

Martina KrÄmer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3778464/publications.pdf>

Version: 2024-02-01

134
papers

6,141
citations

87888

38
h-index

95266

68
g-index

252
all docs

252
docs citations

252
times ranked

3852
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Overview of Ice Nucleating Particles. Meteorological Monographs, 2017, 58, 1.1-1.33. | 5.0 | 451 |
| 2 | Efficiency of the deposition mode ice nucleation on mineral dust particles. Atmospheric Chemistry and Physics, 2006, 6, 3007-3021. | 4.9 | 328 |
| 3 | Ice supersaturations and cirrus cloud crystal numbers. Atmospheric Chemistry and Physics, 2009, 9, 3505-3522. | 4.9 | 317 |
| 4 | Effect of sulfuric acid coating on heterogeneous ice nucleation by soot aerosol particles. Journal of Geophysical Research, 2005, 110, . | 3.3 | 191 |
| 5 | Experimental investigation of homogeneous freezing of sulphuric acid particles in the aerosol chamber AIDA. Atmospheric Chemistry and Physics, 2003, 3, 211-223. | 4.9 | 178 |
| 6 | Some ice nucleation characteristics of Asian and Saharan desert dust. Atmospheric Chemistry and Physics, 2006, 6, 2991-3006. | 4.9 | 177 |
| 7 | Mixed-Phase Clouds: Progress and Challenges. Meteorological Monographs, 2017, 58, 5.1-5.50. | 5.0 | 165 |
| 8 | A microphysics guide to cirrus clouds – Part 1: Cirrus types. Atmospheric Chemistry and Physics, 2016, 16, 3463-3483. | 4.9 | 151 |
| 9 | Airborne instruments to measure atmospheric aerosol particles, clouds and radiation: A cook's tour of mature and emerging technology. Atmospheric Research, 2011, 102, 10-29. | 4.1 | 139 |
| 10 | ACRIDICON – CHUVA Campaign: Studying Tropical Deep Convective Clouds and Precipitation over Amazonia Using the New German Research Aircraft HALO. Bulletin of the American Meteorological Society, 2016, 97, 1885-1908. | 3.3 | 124 |
| 11 | ML-CIRRUS: The Airborne Experiment on Natural Cirrus and Contrail Cirrus with the High-Altitude Long-Range Research Aircraft HALO. Bulletin of the American Meteorological Society, 2017, 98, 271-288. | 3.3 | 107 |
| 12 | Aerosol characteristics and particle production in the upper troposphere over the Amazon Basin. Atmospheric Chemistry and Physics, 2018, 18, 921-961. | 4.9 | 105 |
| 13 | Ice water content of Arctic, midlatitude, and tropical cirrus. Journal of Geophysical Research, 2008, 113, . | 3.3 | 102 |
| 14 | Cloud Ice Properties: In Situ Measurement Challenges. Meteorological Monographs, 2017, 58, 9.1-9.23. | 5.0 | 102 |
| 15 | Fast transport from Southeast Asia boundary layer sources to northern Europe: rapid uplift in typhoons and eastward eddy shedding of the Asian monsoon anticyclone. Atmospheric Chemistry and Physics, 2014, 14, 12745-12762. | 4.9 | 97 |
| 16 | Ice nucleation on flame soot aerosol of different organic carbon content. Meteorologische Zeitschrift, 2005, 14, 477-484. | 1.0 | 94 |
| 17 | Cirrus Clouds. Meteorological Monographs, 2017, 58, 2.1-2.26. | 5.0 | 94 |
| 18 | In-situ observations of young contrails – overview and selected results from the CONCERT campaign. Atmospheric Chemistry and Physics, 2010, 10, 9039-9056. | 4.9 | 93 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | The AquaVIT-1 intercomparison of atmospheric water vapor measurement techniques. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3177-3213. | 3.1 | 88 |
| 20 | Two-moment bulk stratiform cloud microphysics in the GFDL AM3 GCM: description, evaluation, and sensitivity tests. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8037-8064. | 4.9 | 87 |
| 21 | Inelastic photoproduction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 348, 657-664. | 4.1 | 84 |
| 22 | The origin of midlatitude ice clouds and the resulting influence on their microphysical properties. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5793-5809. | 4.9 | 80 |
| 23 | A microphysics guide to cirrus – Part 2: Climatologies of clouds and humidity from observations. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12569-12608. | 4.9 | 80 |
| 24 | Clouds and aerosols in Puerto Rico – a new evaluation. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 1293-1309. | 4.9 | 72 |
