Kerstin Stebel

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Arctic smoke – record high air pollution levels in the European Arctic due to agricultural fires in Eastern Europe in spring 2006. Atmospheric Chemistry and Physics, 2007, 7, 511-534.	1.9	372
2	Determination of time- and height-resolved volcanic ash emissions and their use for quantitative ash dispersion modeling: the 2010 Eyjafjallajökull eruption. Atmospheric Chemistry and Physics, 2011, 11, 4333-4351.	1.9	333
3	Pan-Arctic enhancements of light absorbing aerosol concentrations due to North American boreal forest fires during summer 2004. Journal of Geophysical Research, 2006, 111, .	3.3	205
4	Estimation of the vertical profile of sulfur dioxide injection into the atmosphere by a volcanic eruption using satellite column measurements and inverse transport modeling. Atmospheric Chemistry and Physics, 2008, 8, 3881-3897.	1.9	175
5	Aerosols in polar regions: A historical overview based on optical depth and in situ observations. Journal of Geophysical Research, 2007, 112, .	3.3	173
6	Development, Production and Evaluation of Aerosol Climate Data Records from European Satellite Observations (Aerosol_cci). Remote Sensing, 2016, 8, 421.	1.8	131
7	Aerosol remote sensing in polar regions. Earth-Science Reviews, 2015, 140, 108-157.	4.0	106
8	Four-dimensional distribution of the 2010 Eyjafjallajökull volcanic cloud over Europe observed by EARLINET. Atmospheric Chemistry and Physics, 2013, 13, 4429-4450.	1.9	95
9	The influence of cruise ship emissions on air pollution in Svalbard – a harbinger of a more polluted Arctic?. Atmospheric Chemistry and Physics, 2013, 13, 8401-8409.	1.9	94
10	Remote sensing and inverse transport modeling of the Kasatochi eruption sulfur dioxide cloud. Journal of Geophysical Research, 2010, 115, .	3.3	93
11	Ground-based assessment of the bias and long-term stability of 14 limb and occultation ozone profile data records. Atmospheric Measurement Techniques, 2016, 9, 2497-2534.	1.2	92
12	An intercomparison campaign of ground-based UV-visible measurements of NO2, BrO, and OClO slant columns: Methods of analysis and results for NO2. Journal of Geophysical Research, 2005, 110, .	3.3	73
13	Influence of planetary waves on noctilucent cloud occurrence over NW Europe. Journal of Geophysical Research, 2003, 108, .	3.3	61
14	A review and framework for the evaluation of pixel-level uncertainty estimates in satellite aerosol remote sensing. Atmospheric Measurement Techniques, 2020, 13, 373-404.	1.2	59
15	Bias determination and precision validation of ozone profiles from MIPAS-Envisat retrieved with the IMK-IAA processor. Atmospheric Chemistry and Physics, 2007, 7, 3639-3662.	1.9	49
16	Episodes of cross-polar transport in the Arctic troposphere during July 2008 as seen from models, satellite, and aircraft observations. Atmospheric Chemistry and Physics, 2011, 11, 3631-3651.	1.9	47
17	Open fires in Greenland in summer 2017: transport, deposition and radiative effects of BC, OC and BrC emissions. Atmospheric Chemistry and Physics, 2019, 19, 1393-1411.	1.9	46
18	Noctilucent clouds, PMSE and 5-day planetary waves: A case study. Geophysical Research Letters, 2002, 29, 50-1-50-4.	1.5	44

