, 48-56.	1.9	47
72	Modeling aerosol particle size distributions over the North Sea. <i>Journal of Geophysical Research</i> , 1992, 97, 14417-14429.	3.3	46

#	ARTICLE	IF	CITATIONS
73	Retrieval of aerosol optical depth and surface reflectance over land from NOAA AVHRR data. Remote Sensing of Environment, 2013, 133, 1-20.	4.6	46
74	Spatial distributions and seasonal cycles of aerosols in India and China seen in global climate-aerosol model. Atmospheric Chemistry and Physics, 2011, 11, 7975-7990.	1.9	45
75	Analysis of aerosol effects on warm clouds over the Yangtze River Delta from multi-sensor satellite observations. Atmospheric Chemistry and Physics, 2017, 17, 5623-5641.	1.9	45
76	Development of the Mediterranean extinction code (MEDEX). Optical Engineering, 2003, 42, 912.	0.5	44
77	On the representativeness of coastal aerosol studies to open ocean studies: Mace Head " a case study. Atmospheric Chemistry and Physics, 2009, 9, 9635-9646.	1.9	44
78	Technical note: First comparison of wind observations from ESA's satellite mission Aeolus and ground-based radar wind profiler network of China. Atmospheric Chemistry and Physics, 2021, 21, 2945-2958.	1.9	43
79	Lidar observations of atmospheric boundary layer structure and sea spray aerosol plumes generation and transport at Mace Head, Ireland (PARFORCE experiment). Journal of Geophysical Research, 2002, 107, PAR 11-1.	3.3	42
80	Interactions between the atmosphere, cryosphere, and ecosystems at northern high latitudes. Atmospheric Chemistry and Physics, 2019, 19, 2015-2061.	1.9	42
81	Atmospheric input of nitrogen into the North Sea: ANICE project overview. Continental Shelf Research, 2001, 21, 2073-2094.	0.9	41
82	Variations in tropospheric submicron particle size distributions across the European continent 2008"2009. Atmospheric Chemistry and Physics, 2014, 14, 4327-4348.	1.9	41
83	Evolving research directions in Surface Ocean - Lower Atmosphere (SOLAS) science. Environmental Chemistry, 2013, 10, 1.	0.7	40
84	An AeroCom" AeroSat study: intercomparison of satellite AOD datasets for aerosol model evaluation. Atmospheric Chemistry and Physics, 2020, 20, 12431-12457.	1.9	40
85	Evaluating the assumptions of surface reflectance and aerosol type selection within the MODIS aerosol retrieval over land: the problem of dust type selection. Atmospheric Measurement Techniques, 2011, 4, 201-214.	1.2	38
86	Effect of the summer monsoon on aerosols at two measurement stations in Northern India " Part 2: Physical and optical properties. Atmospheric Chemistry and Physics, 2011, 11, 8283-8294.	1.9	38
87	Parameterization of oceanic whitecap fraction based on satellite observations. Atmospheric Chemistry and Physics, 2016, 16, 13725-13751.	1.9	38
88	Wintertime Arctic Ocean sea water properties and primary marine aerosol concentrations. Atmospheric Chemistry and Physics, 2012, 12, 10405-10421.	1.9	37
89	Retrieval of aerosol optical depth over land based on a time series technique using MSG/SEVIRI data. Atmospheric Chemistry and Physics, 2012, 12, 9167-9185.	1.9	37
90	Near-surface measurements of sea spray aerosol production over whitecaps in the open ocean. Ocean Science, 2013, 9, 133-145.	1.3	37

#	ARTICLE	IF	CITATIONS
91	Insulation effects of Icelandic dust and volcanic ash on snow and ice. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	0.6	37
92	Spatial and temporal distribution characteristics of haze days and associated factors in China from 1973 to 2017. <i>Atmospheric Environment</i> , 2019, 214, 116862.	1.9	37
93	Growth rates during coastal and marine new particle formation in western Ireland. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	36
94	Aerosol optical depth retrieval in the Arctic region using MODIS data over snow. <i>Remote Sensing of Environment</i> , 2013, 128, 234-245.	4.6	36
95	Collocation mismatch uncertainties in satellite aerosol retrieval validation. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 925-938.	1.2	36
96	Integration of remote sensing data and surface observations to estimate the impact of the Russian wildfires over Europe and Asia during August 2010. <i>Biogeosciences</i> , 2011, 8, 3771-3791.	1.3	35
97	Brief communication: Light-absorbing impurities can reduce the density of melting snow. <i>Cryosphere</i> , 2014, 8, 991-995.	1.5	35