| 25 | Control of solute concentrations in cloud and fog water by liquid water content. <i>Atmospheric Environment</i> , 2000, 34, 1109-1122. | 4.1 | 71 |
| 26 | Extinction and optical depth of contrails. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a. | 4.0 | 70 |
| 27 | Tropical tropopause ice clouds: a dynamic approach to the mystery of low crystal numbers. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9801-9818. | 4.9 | 68 |
| 28 | Ice crystal number concentration estimates from lidar – radar satellite remote sensing – Part 1: Method and evaluation. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14327-14350. | 4.9 | 61 |
| 29 | In situ measurements of tropical cloud properties in the West African Monsoon: upper tropospheric ice clouds, Mesoscale Convective System outflow, and subvisual cirrus. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5569-5590. | 4.9 | 59 |
| 30 | Long-range transport pathways of tropospheric source gases originating in Asia into the northern lower stratosphere during the Asian monsoon season 2012. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 15301-15325. | 4.9 | 57 |
| 31 | Microphysical properties of synoptic-scale polar stratospheric clouds: in situ measurements of unexpectedly large HNO ₃ -containing particles in the Arctic vortex. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10785-10801. | 4.9 | 56 |
| 32 | Two decades of water vapor measurements with the FISH fluorescence hygrometer: a review. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8521-8538. | 4.9 | 55 |
| 33 | Nitric acid in cirrus clouds. <i>Geophysical Research Letters</i> , 2006, 33, . | 4.0 | 54 |
| 34 | A Review of Ice Particle Shapes in Cirrus formed In Situ and in Anvils. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 10049-10090. | 3.3 | 54 |
| 35 | Safety criteria for the trafficability of inundated roads in urban floodings. <i>International Journal of Disaster Risk Reduction</i> , 2016, 17, 77-84. | 3.9 | 52 |
| 36 | The FLASH instrument for water vapor measurements on board the high-altitude airplane. <i>Instruments and Experimental Techniques</i> , 2007, 50, 113-121. | 0.5 | 50 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Numerical simulations of homogeneous freezing processes in the aerosol chamber AIDA. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 195-210. | 4.9 | 48 |
| 38 | Experimental investigation of ice nucleation by different types of aerosols in the aerosol chamber AIDA: implications to microphysics of cirrus clouds. <i>Meteorologische Zeitschrift</i> , 2005, 14, 485-497. | 1.0 | 47 |
| 39 | Evaluation of UT/LS hygrometer accuracy by intercomparison during the NASA MACPEX mission. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1915-1935. | 3.3 | 47 |
| 40 | Classification of Arctic, midlatitude and tropical clouds in the mixed-phase temperature regime. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12219-12238. | 4.9 | 45 |
| 41 | Sampling characteristics of inlets operated at low U/U0 ratios: new insights from computational fluid dynamics (CFX) modeling. <i>Journal of Aerosol Science</i> , 2004, 35, 683-694. | 3.8 | 42 |
| 42 | In-situ observations and modeling of small nitric acid-containing ice crystals. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 3373-3383. | 4.9 | 41 |
| 43 | Arctic stratospheric dehydration – Part 1: Unprecedented observation of vertical redistribution of water. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 11503-11517. | 4.9 | 41 |
| 44 | The water-soluble fraction of atmospheric aerosol particles and its influence on cloud microphysics. <i>Journal of Geophysical Research</i> , 1996, 101, 29499-29510. | 3.3 | 40 |
| 45 | The Cloud Particle Spectrometer with Polarization Detection (CPSPD): A next generation open-path cloud probe for distinguishing liquid cloud droplets from ice crystals. <i>Atmospheric Research</i> , 2014, 142, 2-14. | 4.1 | 40 |
| 46 | Climatological and radiative properties of midlatitude cirrus clouds derived by automatic evaluation of lidar measurements. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7605-7621. | 4.9 | 40 |