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19	Overview of sun photometer measurements of aerosol properties in Scandinavia and Svalbard. Atmospheric Environment, 2012, 52, 18-28.	1.9	42
20	Intercomparison of SO 2 camera systems for imaging volcanic gas plumes. Journal of Volcanology and Geothermal Research, 2015, 300, 22-36.	0.8	42
21	Regional aerosol optical properties and radiative impact of the extreme smoke event in the European Arctic in spring 2006. Atmospheric Chemistry and Physics, 2007, 7, 5899-5915.	1.9	40
22	Modification of Local Urban Aerosol Properties by Long-Range Transport of Biomass Burning Aerosol. Remote Sensing, 2018, 10, 412.	1.8	37
23	Geophysical validation of SCIAMACHY Limb Ozone Profiles. Atmospheric Chemistry and Physics, 2006, 6, 197-209.	1.9	34
24	Why unprecedented ozone loss in the Arctic in 2011? Is it related to climate change?. Atmospheric Chemistry and Physics, 2013, 13, 5299-5308.	1.9	34
25	A case study of gravity waves in noctilucent clouds. Annales Geophysicae, 2004, 22, 1875-1884.	0.6	32
26	Remote sensing of aerosols in the Arctic for an evaluation of global climate model simulations. Journal of Geophysical Research D: Atmospheres, 2014, 119, 8169-8188.	1.2	31
27	Joint radar/lidar observations of possible aerosol layers in the winter mesosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2004, 66, 957-970.	0.6	27
28	GOMOS ozone profile validation using ground-based and balloon sonde measurements. Atmospheric Chemistry and Physics, 2010, 10, 10473-10488.	1.9	27
29	Aerosol properties of the Eyjafjallajökull ash derived from sun photometer and satellite observations over the Iberian Peninsula. Atmospheric Environment, 2012, 48, 22-32.	1.9	26
30	The 1997 PMSE season - Its relation to wind, temperature and water vapour. Geophysical Research Letters, 1998, 25, 1867-1870.	1.5	24
31	Evaluation of sun photometer capabilities for retrievals of aerosol optical depth at high latitudes: The POLAR-AOD intercomparison campaigns. Atmospheric Environment, 2012, 52, 4-17.	1.9	24
32	Atmospheric monitoring at the Norwegian Antarctic station Troll: measurement programme and first results. Polar Research, 2009, 28, 353-363.	1.6	23
33	Aerosol characterization at the subâ€Arctic site Andenes (69°N, 16°E), by the analysis of columnar optical properties. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 471-482.	1.0	21
34	Improved optical flow velocity analysis in SO ₂ camera images of volcanic plumes – implications for emission-rate retrievals investigated at Mt Etna, Italy and Guallatiri, Chile. Atmospheric Measurement Techniques, 2018, 11, 781-801.	1.2	21
35	Stratospheric aerosol data records for the climate change initiative: Development, validation and application to chemistry-climate modelling. Remote Sensing of Environment, 2017, 203, 296-321.	4.6	20
36	Retrieval of atmospheric static stability from MST radar return signal power. Annales Geophysicae, 2004, 22, 3781-3788.	0.6	19

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37	Quality assurance of solar UV irradiance in the Arctic. Photochemical and Photobiological Sciences, 2010, 9, 384.	1.6	19
38	Polar mesosphere summer echoes and noctilucent clouds: Simultaneous and common-volume observations by radar, lidar and CCD camera. Geophysical Research Letters, 2000, 27, 661-664.	1.5	18
39	Simultaneous lidar observations of a polar stratospheric cloud on the east and west sides of the Scandinavian mountains and microphysical box model simulations. Annales Geophysicae, 2006, 24, 3267-3277.	0.6	18
40	Gome ozone profiles retrieved by neural network techniques: A global validation with lidar measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 107, 105-119.	1.1	17
41	Pyplis–A Python Software Toolbox for the Analysis of SO2 Camera Images for Emission Rate Retrievals from Point Sources. Geosciences (Switzerland), 2017, 7, 134.	1.0	16
42	First estimates of fumarolic SO 2 fluxes from Putana volcano, Chile, using an ultraviolet imaging camera. Journal of Volcanology and Geothermal Research, 2015, 300, 112-120.	0.8	14
43	Spatiotemporal Patterns in Data Availability of the Sentinel-5P NO2 Product over Urban Areas in Norway. Remote Sensing, 2021, 13, 2095.	1.8	14
44	Measurement of three dimensional volcanic plume properties using multiple ground based infrared cameras. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 154, 163-175.	4.9	12
45	Investigations of the possible relationship between PMSE and tides using a VHF MST radar. Geophysical Research Letters, 1998, 25, 3297-3300.	1.5	11
46	Mountain wave motions determined by the Esrange MST radar. Annales Geophysicae, 1999, 17, 957-970.	0.6	11
47	Comparison of dust-layer heights from active and passive satellite sensors. Atmospheric Measurement Techniques, 2018, 11, 2911-2936.	1.2	11
48	EARLINET correlative measurements for CALIPSO. , 2007, , .		9
49	EARLINET observations of the Eyjafjallaj $ ilde{A}f ilde{A}f ilde{A}$, \hat{A} ¶kull ash plume over Europe. , 2010, , .		9
50	Ground-based assessment of the bias and long-term stability of fourteen limb and occultation ozone profile data records. , 2016, 9, 2497-2534.		9
51	What caused a record high PM ₁₀ episode in northern Europe in October 2020?. Atmospheric Chemistry and Physics, 2022, 22, 3789-3810.	1.9	8
52	Application of wavelet transformation to determine wavelengths and phase velocities of gravity waves observed by lidar measurements. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 2249-2256.	0.6	7
53	Observation of turbulent dispersion of artificially released SO ₂ puffs with UV cameras. Atmospheric Measurement Techniques, 2018, 11, 6169-6188.	1.2	7
54	Measurements of UV radiation on rotating vertical plane at the ALOMAR Observatory (69° N, 16° E), Norway, June 2007. Atmospheric Chemistry and Physics, 2008, 8, 3033-3043.	1.9	6

