

Manfred Wendisch

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253
papers

6,482
citations

49
h-index

68
g-index

330^o
ext. papers

7,774
ext. citations

5
avg, IF

5.21
L-index

#	Paper	IF	Citations
253	Divergent consensus on Arctic amplification influence on midlatitude severe winter weather. <i>Nature Climate Change</i> , 2020 , 10, 20-29	21.4	200
252	Saharan Mineral Dust Experiments SAMUM ¹ and SAMUM ² : what have we learned?. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2011 , 63, 403-429	3.3	164
251	Introduction: Observations and Modeling of the Green Ocean Amazon (GoAmazon2014/5). <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 4785-4797	6.8	162
250	Optical and microphysical characterization of biomass-burning and industrial-pollution aerosols from multiwavelength lidar and aircraft measurements. <i>Journal of Geophysical Research</i> , 2002 , 107, LAC 7-1-LAC 7-20		139
249	Relative humidity dependence of aerosol optical properties and direct radiative forcing in the surface boundary layer at Xinken in Pearl River Delta of China: An observation based numerical study. <i>Atmospheric Environment</i> , 2008 , 42, 6373-6397	5.3	136
248	Assessing 1D Atmospheric Solar Radiative Transfer Models: Interpretation and Handling of Unresolved Clouds. <i>Journal of Climate</i> , 2003 , 16, 2676-2699	4.4	109
247	Remote Sensing of Droplet Number Concentration in Warm Clouds: A Review of the Current State of Knowledge and Perspectives. <i>Reviews of Geophysics</i> , 2018 , 56, 409-453	23.1	105
246	Airborne instruments to measure atmospheric aerosol particles, clouds and radiation: A cook@ tour of mature and emerging technology. <i>Atmospheric Research</i> , 2011 , 102, 10-29	5.4	101
245	Mixed-Phase Clouds: Progress and Challenges. <i>Meteorological Monographs</i> , 2017 , 58, 5.1-5.50	5.7	100
244	ACRIDICON@HUVA Campaign: Studying Tropical Deep Convective Clouds and Precipitation over Amazonia Using the New German Research Aircraft HALO. <i>Bulletin of the American Meteorological Society</i> , 2016 , 97, 1885-1908	6.1	95
243	The Green Ocean Amazon Experiment (GoAmazon2014/5) Observes Pollution Affecting Gases, Aerosols, Clouds, and Rainfall over the Rain Forest. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 981-997	6.1	94
242	The Arctic Cloud Puzzle: Using ACLOUD/PASCAL Multiplatform Observations to Unravel the Role of Clouds and Aerosol Particles in Arctic Amplification. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 841-871	6.1	85
241	Observations of Small-Scale Turbulence and Energy Dissipation Rates in the Cloudy Boundary Layer. <i>Journals of the Atmospheric Sciences</i> , 2006 , 63, 1451-1466	2.1	83
240	EURECA: A Field Campaign to Elucidate the Couplings Between Clouds, Convection and Circulation. <i>Surveys in Geophysics</i> , 2017 , 38, 1529-1568	7.6	82
239	Cloud droplet nucleation scavenging in relation to the size and hygroscopic behaviour of aerosol particles. <i>Atmospheric Environment</i> , 1997 , 31, 2463-2475	5.3	80
238	Solar radiative effects of a Saharan dust plume observed during SAMUM assuming spheroidal model particles. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2009 , 61, 270-296	3.3	78
237	Probing Finescale Dynamics and Microphysics of Clouds with Helicopter-Borne Measurements. <i>Bulletin of the American Meteorological Society</i> , 2006 , 87, 1727-1738	6.1	78