| 47 | Thin and subvisible cirrus and contrails in a subsaturated environment. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5853-5865. | 4.9 | 39 |
| 48 | Thermodynamic correction of particle concentrations measured by underwing probes on fast-flying aircraft. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 5135-5162. | 3.1 | 39 |
| 49 | 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. | 4.9 | 39 |
| 50 | In Situ, Airborne Instrumentation: Addressing and Solving Measurement Problems in Ice Clouds. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, ES29-ES34. | 3.3 | 38 |
| 51 | Ice water content of Arctic, midlatitude, and tropical cirrus – Part 2: Extension of the database and new statistical analysis. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 6447-6459. | 4.9 | 38 |
| 52 | Impact of the Asian monsoon on the extratropical lower stratosphere: trace gas observations during TACTS over Europe 2012. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10573-10589. | 4.9 | 34 |
| 53 | Ice crystal number concentration estimates from lidar – radar satellite remote sensing – Part 2: Controls on the ice crystal number concentration. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14351-14370. | 4.9 | 34 |
| 54 | Evidence for heterogeneous chlorine activation in the tropical UTLS. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 241-256. | 4.9 | 33 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 55 | Supersaturations, microphysics and nitric acid partitioning in a cold cirrus cloud observed during CR-AVE 2006: an observation–modelling intercomparison study. <i>Environmental Research Letters</i> , 2008, 3, 035003. | 5.2 | 32 |
| 56 | The need for accurate long-term measurements of water vapor in the upper troposphere and lower stratosphere with global coverage. <i>Earth's Future</i> , 2016, 4, 25-32. | 6.3 | 32 |
| 57 | Level 2 processing for the imaging Fourier transform spectrometer GLORIA: derivation and validation of temperature and trace gas volume mixing ratios from calibrated dynamics mode spectra. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 2473-2489. | 3.1 | 30 |
| 58 | Lidar observation and model simulation of a volcanic-ash-induced cirrus cloud during the Eyjafjallajökull eruption. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10281-10294. | 4.9 | 29 |
| 59 | Quasi-Spherical Ice in Convective Clouds. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 3885-3910. | 1.7 | 28 |
| 60 | HAI, a new airborne, absolute, twin dual-channel, multi-phase TDLAS-hygrometer: background, design, setup, and first flight data. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 35-57. | 3.1 | 26 |
| 61 | Dependence of the Ice Water Content and Snowfall Rate on Temperature, Globally: Comparison of in Situ Observations, Satellite Active Remote Sensing Retrievals, and Global Climate Model Simulations. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 189-215. | 1.5 | 25 |
| 62 | Intercomparison of midlatitude tropospheric and lower-stratospheric water vapor measurements and comparison to ECMWF humidity data. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16729-16745. | 4.9 | 25 |
| 63 | Mechanism of ozone loss under enhanced water vapour conditions in the mid-latitude lower stratosphere in summer. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 5805-5833. | 4.9 | 24 |
| 64 | Airborne limb-imaging measurements of temperature, HNO ₃ , O ₃ , ClONO ₂ , H ₂ O and CFC-12 during the Arctic winter 2015/2016: characterization, in situ validation and comparison to Aura/MLS. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 4737-4756. | 3.1 | 23 |
| 65 | Evaluation of a Photoacoustic Detector for Water Vapor Measurements under Simulated Tropospheric/Lower Stratospheric Conditions. <i>Environmental Science & Technology</i> , 2001, 35, 4881-4885. | 10.0 | 22 |
| 66 | Water vapor increase in the lower stratosphere of the Northern Hemisphere due to the Asian monsoon anticyclone observed during the TACTS/ESMVal campaigns. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2973-2983. | 4.9 | 22 |
