Andreas Volz-Thomas

List of Publications by Year
in descending order

82	6,154	71102	76900
papers	citations	41 h-index	74 g-index

83	83	83	4188
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lightning NO_x influence on large-scale NO_y and O₃ plumes observed over the northern mid-latitudes. Tellus, Series B: Chemical and Physical Meteorology, 2022, 66, 25544.	1.6	8
2	Global-scale atmosphere monitoring by in-service aircraft â€“ current achievements and future prospects of the European Research Infrastructure IAGOS. Tellus, Series B: Chemical and Physical Meteorology, 2022, 67, 28452.	1.6	118
3	The geographical distribution of meteorological parameters associated with high and low summer ozone levels in the lower troposphere and the boundary layer over the eastern Mediterranean (Cairo) Tj ETQq1 1 0.784314 rgBT /Ove	1.6	8
4	The first regular measurements of ozone, carbon monoxide and water vapour in the Pacific UTLS by IAGOS. Tellus, Series B: Chemical and Physical Meteorology, 2022, 67, 28385.	1.6	13
5	Instrumentation on commercial aircraft for monitoring the atmospheric composition on a global scale: the IAGOS system, technical overview of ozone and carbon monoxide measurements. Tellus, Series B: Chemical and Physical Meteorology, 2022, 67, 27791.	1.6	61
6	Climatology of NO_y in the troposphere and UT/LS from measurements made in MOZAIC. Tellus, Series B: Chemical and Physical Meteorology, 2022, 67, 28793.	1.6	4
7	Properties of small cirrus ice crystals from commercial aircraft measurements and implications for flight operations. Tellus, Series B: Chemical and Physical Meteorology, 2015, 67, 27876.	1.6	12
8	The backscatter cloud probe â€“ a compact low-profile autonomous optical spectrometer. Atmospheric Measurement Techniques, 2014, 7, 1443-1457.	3.1	31
9	Longâ€term changes in lower tropospheric baseline ozone concentrations: Comparing chemistryâ€climate models and observations at northern midlatitudes. Journal of Geophysical Research D: Atmospheres, 2014, 119, 5719-5736.	3.3	149
10	Lower tropospheric ozone at northern midlatitudes: Changing seasonal cycle. Geophysical Research Letters, 2013, 40, 1631-1636.	4.0	95
11	Examination of the atmospheric conditions associated with high and low summer ozone levels in the lower troposphere over the eastern Mediterranean. Atmospheric Chemistry and Physics, 2013, 13, 10339-10352.	4.9	61
12	Cloud-resolving chemistry simulation of a Hector thunderstorm. Atmospheric Chemistry and Physics, 2013, 13, 2757-2777.	4.9	20
13	The ACCENT-protocol: a framework for benchmarking and model evaluation. Geoscientific Model Development, 2012, 5, 611-618.	3.6	12
14	Aerosol observations and growth rates downwind of the anvil of a deep tropical thunderstorm. Atmospheric Chemistry and Physics, 2012, 12, 6157-6172.	4.9	17
15	Long-term changes in lower tropospheric baseline ozone concentrations at northern mid-latitudes. Atmospheric Chemistry and Physics, 2012, 12, 11485-11504.	4.9	260
16	Evaluation of ACE-FTS and OSIRIS Satellite retrievals of ozone and nitric acid in the tropical upper troposphere: Application to ozone production efficiency. Journal of Geophysical Research, 2011, 116, .	3.3	20
17	Representation of tropical deep convection in atmospheric models â€“ Part 2: Tracer transport. Atmospheric Chemistry and Physics, 2011, 11, 8103-8131.	4.9	46
18	Composition of the TTL over Darwin: local mixing or long-range transport?. Atmospheric Chemistry and Physics, 2009, 9, 7725-7736.	4.9	20

