

Franz-Josef LÃ¼bken

List of Publications by Year in descending order

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80
papers

3,280
citations

136950

32
h-index

161849

54
g-index

83
all docs

83
docs citations

83
times ranked

1021
citing authors

#	ARTICLE	IF	CITATIONS
1	Long term trends of mesospheric ice layers: A model study. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021, 214, 105378.	1.6	12
2	High-Resolution Observations of Turbulence Distributions Across Tropopause Folds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033857.	3.3	8
3	Seasonal Cycle of Gravity Wave Potential Energy Densities from Lidar and Satellite Observations at 54° and 69°N. <i>Journals of the Atmospheric Sciences</i> , 2021, 78, 1359-1386.	1.7	16
4	VAHCOLI, a new concept for lidars: technical setup, science applications, and first measurements. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 3815-3836.	3.1	9
5	Turbulence generated small-scale structures as PMWE formation mechanism: Results from a rocket campaign. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021, 217, 105559.	1.6	5
6	On the unusually bright and frequent noctilucent clouds in summer 2019 above Northern Germany. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021, 217, 105577.	1.6	2
7	Role Of the Sun and the Middle atmosphere/thermosphere/ionosphere In Climate (ROSMIC): a retrospective and prospective view. <i>Progress in Earth and Planetary Science</i> , 2021, 8, .	3.0	13
8	Radar Observation of Extreme Vertical Drafts in the Polar Summer Mesosphere. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094918.	4.0	14
9	Advanced hodograph-based analysis technique to derive gravity-wave parameters from lidar observations. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 479-499.	3.1	13
10	Noctilucent Clouds: General Properties and Remote Sensing. <i>Springer Polar Sciences</i> , 2020, , 469-503.	0.1	3
11	Solar Response and Long-Term Trend of Midlatitude Mesopause Region Temperature Based on 28 Years (1990-2017) of Na Lidar Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7140-7156.	2.4	22
12	Evaluation of wake influence on high-resolution balloon-sonde measurements. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 4191-4210.	3.1	8
13	A new description of probability density distributions of polar mesospheric clouds. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 4685-4702.	4.9	4
14	Simultaneous in situ measurements of small-scale structures in neutral, plasma, and atomic oxygen densities during the WADIS sounding rocket project. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11443-11460.	4.9	11
15	Temporal variability of tidal and gravity waves during a record long 10-day continuous lidar sounding. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 371-384.	4.9	39
16	Local time dependence of polar mesospheric clouds: a model study. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8893-8908.	4.9	8
17	Observations of Reduced Turbulence and Wave Activity in the Arctic Middle Atmosphere Following the January 2015 Sudden Stratospheric Warming. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 13259-13276.	3.3	11
18	On the Anthropogenic Impact on Long-Term Evolution of Noctilucent Clouds. <i>Geophysical Research Letters</i> , 2018, 45, 6681-6689.	4.0	44

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19	Using polar mesosphere summer echoes and stratospheric/mesospheric winds to explain summer mesopause jumps in Antarctica. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017, 162, 106-115.	1.6	12
20	Seasonal variation of gravity wave parameters using different filter methods with daylight lidar measurements at midlatitudes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2683-2695.	3.3	21
21	Analysis of small-scale structures in lidar observations of noctilucent clouds using a pattern recognition method. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017, 162, 48-56.	1.6	10
22	Long-term variations of noctilucent clouds at ALOMAR. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017, 162, 79-89.	1.6	24
23	Winds and temperatures of the Arctic middle atmosphere during January measured by Doppler lidar. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13345-13359.	4.9	17
24	Case study of wave breaking with high-resolution turbulence measurements with LITOS and WRF simulations. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7941-7954.	4.9	10
25	Spatial and temporal variability in MLT turbulence inferred from in situ and ground-based observations during the WADIS-1 sounding rocket campaign. <i>Annales Geophysicae</i> , 2017, 35, 547-565.	1.6	18
26	Mesospheric temperature soundings with the new, daylight-capable IAP RMR lidar. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 3707-3715.	3.1	14
27	Lidar Soundings Between 30 and 100 km Altitude During Day and Night for Observation of Temperatures, Gravity Waves and Tides. <i>EPJ Web of Conferences</i> , 2016, 119, 13001.	0.3	2
28	Inertia gravity wave in the stratosphere and mesosphere observed by Doppler wind and temperature lidar. <i>Geophysical Research Letters</i> , 2015, 42, 10,929.	4.0	35
29	Lidar observations of gravity wave activity in the middle atmosphere over Davis (69°S, 78°E), Antarctica. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 4506-4521.	3.3	43
30	Winter/summer transition in the Antarctic mesopause region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 12394-12409.	3.3	11
31	Trends in mesospheric ice layers in the Northern Hemisphere during 1961–2013. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 11,277.	3.3	33
32	Tidal signatures in temperatures derived from daylight lidar soundings above Hllungsborn (54°N), Tj ETQq0 0 0 rgBT /Overlock 10 T	1.6	22
33	Turbulent scattering for radars: A summary. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2014, 107, 1-7.	1.6	14
34	Temporal and spatial characteristics of the formation of strong noctilucent clouds. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 104, 151-166.	1.6	26
35	Noctilucent cloud variability and mean parameters from 15 years of lidar observations at a mid-latitude site (54°N, 12°E). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 317-328.	3.3	17
36	Temperature trends in the midlatitude summer mesosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 13,347.	3.3	58