| 67 | A climatological view of HNO ₃ partitioning in cirrus clouds. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008, 134, 905-912. | 2.7 | 21 |
| 68 | Ice particle sampling from aircraft – influence of the probing position on the ice water content. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 4015-4031. | 3.1 | 21 |
| 69 | Assessment of Observational Evidence for Direct Convective Hydration of the Lower Stratosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032793. | 3.3 | 21 |
| 70 | Quality assessment of MOZAIC and IAGOS capacitive hygrometers: insights from airborne field studies. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 67, 28320. | 1.6 | 21 |
| 71 | A method to determine rainwater solutes from pH and conductivity measurements. <i>Atmospheric Environment</i> , 1996, 30, 3291-3300. | 4.1 | 19 |
| 72 | The impact of mineral dust on cloud formation during the Saharan dust event in April 2014 over Europe. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17545-17572. | 4.9 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Coupling aerosols to (cirrus) clouds in the global EMAC-MADE3 aerosol-climate model. <i>Geoscientific Model Development</i> , 2020, 13, 1635-1661. | 3.6 | 19 |
| 74 | Ice-supersaturated air masses in the northern mid-latitudes from regular in situ observations by passenger aircraft: vertical distribution, seasonality and tropospheric fingerprint. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8157-8179. | 4.9 | 19 |
| 75 | Intercomparison of Stratospheric Chemistry Models under Polar Vortex Conditions. <i>Journal of Atmospheric Chemistry</i> , 2003, 45, 51-77. | 3.2 | 18 |
| 76 | Aircraft Particle Inlets: State-of-the-Art and Future Needs. <i>Bulletin of the American Meteorological Society</i> , 2004, 85, 89-92. | 3.3 | 18 |
| 77 | Tropopause and hygropause variability over the equatorial Indian Ocean during February and March 1999. <i>Journal of Geophysical Research</i> , 2006, 111, . | 3.3 | 18 |
| 78 | Airborne measurements of the nitric acid partitioning in persistent contrails. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8189-8197. | 4.9 | 18 |
| 79 | Evaluation of the MOZAIC Capacitive Hygrometer during the airborne field study CIRRUS-III. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1233-1243. | 3.1 | 18 |
| 80 | Aircraft-based observation of meteoric material in lower-stratospheric aerosol particles between 15 and 68°N. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 989-1013. | 4.9 | 18 |
| 81 | Rainwater composition over a rural area with special emphasis on the size distribution of insoluble particulate matter. <i>Journal of Atmospheric Chemistry</i> , 1987, 5, 173-184. | 3.2 | 17 |
| 82 | Cloud processing of continental aerosol particles: Experimental investigations for different drop sizes. <i>Journal of Geophysical Research</i> , 2000, 105, 11739-11752. | 3.3 | 17 |
| 83 | Convective hydration in the tropical tropopause layer during the StratoClim aircraft campaign: pathway of an observed hydration patch. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11803-11820. | 4.9 | 17 |
| 84 | Measurements of atmospheric condensation nuclei size distributions in Siberia. <i>Journal of Aerosol Science</i> , 1992, 23, 191-199. | 3.8 | 16 |
| 85 | A methodology for in-situ and remote sensing of microphysical and radiative properties of contrails as they evolve into cirrus. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8157-8175. | 4.9 | 16 |
| 86 | Upper tropospheric water vapour and its interaction with cirrus clouds as seen from IAGOS long-term routine in situ observations. <i>Faraday Discussions</i> , 2017, 200, 229-249. | 3.2 | 16 |
| 87 | High Depolarization Ratios of Naturally Occurring Cirrus Clouds Near Air Traffic Regions Over Europe. <i>Geophysical Research Letters</i> , 2018, 45, 13,166. | 4.0 | 16 |
| 88 | High homogeneous freezing onsets of sulfuric acid aerosol at cirrus temperatures. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 14403-14425. | 4.9 | 16 |
| 89 | Persistence of moist plumes from overshooting convection in the Asian monsoon anticyclone. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3169-3189. | 4.9 | 16 |