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19	Lightning-produced NO_x during the Northern Australian monsoon; results from the ACTIVE campaign. Atmospheric Chemistry and Physics, 2009, 9, 7419-7429.	4.9	10
20	An idealized twoâ€dimensional approach to study the impact of the West African monsoon on the meridional gradient of tropospheric ozone. Journal of Geophysical Research, 2008, 113, .	3.3	18
21	An In-Flight Calibration Method for Near-Real-Time Humidity Measurements with the Airborne MOZAIC Sensor. Journal of Atmospheric and Oceanic Technology, 2008, 25, 656-666.	1.3	18
22	Carbon dioxide uptake of a forested region in southwest France derived from airborne CO2and CO measurements in a quasi-Lagrangian experiment. Journal of Geophysical Research, 2004, 109, .	3.3	40
23	OH formation by HONO photolysis during the BERLIOZ experiment. Journal of Geophysical Research, 2003, 108, PHO 3-1.	3.3	265
24	Nighttime formation of peroxy and hydroxyl radicals during the BERLIOZ campaign: Observations and modeling studies. Journal of Geophysical Research, 2003, 108, .	3.3	91
25	Hydrocarbon measurements at Pabstthum during the BERLIOZ campaign and modeling of free radicals. Journal of Geophysical Research, 2003, 108, .	3.3	30
26	Peroxy radicals during BERLIOZ at Pabstthum: Measurements, radical budgets and ozone production. Journal of Geophysical Research, 2003, 108, .	3.3	93
27	Hydrogen peroxide, organic peroxides, carbonyl compounds, and organic acids measured at Pabstthum during BERLIOZ. Journal of Geophysical Research, 2003, 108, .	3.3	72
28	Inorganic trace gases and peroxy radicals during BERLIOZ at Pabstthum: An investigation of the photostationary state of NOxand O3. Journal of Geophysical Research, 2003, 108, PHO 4-1.	3.3	52
29	Introduction to Special Section: Photochemistry Experiment in BERLIOZ. Journal of Geophysical Research, 2003, 108, .	3.3	22
30	A Database for Volatile Organic Compounds. Journal of Atmospheric Chemistry, 2002, 42, 281-286.	3.2	19
31	Title is missing!. Journal of Atmospheric Chemistry, 2002, 42, 465-492.	3.2	36
32	Title is missing!. Journal of Atmospheric Chemistry, 2002, 42, 289-321.	3.2	30
33	Quality Assurance in TFS for Inorganic Compounds. Journal of Atmospheric Chemistry, 2002, 42, 235-253.	3.2	19
34	Quality Assurance of Hydrocarbon Measurements for the German Tropospheric Research Focus (TFS). Journal of Atmospheric Chemistry, 2002, 42, 255-279.	3.2	30
35	Characterization of a commercial gas chromatographyâ€“flame ionization detection system for the in situ determination of C5â€“C10 hydrocarbons in ambient air. Journal of Chromatography A, 2000, 878, 215-234.	3.7	25
36	Airborne intercomparison of vacuum ultraviolet fluorescence and tunable diode laser absorption measurements of tropospheric carbon monoxide. Journal of Geophysical Research, 2000, 105, 24251-24261.	3.3	141

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37	Measurements of trace gases and photolysis frequencies during SLOPE96 and a coarse estimate of the local OH concentration from HNO3formation. Journal of Geophysical Research, 2000, 105, 1563-1583.	3.3	29
38	Schauinsland Ozone Precursor Experiment (SLOPE96): Scientific background and main results. Journal of Geophysical Research, 2000, 105, 1553-1561.	3.3	18
39	Influence of valley winds on transport and dispersion of airborne pollutants in the Freiburg-Schauinsland area. Journal of Geophysical Research, 2000, 105, 1585-1597.	3.3	60
40	On the budget of hydroxyl radicals at Schauinsland during the Schauinsland Ozone Precursor Experiment (SLOPE96). Journal of Geophysical Research, 2000, 105, 1611-1622.	3.3	30
41	TOR: An Overview of Tropospheric Ozone Research. , 2000, , 202-238.		0
42	Formation of hydroxyl and hydroperoxy radicals in the gas-phase ozonolysis of ethene. Chemical Physics Letters, 1999, 301, 559-564.	2.6	45
43	An improved fast-response vacuum-UV resonance fluorescence CO instrument. Journal of Geophysical Research, 1999, 104, 1699-1704.	3.3	322
44	On the Exchange of NO3 Radicals with Aqueous Solutions: Solubility and Sticking Coefficient. Journal of Atmospheric Chemistry, 1998, 29, 17-43.	3.2	59
45	Photochemical box modeling of long-range transport from North America to Tenerife during the North Atlantic Regional Experiment (NARE) 1993. Journal of Geophysical Research, 1998, 103, 13477-13488.	3.3	26
46	Trace gas measurements during the Oxidizing Capacity of the Tropospheric Atmosphere campaign 1993 at IzaÃ±a. Journal of Geophysical Research, 1998, 103, 13505-13518.	3.3	36
47	Long-term measurements of alkyl nitrates in southern Germany: 1. General behavior and seasonal and diurnal variation. Journal of Geophysical Research, 1998, 103, 5729-5746.	3.3	66
48	Intercomparison of NO, NO2, NOy, O3, and ROxmeasurements during the Oxidizing Capacity of the Tropospheric Atmosphere (OCTA) campaign 1993 at IzaÃ±a. Journal of Geophysical Research, 1998, 103, 13615-13634.	3.3	23
49	Chemical air mass differences near fronts. Journal of Geophysical Research, 1998, 103, 13413-13434.	3.3	83
50	Preface [to special section on North Atlantic Regional Experiment (NARE II)]. Journal of Geophysical Research, 1998, 103, 13353-13355.	3.3	9
51	Trends in stratospheric and free tropospheric ozone. Journal of Geophysical Research, 1997, 102, 1571-1590.	3.3	106
52	Climatologies of NOxx and NOy: A comparison of data and models. Atmospheric Environment, 1997, 31, 1851-1904.	4.1	111
53	Climatology of Ozone, PAN, CO, and NMHC in the Free Troposphere Over the Southern North Atlantic. Journal of Atmospheric Chemistry, 1997, 28, 245-262.	3.2	23
54	Title is missing!. Journal of Atmospheric Chemistry, 1997, 28, 263-282.	3.2	44