98	Post-processing to remove residual clouds from aerosol optical depth retrieved using the Advanced Along Track Scanning Radiometer. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 491-505.	1.2	35
99	Spatial variation of aerosol properties over Europe derived from satellite observations and comparison with model calculations. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 521-533.	1.9	34
100	Benchmarking CMIP5 models with a subset of ESA CCI Phase 2 data using the ESMValTool. <i>Remote Sensing of Environment</i> , 2017, 203, 9-39.	4.6	34
101	Electro-optical propagation assessment in coastal environments (EOPACE): summary and accomplishments. <i>Optical Engineering</i> , 2001, 40, 1486.	0.5	33
102	Global modelling of direct and indirect effects of sea spray aerosol using a source function encapsulating wave state. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11731-11752.	1.9	33
103	Bubbles generated from wind-steepened breaking waves: 1. Bubble plume bubbles. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	32
104	Retrieval of aerosol optical depth over land surfaces from AVHRR data. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 2411-2420.	1.2	32
105	Low hygroscopic scattering enhancement of boreal aerosol and the implications for a columnar optical closure study. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7247-7267.	1.9	32
106	The first estimates of global nucleation mode aerosol concentrations based on satellite measurements. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10791-10801.	1.9	31
107	Long-time series aerosol optical depth retrieval from AVHRR data over land in North China and Central Europe. <i>Remote Sensing of Environment</i> , 2017, 198, 471-489.	4.6	31
108	Himawari-8 Aerosol Optical Depth (AOD) Retrieval Using a Deep Neural Network Trained Using AERONET Observations. <i>Remote Sensing</i> , 2020, 12, 4125.	1.8	31

#	ARTICLE	IF	CITATIONS
109	Secondary bubble production from breaking waves: The bubble burst mechanism. <i>Geophysical Research Letters</i> , 2000, 27, 4077-4080.	1.5	30
110	Estimates of the aerosol indirect effect over the Baltic Sea region derived from 12 years of MODIS observations. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 3133-3143.	1.9	29
111	Variations and photochemical transformations of atmospheric constituents in North China. <i>Atmospheric Environment</i> , 2018, 189, 213-226.	1.9	29
112	Estimating Spatio-Temporal Variations of PM <sub>2.5</sub> Concentrations Using VIIRS-Derived AOD in the Guanzhong Basin, China. <i>Remote Sensing</i> , 2019, 11, 2679.	1.8	29
113	Ocean-Atmosphere Interactions of Particles. <i>Springer Earth System Sciences</i> , 2014, , 171-246.	0.1	29
114	Formation and production of sea spray aerosol. <i>Journal of Aerosol Science</i> , 1996, 27, S65-S66.	1.8	28
115	Measurements of Humidity and Temperature in the Marine Environment during the HEXOS Main Experiment. <i>Journal of Atmospheric and Oceanic Technology</i> , 1994, 11, 964-981.	0.5	27
116	Calibrating optical bubble size by the displaced-mass method. <i>Chemical Engineering Science</i> , 2003, 58, 5211-5216.	1.9	27
117	A Compact Lightweight Aerosol Spectrometer Probe (CLASP). <i>Journal of Atmospheric and Oceanic Technology</i> , 2008, 25, 1996-2006.	0.5	27
118	Preliminary Investigation of a New AHI Aerosol Optical Depth (AOD) Retrieval Algorithm and Evaluation with Multiple Source AOD Measurements in China. <i>Remote Sensing</i> , 2018, 10, 748.	1.8	27
119	AEROCOM and AEROSAT AAOD and SSA study – Part 1: Evaluation and intercomparison of satellite measurements. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6895-6917.	1.9	27
120	Tropical and Boreal Forest – Atmosphere Interactions: A Review. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 74, 24.	0.8	27
121	Aerosol retrieval over land using the (A)ATSR dual-view algorithm. , 2009, , 135-159.		26
122	Extension of the Navy aerosol model to coastal areas. <i>Optical Engineering</i> , 2000, 39, 1620.	0.5	25
123	Evaluation and comparison of CMIP6 models and MERRA-2 reanalysis AOD against Satellite observations from 2000 to 2014 over China. <i>Geoscience Frontiers</i> , 2022, 13, 101325.	4.3	25
124	Ash plume top height estimation using AATSR. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 2437-2456.	1.2	24
125	Establishment of Conceptual Schemas of Surface Synoptic Meteorological Situations Affecting Fine Particulate Pollution Across Eastern China in the Winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033153.	1.2	24