236	Atmospheric radiative effects of an in situ measured Saharan dust plume and the role of large particles. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 4887-4903	6.8	78
235	ML-CIRRUS: The Airborne Experiment on Natural Cirrus and Contrail Cirrus with the High-Altitude Long-Range Research Aircraft HALO. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 271-288	6.1	77
234	The North Atlantic Waveguide and Downstream Impact Experiment. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 1607-1637	6.1	77
233	2013 ,		77
232	An Airborne Spectral Albedometer with Active Horizontal Stabilization. <i>Journal of Atmospheric and Oceanic Technology</i> , 2001 , 18, 1856-1866	2	76
231	In-situ observations of young contrails [b]verview and selected results from the CONCERT campaign. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9039-9056	6.8	75
230	Dust mobilization and transport in the northern Sahara during SAMUM 2006 [b] meteorological overview. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2009 , 61, 12-31	3.3	73
229	Hygroscopic properties and extinction of aerosol particles at ambient relative humidity in South-Eastern China. <i>Atmospheric Environment</i> , 2008 , 42, 6321-6334	5.3	70
228	Aerosol characteristics and particle production in the upper troposphere over the Amazon Basin. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 921-961	6.8	69
227	On the direct and semidirect effects of Saharan dust over Europe: A modeling study. <i>Journal of Geophysical Research</i> , 2007 , 112,		68
226	Possibility of refractive index determination of atmospheric aerosol particles by ground-based solar extinction and scattering measurements. <i>Atmospheric Environment</i> , 1994 , 28, 785-792	5.3	67
225	Laboratory Studies and Numerical Simulations of Cloud Droplet Formation under Realistic Supersaturation Conditions. <i>Journal of Atmospheric and Oceanic Technology</i> , 2004 , 21, 876-887	2	65
224	Optical closure for an aerosol column: Method, accuracy, and inferable properties applied to a biomass-burning aerosol and its radiative forcing. <i>Journal of Geophysical Research</i> , 2002 , 107, LAC 12-1-LAC 12-15		65
223	IPRT polarized radiative transfer model intercomparison project [Phase A]. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015 , 164, 8-36	2.1	64
222	Night-time formation and occurrence of new particles associated with orographic clouds. <i>Atmospheric Environment</i> , 1997 , 31, 2545-2559	5.3	63
221	Particle scattering, backscattering, and absorption coefficients: An in situ closure and sensitivity study. <i>Journal of Geophysical Research</i> , 2002 , 107, LAC 4-1-LAC 4-18		63
220	The great dun fell cloud experiment 1993: An overview. <i>Atmospheric Environment</i> , 1997 , 31, 2393-2405	5.3	60
219	Role of air-mass transformations in exchange between the Arctic and mid-latitudes. <i>Nature Geoscience</i> , 2018 , 11, 805-812	18.3	60

218	Spectral surface albedo over Morocco and its impact on radiative forcing of Saharan dust. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2009 , 61, 252-269	3.3	59
217	Size-dependent aerosol activation at the high-alpine site Jungfrauoch (3580 m asl)		59
216	Microphysical particle parameters from extinction and backscatter lidar data by inversion with regularization: experiment. <i>Applied Optics</i> , 2000 , 39, 1879-92	1.7	58
215	Dependence of solar radiative forcing of forest fire aerosol on ageing and state of mixture. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 881-891	6.8	57
214	STAAARTE-MED 1998 summer airborne measurements over the Aegean Sea 2. Aerosol scattering and absorption, and radiative calculations. <i>Journal of Geophysical Research</i> , 2002 , 107, AAC 2-1-AAC 2-14		56
213	Cloud phase identification of Arctic boundary-layer clouds from airborne spectral reflection measurements: test of three approaches. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 7493-7505	6.8	55
212	Aerosol optical properties and large-scale transport of air masses: Observations at a coastal and a semiarid site in the eastern Mediterranean during summer 1998. <i>Journal of Geophysical Research</i> , 2001 , 106, 9807-9826		53
211	Desert dust aerosol air mass mapping in the western Sahara, using particle properties derived from space-based multi-angle imaging. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2009 , 61, 239-251	3.3	52
210	Vertical variability of aerosol properties observed at a continental site during the Lindenberg Aerosol Characterization Experiment (LACE 98). <i>Journal of Geophysical Research</i> , 2002 , 107, LAC 10-1-LAC 10-18		52
209	Radiative and dynamic effects of absorbing aerosol particles over the Pearl River Delta, China. <i>Atmospheric Environment</i> , 2008 , 42, 6405-6416	5.3	51
208	Airborne measurements of areal spectral surface albedo over different sea and land surfaces. <i>Journal of Geophysical Research</i> , 2004 , 109,		50
207	Observations and modelling of the processing of aerosol by a hill cap cloud. <i>Atmospheric Environment</i> , 1997 , 31, 2527-2543	5.3	49
206	Effects of ice crystal habit on thermal infrared radiative properties and forcing of cirrus. <i>Journal of Geophysical Research</i> , 2007 , 112,		49
205	Performance of a Counterflow Virtual Impactor in the NASA Icing Research Tunnel. <i>Journal of Atmospheric and Oceanic Technology</i> , 2003 , 20, 781-790	2	49
204	New-particle formation events in a continental boundary layer: first results from the SATURN experiment. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 1445-1459	6.8	49
203	The fine-scale structure of the trade wind cumuli over Barbados – an introduction to the CARRIBA project. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 10061-10077	6.8	48
202	Particulate matter pollution in the megacities of the Pearl River Delta, China - a systematic literature review and health risk assessment. <i>International Journal of Hygiene and Environmental Health</i> , 2011 , 214, 281-95	6.9	48
201	Impact of cirrus crystal shape on solar spectral irradiance: A case study for subtropical cirrus. <i>Journal of Geophysical Research</i> , 2005 , 110,		48