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55	Long-Term Measurements of Light Hydrocarbons (C2â€“C5) at Schauinsland (Black Forest). Journal of Atmospheric Chemistry, 1997, 28, 135-171.	3.2	36
56	An Overview of Tropospheric Ozone Research. , 1997, , 1-34.		3
57	Temporal variations in formaldehyde, acetaldehyde and acetone and budget of formaldehyde at a rural site in Southern Germany. Atmospheric Environment, 1996, 30, 3667-3676.	4.1	65
58	Fast response resonance fluorescence CO measurements aboard the C-130: Instrument characterization and measurements made during North Atlantic Regional Experiment 1993. Journal of Geophysical Research, 1996, 101, 29229-29238.	3.3	79
59	North Atlantic Regional Experiment 1993 Summer Intensive: Foreword. Journal of Geophysical Research, 1996, 101, 28869-28875.	3.3	47
60	Airborne measurements of the photolysis frequency of NO2. Journal of Geophysical Research, 1996, 101, 18613-18627.	3.3	95
61	Temporal variability of summer-time ozone and aerosols in the free troposphere over the eastern North Atlantic. Geophysical Research Letters, 1995, 22, 2925-2928.	4.0	100
62	Calibration source for peroxy radicals with built-in actinometry using H2O and O2photolysis at 185 nm. Journal of Geophysical Research, 1995, 100, 18811.	3.3	96
63	Trends in surface ozone concentrations at Arosa (Switzerland). Atmospheric Environment, 1994, 28, 75-87.	4.1	226
64	Simultaneous measurements of peroxy and nitrate radicals at Schauinsland. Journal of Atmospheric Chemistry, 1993, 16, 313-335.	3.2	137
65	Preparation of organic nitrates from alcohols and N2O5 for species identification in atmospheric samples. Journal of Atmospheric Chemistry, 1993, 16, 349-359.	3.2	40
66	On the interaction of isotopic exchange processes with photochemical reactions in atmospheric oxides of nitrogen. Journal of Geophysical Research, 1993, 98, 14791-14796.	3.3	129
67	Interhemispheric asymmetry in OH abundance inferred from measurements of atmospheric 14CO. Nature, 1992, 356, 50-52.	27.8	76
68	Measurements of alkyl nitrates in rural and polluted air masses. Atmospheric Environment Part A General Topics, 1991, 25, 1951-1960.	1.3	89
69	Numerical analysis of ESR spectra from atmospheric samples. Journal of Atmospheric Chemistry, 1990, 11, 271-297.	3.2	79
70	A photoelectric detector for the measurement of photolysis frequencies of ozone and other atmospheric molecules. Journal of Atmospheric Chemistry, 1989, 8, 203-227.	3.2	147
71	Evaluation of the Montsouris series of ozone measurements made in the nineteenth century. Nature, 1988, 332, 240-242.	27.8	739
72	Measurements of nitric oxide between 0â€“12 km altitude and 67Â°N to 60Â°S latitude obtained during STRATOZ III. Journal of Geophysical Research, 1988, 93, 15831-15849.	3.3	94

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73	Measurements of tropospheric OH concentrations: A comparison of field data with model predictions. Journal of Atmospheric Chemistry, 1987, 5, 185-216.	3.2	116
74	An optimized chemiluminescence detector for tropospheric NO measurements. Journal of Atmospheric Chemistry, 1985, 2, 287-306.	3.2	80
75	A resonance-fluorescence instrument for the in-situ measurement of atmospheric carbon monoxide. Journal of Atmospheric Chemistry, 1985, 2, 345-357.	3.2	30
76	Seasonal and latitudinal variation of ¹⁴CO and the tropospheric concentration of OH radicals. Journal of Geophysical Research, 1981, 86, 5163-5171.	3.3	189
77	Comment [on â€œImproved airborne measurements of OH in the atmosphere using the technique of laserâ€•induced fluorescenceâ€•by C. C. Wang, L. I. Davis, Jr., P. M. Selzer, and R. Munoz]. Journal of Geophysical Research, 1981, 86, 12155-12155.	3.3	3
78	The vertical distribution of stable trace gases at midâ€•latitudes. Journal of Geophysical Research, 1981, 86, 5179-5184.	3.3	93
79	Simultaneously measured vertical profiles of H₂, CH₄, CO, N₂O, CFCl₃, and CF₂Cl₂ in the midâ€•latitude stratosphere and troposphere. Journal of Geophysical Research, 1979, 84, 3149-3154.	3.3	100
80	The vertical distribution of CFM and related species in the stratosphere. Pure and Applied Geophysics, 1978, 116, 545-553.	1.9	10
81	Depth profiles of chlorofluoromethanes in the Norwegian sea. Pure and Applied Geophysics, 1978, 116, 575-582.	1.9	18
82	OH â€•Radicals in the lower troposphere. Geophysical Research Letters, 1976, 3, 466-468.	4.0	167