126	Meteorological influences on coastal new particle formation. <i>Journal of Geophysical Research</i> , 2002, 107, PAR 7-1.	3.3	23

#	ARTICLE	IF	CITATIONS
127	Primary sources control the variability of aerosol optical properties in the Antarctic Peninsula. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 70, 1414571.	0.8	23
128	Bubbles generated from wind-steepened breaking waves: 2. Bubble plumes, bubbles, and wave characteristics. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	22
129	Variability of NO <sub>2</sub> concentrations over China and effect on air quality derived from satellite and ground-based observations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 7723-7748.	1.9	22
130	Evaluation of simulated aerosol properties with the aerosol-climate model ECHAM5-HAM using observations from the IMPACT field campaign. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7709-7722.	1.9	21
131	Aerosol retrievals over China with the AATSR dual view algorithm. <i>Remote Sensing of Environment</i> , 2012, 116, 189-198.	4.6	21
132	The Impacts of the COVID-19 Lockdown on Air Quality in the Guanzhong Basin, China. <i>Remote Sensing</i> , 2020, 12, 3042.	1.8	21
133	Profiling of aerosol concentrations, particle size distributions and relative humidity in the atmospheric surface layer over the North Sea. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 42, 342.	0.8	21
134	Aerosol optical depth retrieval over snow using AATSR data. <i>International Journal of Remote Sensing</i> , 2013, 34, 5030-5041.	1.3	20
135	Stratospheric aerosol data records for the climate change initiative: Development, validation and application to chemistry-climate modelling. <i>Remote Sensing of Environment</i> , 2017, 203, 296-321.	4.6	20
136	Interdecadal Changes in Aerosol Optical Depth over Pakistan Based on the MERRA-2 Reanalysis Data during 1980–2018. <i>Remote Sensing</i> , 2021, 13, 822.	1.8	20
137	Characterization of aerosols at a coastal site near Vindeby (Denmark). <i>Journal of Geophysical Research</i> , 1999, 104, 3277-3287.	3.3	19
138	On the variation of aerosol properties over Finland based on the optical columnar measurements. <i>Atmospheric Research</i> , 2012, 116, 46-55.	1.8	19
139	Satellite observations of changes in snow-covered land surface albedo during spring in the Northern Hemisphere. <i>Cryosphere</i> , 2015, 9, 1879-1893.	1.5	19
140	PAN EURASIAN EXPERIMENT (PEEX) - A RESEARCH INITIATIVE MEETING THE GRAND CHALLENGES OF THE CHANGING ENVIRONMENT OF THE NORTHERN PAN-EURASIAN ARCTIC-BOREAL AREAS. <i>Geography, Environment, Sustainability</i> , 2014, 7, 13-48.	0.6	19
141	On the use of a satellite remote-sensing-based approach for determining aerosol direct radiative effect over land: a case study over China. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 505-518.	1.9	18
142	Dry deposition of particles to ocean surfaces. <i>Ophelia</i> , 1995, 42, 193-204.	0.3	17
143	Low-altitude infrared propagation in a coastal zone: refraction and scattering. <i>Applied Optics</i> , 2002, 41, 3706.	2.1	17
144	Atmospheric effect on the ground-based measurements of broadband surface albedo. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2675-2688.	1.2	17

#	ARTICLE	IF	CITATIONS
145	Prescribed burning of logging slash in the boreal forest of Finland: emissions and effects on meteorological quantities and soil properties. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4473-4502.	1.9	17
146	Improved inversion of aerosol components in the atmospheric column from remote sensing data. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12795-12811.	1.9	17
147	Optical modeling of volcanic ash particles using ellipsoids. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 4102-4116.	1.2	16
148	Near-surface aerosol transmission in the marine environment. , 2003, 4884, 160.		15
149	Flux divergence of nitric acid in the marine atmospheric surface layer. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	15
150	Characterization of satellite-based proxies for estimating nucleation mode particles over South Africa. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 4983-4996.	1.9	15
151	Eddy Correlation Measurements of Sea Spray Aerosol Fluxes. <i>Environmental Science and Engineering</i> , 2007, , 297-311.	0.1	15