200	The size-dependent chemical composition of cloud droplets. <i>Atmospheric Environment</i> , 1997 , 31, 2561-2576	5.76	44
199	Understanding Causes and Effects of Rapid Warming in the Arctic. <i>Eos</i> , 2017 ,	1.5	44
198	Aerosol layers from the 2008 eruptions of Mount Okmok and Mount Kasatochi: In situ upper troposphere and lower stratosphere measurements of sulfate and organics over Europe. <i>Journal of Geophysical Research</i> , 2010 , 115,		39
197	Droplet nucleation and growth in orographic clouds in relation to the aerosol population. <i>Atmospheric Research</i> , 1999 , 50, 289-315	5.4	37
196	Vertical Profiles of Aerosol and Radiation and the Influence of a Temperature Inversion: Measurements and Radiative Transfer Calculations. <i>Journal of Applied Meteorology and Climatology</i> , 1996 , 35, 1703-1715		37
195	Twomey effect observed from collocated microphysical and remote sensing measurements over shallow cumulus. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 1534-1545	4.4	36
194	Arctic low-level boundary layer clouds: in situ measurements and simulations of mono- and bimodal supercooled droplet size distributions at the top layer of liquid phase clouds. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 617-631	6.8	36
193	Further evidence for CCN aerosol concentrations determining the height of warm rain and ice initiation in convective clouds over the Amazon basin. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 14433-14458	6.8	35
192	Microphysical and radiative characterization of a subvisible midlevel Arctic ice cloud by airborne observations in a case study. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 2647-2661	6.8	35
191	Meteorology of the great dun fell cloud experiment 1993. <i>Atmospheric Environment</i> , 1997 , 31, 2407-2429	9.3	35
190	A High-Altitude Long-Range Aircraft Configured as a Cloud Observatory: The NARVAL Expeditions. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 1061-1077	6.1	34
189	The Cloud Particle Spectrometer with Polarization Detection (CSPD): A next generation open-path cloud probe for distinguishing liquid cloud droplets from ice crystals. <i>Atmospheric Research</i> , 2014 , 142, 2-14	5.4	34
188	In Situ, Airborne Instrumentation: Addressing and Solving Measurement Problems in Ice Clouds. <i>Bulletin of the American Meteorological Society</i> , 2012 , 93, ES29-ES34	6.1	34
187	Spectral actinic flux in the lower troposphere: measurement and 1-D simulations for cloudless, broken cloud and overcast situations. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 1975-1997	6.8	34
186	FSSP Characterization with Monodisperse Water Droplets. <i>Journal of Atmospheric and Oceanic Technology</i> , 1996 , 13, 1152-1165	2	34
185	Microphysical and optical properties of Arctic mixed-phase clouds. The 9 April 2007 case study.. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 6581-6595	6.8	33
184	Airborne measurements of spectral direct aerosol radiative forcing in the Intercontinental chemical Transport Experiment/Intercontinental Transport and Chemical Transformation of anthropogenic pollution, 2004. <i>Journal of Geophysical Research</i> , 2006 , 111,		32
183	THE BALTEX BRIDGE CAMPAIGN: An Integrated Approach for a Better Understanding of Clouds. <i>Bulletin of the American Meteorological Society</i> , 2004 , 85, 1565-1584	6.1	31