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37	Diurnal variations of midlatitude NLC parameters observed by daylightâ€capable lidar and their relation to ambient parameters. <i>Geophysical Research Letters</i> , 2013, 40, 6390-6394.	4.0	20
38	Latitudinal and interhemispheric variation of stratospheric effects on mesospheric ice layer trends. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	24
39	Mesospheric temperature trends at mid-latitudes in summer. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	36
40	First measurements of thermal tides in the summer mesopause region at Antarctic latitudes. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	51
41	NLC and the background atmosphere above ALOMAR. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5701-5717.	4.9	47
42	LITOS â€“ a new balloon-borne instrument for fine-scale turbulence soundings in the stratosphere. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 55-66.	3.1	29
43	The Turbopause experiment: atmospheric stability and turbulent structure spanning the turbopause altitude. <i>Annales Geophysicae</i> , 2011, 29, 2327-2339.	1.6	19
44	Introduction to special section on Climate and Weather of the Sun Earth System. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	3
45	First continuous temperature measurements within polar mesosphere summer echoes. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 453-463.	1.6	58
46	NLC observations during one solar cycle above ALOMAR. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 424-433.	1.6	53
47	Stratospheric and solar cycle effects on longâ€term variability of mesospheric ice clouds. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	62
48	Seasonal and latitudinal variation of noctilucent cloud altitudes. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	33
49	Seasonal changes in gravity wave activity measured by lidars at mid-latitudes. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6775-6787.	4.9	60
50	Simultaneous observation of noctilucent clouds, mesospheric summer echoes, and temperature at a midlatitude station (54Å°N). <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	48
51	Radar measurements of turbulence, electron densities, and absolute reflectivities during polar mesosphere winter echoes (PMWE). <i>Advances in Space Research</i> , 2007, 40, 758-764.	2.6	23
52	The sensitivity of mesospheric ice layers to atmospheric background temperatures and water vapor. <i>Advances in Space Research</i> , 2007, 40, 794-801.	2.6	26
53	Intense turbulence observed above a mesospheric temperature inversion at equatorial latitude. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	26
54	Weather in mesospheric ice layers. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	43

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55	Lidar temperature measurements of gravity waves over KÃ¼hlungsborn (54Â°N) from 1 to 105 km: A winter-summer comparison. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	46
56	The thermal and dynamical state of the atmosphere during polar mesosphere winter echoes. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 13-24.	4.9	48
57	Rocket measurements of positive ions during polar mesosphere winter echo conditions. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 5515-5524.	4.9	16
58	Observations of extreme temperature and wind gradients near the summer mesopause during the MaCWAVE/MIDAS rocket campaign. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	55
59	Temperatures and horizontal winds in the Antarctic summer mesosphere. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	34
60	Polar mesosphere summer echoes (PMSE): Review of observations and current understanding. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 2601-2633.	4.9	337
61	On the nature of PMSE: Electron diffusion in the vicinity of charged particles revisited. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	114
62	Small scale density variations of electrons and charged particles in the vicinity of polar mesosphere summer echoes. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 1399-1407.	4.9	23
63	Neutral air turbulence and temperatures in the vicinity of polar mesosphere summer echoes. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 9-1.	3.3	116
64	Small-scale temperature variations in the vicinity of NLC: Experimental and model results. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 11-1.	3.3	164
65	Dregion electron number density limits for the existence of polar mesosphere summer echoes. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 2-1.	3.3	42
66	In situ measurements of mesospheric turbulence during spring transition of the Arctic mesosphere. <i>Geophysical Research Letters</i> , 2002, 29, 115-1-115-4.	4.0	5
67	First observation of one noctilucent cloud by a twin lidar in two different directions. <i>Annales Geophysicae</i> , 2002, 20, 1863-1868.	1.6	19
68	Absolute density measurements in the middle atmosphere. <i>Annales Geophysicae</i> , 2001, 19, 571-580.	1.6	62
69	Modelling of particle charging in the polar summer mesosphere: Part 1â€™General results. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2001, 63, 759-770.	1.6	96
70	Modelling of particle charging in the polar summer mesosphere: Part 2â€™Application to measurements. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2001, 63, 771-780.	1.6	19
71	First in situ temperature measurements at the Antarctic summer mesopause. <i>Geophysical Research Letters</i> , 1999, 26, 3581-3584.	4.0	70
72	Microphysical and turbulent measurements of the Schmidt number in the vicinity of polar mesosphere summer echoes. <i>Geophysical Research Letters</i> , 1998, 25, 893-896.	4.0	63

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73	Seasonal variation of turbulent energy dissipation rates at high latitudes as determined by in situ measurements of neutral density fluctuations. <i>Journal of Geophysical Research</i> , 1997, 102, 13441-13456.	3.3	256
74	Noctilucent clouds and the thermal structure near the Arctic mesopause in summer. <i>Journal of Geophysical Research</i> , 1996, 101, 9489-9508.	3.3	96
75	Simultaneous observation of convective adjustment and turbulence generation in the mesosphere. <i>Geophysical Research Letters</i> , 1995, 22, 2477-2480.	4.0	17
76	In-situ measurement of the Schmidt number within a PMSE layer. <i>Geophysical Research Letters</i> , 1994, 21, 1651-1654.	4.0	20
77	First in-situ observations of neutral and plasma density fluctuations within a PMSE layer. <i>Geophysical Research Letters</i> , 1993, 20, 2311-2314.	4.0	60
78	Experiments revealing small impact of turbulence on the energy budget of the mesosphere and lower thermosphere. <i>Journal of Geophysical Research</i> , 1993, 98, 20369-20384.	3.3	98
79	On the extraction of turbulent parameters from atmospheric density fluctuations. <i>Journal of Geophysical Research</i> , 1992, 97, 20385-20395.	3.3	83
80	BUGATTI experiments: Mass spectrometric studies of lower thermosphere eddy mixing and turbulence. <i>Journal of Geophysical Research</i> , 1990, 95, 7443-7465.	3.3	30