152	Modeling Of Aerosols In The Marine Mixed-Layer. , 1989, , .		13
153	Data flow of spectral UV measurements at Sodankylä and Jokioinen. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2016, 5, 193-203.	0.6	13
154	A neural network algorithm for cloud fraction estimation using NASA-Aura OMI VIS radiance measurements. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 2301-2309.	1.2	12
155	Evaluation of aerosol and cloud properties in three climate models using MODIS observations and its corresponding COSP simulator, as well as their application in aerosol–cloud interactions. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 1607-1626.	1.9	12
156	PAN-EURASIAN EXPERIMENT (PEEX) PROGRAM: AN OVERVIEW OF THE FIRST 5 YEARS IN OPERATION AND FUTURE PROSPECTS. <i>Geography, Environment, Sustainability</i> , 2018, 11, 6-19.	0.6	11
157	Integration of Surface Reflectance and Aerosol Retrieval Algorithms for Multi-Resolution Aerosol Optical Depth Retrievals over Urban Areas. <i>Remote Sensing</i> , 2022, 14, 373.	1.8	11
158	Spatiotemporal changes in aerosols over Bangladesh using 18 years of MODIS and reanalysis data. <i>Journal of Environmental Management</i> , 2022, 315, 115097.	3.8	11
159	Physical and optical aerosol properties at the Dutch North Sea coast based on AERONET observations. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 3481-3495.	1.9	10
160	Impact of ammonium nitrate chemistry on the AOT in Cabauw, the Netherlands. <i>Atmospheric Environment</i> , 2011, 45, 5640-5646.	1.9	10
161	Understanding MODIS dark-target collection 5 and 6 aerosol data over China: Effect of surface type, aerosol loading and aerosol absorption. <i>Atmospheric Research</i> , 2019, 228, 161-175.	1.8	10
162	Spatiotemporal variation and provincial scale differences of the AOD across China during 2000–2021. <i>Atmospheric Pollution Research</i> , 2022, 13, 101359.	1.8	10

#	ARTICLE	IF	CITATIONS
163	Comparison of aerosol optical properties at the sub-arctic stations ALOMAR-Andenes, Abisko and Sodankylä in late spring and summer 2007. <i>Atmospheric Research</i> , 2012, 107, 20-30.	1.8	9
164	Bubbles Outside the Plume During the LUMINY Wind-Wave Experiment. <i>Geophysical Monograph Series</i> , 0, , 295-301.	0.1	9
165	Satellite-based estimate of the variability of warm cloud properties associated with aerosol and meteorological conditions. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 18187-18202.	1.9	9
166	Satellite Observations of PM <sub>2.5</sub> Changes and Driving Factors Based Forecasting Over China 2000–2025. <i>Remote Sensing</i> , 2020, 12, 2518.	1.8	9
167	Solar UV radiation measurements in Marambio, Antarctica, during years 2017–2019. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 6037-6054.	1.9	9
168	Multi-dimensional satellite observations of aerosol properties and aerosol types over three major urban clusters in eastern China. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12331-12358.	1.9	9
169	New continuous total ozone, UV, VIS and PAR measurements at Marambio, 64°S, Antarctica. <i>Earth System Science Data</i> , 2020, 12, 947-960.	3.7	9
170	An automated day-time cloud detection technique applied to MSG-SEVIRI data over Western Europe. <i>International Journal of Remote Sensing</i> , 2010, 31, 6073-6093.	1.3	8
171	Determination of land surface reflectance using the AATSR dual-view capability. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 891-906.	1.2	8
172	Six years of surface remote sensing of stratiform warm clouds in marine and continental air over Mace Head, Ireland. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 14,538.	1.2	8
173	UV measurements at Marambio and Ushuaia during 2000–2010. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16019-16031.	1.9	8
174	Summertime Aerosol Radiative Effects and Their Dependence on Temperature over the Southeastern USA. <i>Atmosphere</i> , 2018, 9, 180.	1.0	8
175	A Critical Evaluation of Deep Blue Algorithm Derived AVHRR Aerosol Product Over China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12173-12193.	1.2	8
176	Air Quality over China. <i>Remote Sensing</i> , 2021, 13, 3542.	1.8	8
177	Uncertainty in Aqua-MODIS Aerosol Retrieval Algorithms During COVID-19 Lockdown. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.	1.4	8
178	Retrieval of Aerosol Properties. <i>Physics of Earth and Space Environments</i> , 2011, , 259-313.	0.5	8