182	STAAARTE-MED 1998 summer airborne measurements over the Aegean Sea 1. Aerosol particles and trace gases. <i>Journal of Geophysical Research</i> , 2002 , 107, AAC 1-1-AAC 1-15		31
181	A New Tethered Balloon-Borne Payload for Fine-Scale Observations in the Cloudy Boundary Layer. <i>Boundary-Layer Meteorology</i> , 2003 , 106, 461-482	3.4	30
180	Variability of aerosol optical parameters by advective processes. <i>Atmospheric Environment</i> , 1994 , 28, 923-933	5.3	30
179	The Great Dun Fell Experiment 1995: an overview. <i>Atmospheric Research</i> , 1999 , 50, 151-184	5.4	29
178	Sensitivities of Amazonian clouds to aerosols and updraft speed. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 10037-10050	6.8	28
177	Influence of ice crystal shape on retrieval of cirrus optical thickness and effective radius: A case study. <i>Journal of Geophysical Research</i> , 2009 , 114,		26
176	Wind Tunnel Tests of the Airborne PVM-100A Response to Large Droplets. <i>Journal of Atmospheric and Oceanic Technology</i> , 2002 , 19, 1577-1584	2	26
175	Bursts of Aitken mode and ultrafine particles observed at the top of continental boundary layer clouds. <i>Journal of Aerosol Science</i> , 2001 , 32, 649-660	4.3	26
174	EUREC4A. <i>Earth System Science Data</i> , 2021 , 13, 4067-4119	10.5	26
173	A method to calculate Stokes parameters and angle of polarization of skylight from polarized CIMEL sun/sky radiometers. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014 , 149, 334-346	2.1	25
172	Thermodynamic phase retrieval of convective clouds: impact of sensor viewing geometry and vertical distribution of cloud properties. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 539-547	4	25
171	New airborne retrieval approach for trade wind cumulus properties under overlying cirrus. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 3634-3649	4.4	25
170	Microphysics of clouds: Model vs measurements. <i>Atmospheric Environment</i> , 1997 , 31, 2453-2462	5.3	25
169	Aircraft-based observations of isoprene-epoxydiol-derived secondary organic aerosol (IEPOX-SOA) in the tropical upper troposphere over the Amazon region. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 14979-15001	6.8	25
168	IPRT polarized radiative transfer model intercomparison project – Three-dimensional test cases (phase B). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 209, 19-44	2.1	24
167	Optical thickness and effective radius of Arctic boundary-layer clouds retrieved from airborne nadir and imaging spectrometry. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 1189-1200	4	24
166	Discrepancies between measured and modeled solar and UV radiation within polluted boundary layer clouds. <i>Journal of Geophysical Research</i> , 1999 , 104, 27373-27385		24
165	Classification of Arctic, midlatitude and tropical clouds in the mixed-phase temperature regime. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 12219-12238	6.8	23