| 90 | Technical Note: Reanalysis of upper troposphere humidity data from the MOZAIC programme for the period 1994 to 2009. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13241-13255. | 4.9 | 15 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | On the collection efficiency of a rotating ARM collector and its applicability to cloud- and fogwater sampling. <i>Journal of Aerosol Science</i> , 1994, 25, 137-148. | 3.8 | 14 |
| 92 | Nitric acid partitioning in cirrus clouds: the role of aerosol particles and relative humidity. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2006, 58, 141-147. | 1.6 | 14 |
| 93 | Transport of Antarctic stratospheric strongly dehydrated air into the troposphere observed during the HALO-ESMVal campaign 2012. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 9143-9158. | 4.9 | 14 |
| 94 | 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. | 4.9 | 14 |
| 95 | Arctic ice clouds over northern Sweden: microphysical properties studied with the Balloon-borne Ice Cloud particle Imager B-ICI. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17371-17386. | 4.9 | 14 |
| 96 | MAID: a model to simulate UT/LS aerosols and ice clouds. <i>Environmental Research Letters</i> , 2008, 3, 035001. | 5.2 | 13 |
| 97 | Dual-channel photoacoustic hygrometer for airborne measurements: background, calibration, laboratory and in-flight intercomparison tests. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 33-42. | 3.1 | 13 |
| 98 | Supplement to Aircraft Particle Inlets: State-of-the-Art and Future Needs. <i>Bulletin of the American Meteorological Society</i> , 2004, 85, 92-92. | 3.3 | 12 |
| 99 | Spectroscopic evidence of large aspherical NH_4NO_3 -NAT particles involved in denitrification in the December 2011 Arctic stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9505-9532. | 4.9 | 12 |
| 100 | Implementation of a comprehensive ice crystal formation parameterization for cirrus and mixed-phase clouds in the EMAC model (based on MESSy 2.53). <i>Geoscientific Model Development</i> , 2018, 11, 4021-4041. | 3.6 | 12 |
| 101 | Comparison of aircraft measurements during GoAmazon2014/5 and ACRIDICON-CHUVA. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 661-684. | 3.1 | 12 |
| 102 | Sensitivity of radiative properties of persistent contrails to the ice water path. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7893-7901. | 4.9 | 11 |
| 103 | Validation of first chemistry mode retrieval results from the new limb-imaging FTS GLORIA with correlative MIPAS-STR observations. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 2509-2520. | 3.1 | 11 |
| 104 | New investigations on homogeneous ice nucleation: the effects of water activity and water saturation formulations. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 65-91. | 4.9 | 10 |
| 105 | Meridional gradients of light absorbing carbon over northern Europe. <i>Environmental Research Letters</i> , 2008, 3, 025010. | 5.2 | 9 |
| 106 | Impact of Convectively Detained Ice Crystals on the Humidity of the Tropical Tropopause Layer in Boreal Winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032894. | 3.3 | 9 |
| 107 | Reply to discussion on "Control of solute concentrations in cloud and fog water by liquid water content". <i>Atmospheric Environment</i> , 2002, 36, 1909-1910. | 4.1 | 8 |
| 108 | Illustration of microphysical processes in Amazonian deep convective clouds in the gamma phase space: introduction and potential applications. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 14727-14746. | 4.9 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Long-lived contrails and convective cirrus above the tropical tropopause. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 2311-2346. | 4.9 | 8 |
| 110 | Evaluation of the IAGOS-Core GHG package H ₂ and O ₂ measurements during the DENCHAR airborne inter-comparison campaign in 2011. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5279-5297. | 3.1 | 8 |