179	Neural Network AEROSol Retrieval for Geostationary Satellite (NNAeroG) Based on Temporal, Spatial and Spectral Measurements. <i>Remote Sensing</i> , 2022, 14, 980.	1.8	8
180	Observational evidence for aerosols increasing upper tropospheric humidity. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14331-14342.	1.9	7

#	ARTICLE	IF	CITATIONS
181	Contrasting Aerosol Optical Characteristics and Source Regions During Summer and Winter Pollution Episodes in Nanjing, China. <i>Remote Sensing</i> , 2019, 11, 1696.	1.8	7
182	In search of traceability: two decades of calibrated Brewer UV measurements in Sodankylä and Jokioinen. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2016, 5, 531-540.	0.6	7
183	Aerosol extinction in coastal zones. , 2004, , .		6
184	Characteristics of bubble plumes, bubble-plume bubbles and waves from wind-steepened wave breaking. <i>Journal of Marine Systems</i> , 2007, 66, 61-70.	0.9	6
185	Remote sensing of aerosols and clouds: Techniques and applications (editorial to special issue in) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.8	6
186	The Silk Road agenda of the Pan-Eurasian Experiment (PEEX) program. <i>Big Earth Data</i> , 2018, 2, 8-35.	2.0	6
187	Himawari-8-Derived Aerosol Optical Depth Using an Improved Time Series Algorithm Over Eastern China. <i>Remote Sensing</i> , 2020, 12, 978.	1.8	6
188	Supplement to Physical Exchanges at the Air-Sea Interface: UK SOLAS Field Measurements. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, ES9-ES16.	1.7	5
189	Progress in the determination of the sea spray source function using satellite data. <i>Journal of Integrative Environmental Sciences</i> , 2010, 7, 159-166.	1.0	5
190	Indirect estimation of absorption properties for fine aerosol particles using AATSR observations: a case study of wildfires in Russia in 2010. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 3075-3085.	1.2	5
191	Investigations into the development of a satellite-based aerosol climate data record using ATSR-2, AATSR and AVHRR data over north-eastern China from 1987 to 2012. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 4091-4112.	1.2	4
192	<title>Low-elevation transmission measurements at EOPACE I. Molecular and aerosol effects</title>. , 1997, , .		3
193	Determination of Atmospheric Aerosol Properties Over Land Using Satellite Measurements. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 235-237.	1.7	3
194	PAN EURASIAN EXPERIMENT (PEEX)â€”A RESEARCH INITIATIVE MEETING THE GRAND CHALLENGES OF THE CHANGING ENVIRONMENT OF THE NORTHERN PAN-EURASIAN ARCTIC-BOREAL AREAS. <i>Geography, Environment, Sustainability</i> , 2014, , 13-48.	0.6	3
195	<title>Extensive analysis of low-level IR transmission measurements taken over a 15-km path during EOPACE with IRBLEM</title>. , 1998, , .		2
196	The dedicated aerosol retrieval experiment (DARE): scientific requirements for a dedicated satellite instrument to measure atmospheric aerosols. , 2004, , .		2
197	Connecting ground-based in-situ observations, ground-based remote sensing and satellite data within the Pan Eurasian Experiment (PEEX) program. <i>Proceedings of SPIE</i> , 2014, , .	0.8	2
198	Selecting algorithms for Earth observation of climate within the European Space Agency Climate Change Initiative: Introduction to a special issue. <i>Remote Sensing of Environment</i> , 2015, 162, 239-241.	4.6	2

#	ARTICLE	IF	CITATIONS
199	Data Quality and Validation of Satellite Measurements of Tropospheric Composition. Physics of Earth and Space Environments, 2011, , 315-364.	0.5	2
200	Perspectives and Integration in SOLAS Science. Springer Earth System Sciences, 2014, , 247-306.	0.1	2
201	<title>Scintillation measurements during the EOPACE November '96 and August '97 campaigns</title>., 1998, , .		1
202	DARE: a dedicated aerosols retrieval instrument. Acta Astronautica, 2004, 55, 239-244.	1.7	1
203	Atmospheric Aerosols and Climate. Advances in Meteorology, 2010, 2010, 1-2.	0.6	1
204	Microphysical Processes of a Cold Vortex during Its Movement to the East: A Case Study. Atmosphere, 2020, 11, 1083.	1.0	1
205	DARE: dedicated aerosols retrieval experiment. , 2004, , .		0
206	Aerosols may increase upper tropospheric humidity. , 2013, , .		0
207	Aerosol optical properties in Finland during Russian forest fires in 2010. , 2013, , .		0
208	PM2.5 Concentrations Over Europe. , 2004, , 233-242.		0