164	The reduced nitrogen budget of an orographic cloud. <i>Atmospheric Environment</i> , 1997 , 31, 2599-2614	5.3	23
163	Meteorological conditions during the ALOUD/PASCAL field campaign near Svalbard in early summer 2017. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 17995-18022	6.8	23
162	On realistic size equivalence and shape of spheroidal Saharan mineral dust particles applied in solar and thermal radiative transfer calculations. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 4469-4490	6.8	22
161	Experimental determination of the connection between cloud droplet size and its dry residue size. <i>Atmospheric Environment</i> , 1997 , 31, 2477-2490	5.3	22
160	Measured profiles of aerosol particle absorption and its influence on clear-sky solar radiative forcing. <i>Journal of Geophysical Research</i> , 2001 , 106, 1237-1247		22
159	Turbulent Mixing in Shallow Trade Wind Cumuli: Dependence on Cloud Life Cycle. <i>Journals of the Atmospheric Sciences</i> , 2015 , 72, 1447-1465	2.1	21
158	Retrieval of aerosol optical thickness for desert conditions using MERIS observations during the SAMUM campaign. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2009 , 61, 229-238	3.3	21
157	Reproducing cloud microphysical and irradiance measurements using three 3D cloud generators. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007 , 133, 765-780	6.4	21
156	Overview: Precipitation characteristics and sensitivities to environmental conditions during GoAmazon2014/5 and ACRIDICON-CHUVA. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 6461-6482	6.8	21
155	Airborne spectral radiation measurements to derive solar radiative forcing of Saharan dust mixed with biomass burning smoke particles. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2011 , 63, 742-750	3.3	20
154	Evidence of ice crystals at cloud top of Arctic boundary-layer mixed-phase clouds derived from airborne remote sensing. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 9401-9416	6.8	20
153	Irradiance in polluted cumulus fields: Measured and modeled cloud-aerosol effects. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a	4.9	19
152	Airborne system for fast measurements of upwelling and downwelling spectral actinic flux densities. <i>Applied Optics</i> , 2005 , 44, 434-44	1.7	19
151	ARCTIC CHANGE AND POSSIBLE INFLUENCE ON MID-LATITUDE CLIMATE AND WEATHER: A US CLIVAR White Paper 2018 , n/a,		19
150	Regional modelling of Saharan dust and biomass-burning smoke. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2011 , 63, 800-813	3.3	18
149	Measurements of desert dust optical characteristics at Porte au Sahara during SAMUM. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2009 , 61, 206-215	3.3	18
148	A Quantitative Comparison of Ground-Based FSSP and PVM Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 1998 , 15, 887-900	2	18
147	A comprehensive in situ and remote sensing data set from the Arctic CLOUD Observations Using airborne measurements during polar Day (ALOUD) campaign. <i>Earth System Science Data</i> , 2019 , 11, 1853-1881	10.5	18

146	In situ detection of stratosphere-troposphere exchange of cirrus particles in the midlatitudes. <i>Geophysical Research Letters</i> , 2015 , 42, 949-955	4.9	17
145	Influence of clouds on the spectral actinic flux density in the lower troposphere (INSPECTRO): overview of the field campaigns. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 1789-1812	6.8	17
144	Aerosol-radiation interaction in the cloudless atmosphere during LACE 98 1. Measured and calculated broadband solar and spectral surface insulations. <i>Journal of Geophysical Research</i> , 2002 , 107, LAC 6-1-LAC 6-20		17
143	Measurement of Aircraft State and Thermodynamic and Dynamic Variables7-75		17
142	The new BELUGA setup for collocated turbulence and radiation measurements using a tethered balloon: first applications in the cloudy Arctic boundary layer. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 4019-4038	4	16
141	Influx of African biomass burning aerosol during the Amazonian dry season through layered transatlantic transport of black carbon-rich smoke. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 4757-4785	6.8	16
140	Ice crystal shape effects on solar radiative properties of Arctic mixed-phase cloudsDependence on microphysical properties. <i>Atmospheric Research</i> , 2008 , 88, 266-276	5.4	16
139	A CCD Spectroradiometer for Ultraviolet Actinic Radiation Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 2007 , 24, 449-462	2	16
138	Comparison of observed and simulated NO ₂ photodissociation frequencies in a cloudless atmosphere and in continental boundary layer clouds. <i>Journal of Geophysical Research</i> , 2000 , 105, 9843-9857		16
137	Additional global climate cooling by clouds due to ice crystal complexity. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 15767-15781	6.8	16
136	Thermal IR radiative properties of mixed mineral dust and biomass aerosol during SAMUM-2. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2011 , 63, 751-769	3.3	15
135	Source identification during the Great Dun Fell cloud experiment 1993. <i>Atmospheric Environment</i> , 1997 , 31, 2441-2451	5.3	15
134	Airborne measurements of ground and cloud spectral albedos under low aerosol loads. <i>Journal of Geophysical Research</i> , 2004 , 109,		15
133	Vertical distribution of spectral solar irradiance in the cloudless sky: A case study. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	15
132	Aircraft Particle Inlets: State-of-the-Art and Future Needs. <i>Bulletin of the American Meteorological Society</i> , 2004 , 85, 89-92	6.1	15
131	Overview of the MOSAiC expeditionAtmosphere. <i>Elementa</i> , 2022 , 10,	3.6	15
130	Minimizing Instrumental Broadening of the Drop Size Distribution with the M-Fast-FSSP. <i>Journal of Atmospheric and Oceanic Technology</i> , 2004 , 21, 1855-1867	2	15
129	A new multispectral cloud retrieval method for ship-based solar transmissivity measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 11,338-11,354	4.4	14