| 111 | The Asian tropopause aerosol layer within the 2017 monsoon anticyclone: microphysical properties derived from aircraft-borne in situ measurements. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 15259-15282. | 4.9 | 7 |
| 112 | A contribution of primary biological aerosol particles as insoluble component to the atmospheric aerosol over the south atlantic ocean. <i>Journal of Aerosol Science</i> , 1997, 28, S3-S4. | 3.8 | 6 |
| 113 | A case study on the impact of severe convective storms on the water vapor mixing ratio in the lower mid-latitude stratosphere observed in 2019 over Europe. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 1059-1079. | 4.9 | 6 |
| 114 | On the Dependence of Cirrus Parametrizations on the Cloud Origin. <i>Geophysical Research Letters</i> , 2019, 46, 12565-12571. | 4.0 | 5 |
| 115 | Observation of cirrus clouds with GLORIA during the WISE campaign: detection methods and cirrus characterization. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 3153-3168. | 3.1 | 5 |
| 116 | In situ observation of new particle formation (NPF) in the tropical tropopause layer of the 2017 Asian monsoon anticyclone – Part 2: NPF inside ice clouds. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13455-13481. | 4.9 | 5 |
| 117 | In Situ Measurements of Cirrus Clouds on a Global Scale. <i>Atmosphere</i> , 2021, 12, 41. | 2.3 | 4 |
| 118 | A new method for measurements of insoluble submicron particles in water. <i>Journal of Aerosol Science</i> , 1991, 22, S329-S330. | 3.8 | 3 |
| 119 | Number size distribution of insoluble atmospheric aerosol particles in fog/cloud-water. <i>Journal of Aerosol Science</i> , 1991, 22, S525-S528. | 3.8 | 3 |
| 120 | Simple Versus Complex Physical Representation of the Radiative Forcing From Linear Contrails: A Sensitivity Analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2831-2840. | 3.3 | 3 |
| 121 | Cirrus cloud shape detection by tomographic extinction retrievals from infrared limb emission sounder measurements. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 7025-7045. | 3.1 | 3 |
| 122 | Collection efficiency of the Mainz-rotating-arm-collector. <i>Journal of Aerosol Science</i> , 1990, 21, S653-S656. | 3.8 | 2 |
| 123 | Field studies on the cloud processing of atmospheric aerosol particles and trace gases. <i>Journal of Aerosol Science</i> , 1995, 26, S893-S894. | 3.8 | 2 |
| 124 | On the Statistical Distribution of Total Water in Cirrus Clouds. <i>Geophysical Research Letters</i> , 2018, 45, 9963-9971. | 4.0 | 2 |
| 125 | A new method to measure the size distribution of insoluble submicron particles in water. <i>Journal of Aerosol Science</i> , 1994, 25, 345-354. | 3.8 | 1 |
| 126 | The solubility of atmospheric aerosol particles and its impact on cloud microphysics. <i>Journal of Aerosol Science</i> , 1996, 27, S81-S82. | 3.8 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 127 | Growing of aerosol particles by cloud processing: Experimental investigations for different drop size classes. <i>Journal of Aerosol Science</i> , 1997, 28, S571-S572. | 3.8 | 1 |
| 128 | The water-soluble fraction of marine aerosol particles measured on the Island of Helgoland, North Sea. <i>Journal of Aerosol Science</i> , 1997, 28, S229-S230. | 3.8 | 0 |
| 129 | The influence of the biological and the water-soluble fraction of aerosol particles on cloud microphysics: numerical case study for a marine situation. <i>Journal of Aerosol Science</i> , 1998, 29, S795-S796. | 3.8 | 0 |
| 130 | Ion composition of cloud processed continental aerosol particles. <i>Journal of Aerosol Science</i> , 2000, 31, 64-65. | 3.8 | 0 |
| 131 | THE DISTRIBUTION OF RELATIVE HUMIDITY IN CIRRUS CLOUDS AND ITS IMPACT ON THE NITRIC ACID CONTENT OF INTERSTITIAL AEROSOL PARTICLES. <i>Journal of Aerosol Science</i> , 2004, 35, S861-S862. | 3.8 | 0 |
| 132 | New particle formation in, around and out of ice clouds in MACPEX. , 2013, , . | | 0 |
| 133 | LABORATORY AND MODEL STUDIES ON THE INFLUENCE OF BIOLOGICAL AEROSOL PARTICLES ON DROP FREEZING. <i>Journal of Aerosol Science</i> , 2001, 32, 927-928. | 3.8 | 0 |
| 134 | Particle Distribution, Composition, and Processing during Cloud, Fog, and Rain Cycles. , 0, , 261-284. | | 0 |