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55	SAMIRA-SAtellite Based Monitoring Initiative for Regional Air Quality. Remote Sensing, 2021, 13, 2219.	1.8	6
56	Satellite validation strategy assessments based on the AROMAT campaigns. Atmospheric Measurement Techniques, 2020, 13, 5513-5535.	1.2	6
57	Aerosol optical properties in Northern Norway and Svalbard. Applied Optics, 2016, 55, 660.	2.1	5
58	Remote sensing of aerosols in the Arctic for an evaluation of global climate model simulations. Journal of Geophysical Research D: Atmospheres, 2014, 119, 8169-8188.	1.2	5
59	Impact of 3D cloud structures on the atmospheric trace gas products from UV–Vis sounders – Part 1: Synthetic dataset for validation of trace gas retrieval algorithms. Atmospheric Measurement Techniques, 2022, 15, 1587-1608.	1.2	5
60	Ozone mini-hole observation over the Balkan Peninsula in March 2005. Advances in Space Research, 2009, 43, 195-200.	1.2	4
61	Impact of 3D cloud structures on the atmospheric trace gas products from UV–Vis sounders – Part 3: Bias estimate using synthetic and observational data. Atmospheric Measurement Techniques, 2022, 15, 3481-3495.	1.2	4
62	SEVIRI Aerosol Optical Depth Validation Using AERONET and Intercomparison with MODIS in Central and Eastern Europe. Remote Sensing, 2021, 13, 844.	1.8	3
63	Earth observations and volcanic ash. A report from the ESA/Eumetsat Dublin workshop, 4-7 March 2013, April 2014. , 2014, , .		3
64	The evolution of polar stratospheric clouds above spitsbergen. Journal of Aerosol Science, 1997, 28, S423-S424.	1.8	2
65	Study of the seasonal ozone variations at European high latitudes. Advances in Space Research, 2011, 47, 740-747.	1.2	2
66	Validation of new satellite aerosol optical depth retrieval algorithm using Raman lidar observations at radiative transfer laboratory in Warsaw. EPJ Web of Conferences, 2018, 176, 04008.	0.1	2
67	A novel, high resolution temperature sensor for balloon applications. Advances in Space Research, 2002, 30, 1365-1369.	1.2	0
68	Observation and characterization of aerosols above ALOMAR (69 degrees N) by tropospheric lidar, sun-photometer, and VHF radar. , 2006, , .		0
69	Summer lidar measurements in the troposphere over ALOMAR, Norway in 2007. , 2008, , .		0
70	Characterization of Subâ€Arctic Aerosols at ALOMAR (69 N,16 E) using Sun Photometer Measurements (2002–2007). , 2009, , .		0
71	Using self-organising maps to explore ozone profile validation results – SCIAMACHY limb compared to ground-based lidar observations. Atmospheric Measurement Techniques, 2015, 8, 1951-1963.	1.2	0
72	Case study of the development of polar stratospheric clouds using bistatic imaging. Annales Geophysicae, 2003, 21, 1869-1878.	0.6	0

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73	Can statistics of turbulent tracer dispersion be inferred from camera observations of SO ₂ in the ultraviolet? A modelling study. Atmospheric Measurement Techniques, 2020, 13, 3303-3318.	1.2	0