128	Comparing parameterized versus measured microphysical properties of tropical convective cloud bases during the ACRIDICON/HUVA campaign. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 7365-7386	6.8	14
127	Effect of measured surface albedo on modeled Saharan dust solar radiative forcing. <i>Journal of Geophysical Research</i> , 2010 , 115,		14
126	Constraining the Twomey effect from satellite observations: issues and perspectives. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 15079-15099	6.8	14
125	Comparison of different methods to retrieve optical-equivalent snow grain size in central Antarctica. <i>Cryosphere</i> , 2017 , 11, 2727-2741	5.5	14
124	Airborne observations and simulations of three-dimensional radiative interactions between Arctic boundary layer clouds and ice floes. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 8147-8163	6.8	13
123	Apparent absorption of solar spectral irradiance in heterogeneous ice clouds. <i>Journal of Geophysical Research</i> , 2010 , 115,		13
122	Airborne hyperspectral observations of surface and cloud directional reflectivity using a commercial digital camera. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 3493-3510	6.8	13
121	Lidar characterization of the Arctic atmosphere during ASTAR 2007: four cases studies of boundary layer, mixed-phase and multi-layer clouds. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 2847-2866	6.8	13
120	Overview of the MOSAiC expedition. <i>Elementa</i> , 2022 , 10,	3.6	13
119	African volcanic emissions influencing atmospheric aerosols over the Amazon rain forest. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 10391-10405	6.8	12
118	Influence of local surface albedo variability and ice crystal shape on passive remote sensing of thin cirrus. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1943-1958	6.8	12
117	In Situ Measurements of Cloud and Precipitation Particles 2013 , 225-301		12
116	Directional, horizontal inhomogeneities of cloud optical thickness fields retrieved from ground-based and airborne spectral imaging. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 2359-2372	6.8	12
115	Retrieval of cirrus optical thickness and assessment of ice crystal shape from ground-based imaging spectrometry. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 1855-1868	4	12
114	Collocated measurements of boundary layer cloud microphysical and radiative properties: A feasibility study. <i>Journal of Geophysical Research</i> , 2010 , 115,		12
113	Dependence of extinction cross-section on incident polarization state and particle orientation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011 , 112, 2035-2039	2.1	12
112	Evidence for inertial droplet clustering in weakly turbulent clouds. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007 , 59, 57-65	3.3	12
111	Supplement to Aircraft Particle Inlets: State-of-the-Art and Future Needs. <i>Bulletin of the American Meteorological Society</i> , 2004 , 85, 92-92	6.1	12

110	Reconstruction of high-resolution time series from slow-response broadband terrestrial irradiance measurements by deconvolution. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 3671-3684	4	12
109	A new airborne tandem platform for collocated measurements of microphysical cloud and radiation properties. <i>Atmospheric Measurement Techniques</i> , 2009 , 2, 147-158	4	11
108	A new method for deriving aerosol solar radiative forcing and its first application within MILAGRO/INTEX-B. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 7829-7843	6.8	11
107	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003 , 55, 796-807	3.3	11
106	SPARTA Solver for Polarized Atmospheric Radiative Transfer Applications: Introduction and application to Saharan dust fields. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016 , 178, 77-92	2.1	11
105	Vertical distribution of the particle phase in tropical deep convective clouds as derived from cloud-side reflected solar radiation measurements. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 9049-9066	6.8	10
104	Combined retrieval of Arctic liquid water cloud and surface snow properties using airborne spectral solar remote sensing. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 3215-3230	4	10
103	Influence of spatial heterogeneity of local surface albedo on the area-averaged surface albedo retrieved from airborne irradiance measurements. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 527-537	4.7	10
102	Measurement-based aerosol forcing calculations: The influence of model complexity. <i>Meteorologische Zeitschrift</i> , 2001 , 10, 45-60	3.1	10
101	Reassessment of shortwave surface cloud radiative forcing in the Arctic: consideration of surface-albedo-cloud interactions. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 9895-9914	6.8	10
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