

Ulf-Peter Hoppe

List of Publications by Year in descending order

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73
papers

1,741
citations

279487

23
h-index

315357

38
g-index

74
all docs

74
docs citations

74
times ranked

810
citing authors

#	ARTICLE	IF	CITATIONS
1	Segmentation of PMSE Data Using Random Forests. Remote Sensing, 2022, 14, 2976.	1.8	3
2	Derivation of vertical wavelengths of gravity waves in the MLT-region from multispectral airglow observations. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 173, 119-127.	0.6	13
3	Impacts of a sudden stratospheric warming on the mesospheric metal layers. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 162, 162-171.	0.6	16
4	Spatial and temporal variability in MLT turbulence inferred from in situ and ground-based observations during the WADIS-1 sounding rocket campaign. Annales Geophysicae, 2017, 35, 547-565.	0.6	18
5	Retrieval of sodium number density profiles in the mesosphere and lower thermosphere from SCIAMACHY limb emission measurements. Atmospheric Measurement Techniques, 2016, 9, 295-311.	1.2	5
6	Mesospheric temperatures and sodium properties measured with the ALOMAR Na lidar compared with WACCM. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 127, 111-119.	0.6	13
7	Corrigendum to "Development of the mesospheric Na layer at 69° N during the Geminids meteor shower 2010", published in Ann. Geophys., 31, 61-73, 2013. Annales Geophysicae, 2015, 33, 197-197.	0.6	1
8	Development of the mesospheric Na layer at 69° N during the Geminids meteor shower 2010. Annales Geophysicae, 2013, 31, 61-73.	0.6	16
9	Multi-instrument comparisons of D-region plasma measurements. Annales Geophysicae, 2013, 31, 135-144.	0.6	17
10	Payload charging events in the mesosphere and their impact on Langmuir type electric probes. Annales Geophysicae, 2013, 31, 187-196.	0.6	20
11	Preface "Structure, composition, and dynamics of the middle atmosphere and lower ionosphere during a major meteor shower". Annales Geophysicae, 2013, 31, 1829-1831.	0.6	1
12	Simultaneous observations of a Mesospheric Inversion Layer and turbulence during the ECOMA-2010 rocket campaign. Annales Geophysicae, 2013, 31, 775-785.	0.6	32
13	In situ observations of meteor smoke particles (MSP) during the Geminids 2010: constraints on MSP size, work function and composition. Annales Geophysicae, 2012, 30, 1661-1673.	0.6	39
14	Electron loss and meteoric dust in the mesosphere. Annales Geophysicae, 2012, 30, 1495-1501.	0.6	27
15	Combined wind measurements by two different lidar instruments in the Arctic middle atmosphere. Atmospheric Measurement Techniques, 2012, 5, 2433-2445.	1.2	27
16	Localized mesosphere-stratosphere-troposphere radar echoes from the E region at 69°N: Properties and physical mechanisms. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	5
17	The Hotel Payload 2 campaign: Overview of NO, O and electron density measurements in the upper mesosphere and lower thermosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 2228-2236.	0.6	11
18	Study of the seasonal ozone variations at European high latitudes. Advances in Space Research, 2011, 47, 740-747.	1.2	2

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19	Microphysical Properties of Mesospheric Aerosols: An Overview of In Situ-Results from the ECOMA Project. , 2011, , 67-74.		5
20	Rocketborne in situ measurements of meteor smoke: Charging properties and implications for seasonal variation. Journal of Geophysical Research, 2010, 115, .	3.3	29
21	The ECOMA 2007 campaign: rocket observations and numerical modelling of aerosol particle charging and plasma depletion in a PMSE/NLC layer. Annales Geophysicae, 2009, 27, 781-796.	0.6	21
22	Mass analysis of charged aerosol particles in NLC and PMSE during the ECOMA/MASS campaign. Annales Geophysicae, 2009, 27, 1213-1232.	0.6	51
23	First in situ measurement of the vertical distribution of ice volume in a mesospheric ice cloud during the ECOMA/MASS rocket-campaign. Annales Geophysicae, 2009, 27, 755-766.	0.6	25
24	Measurements of meteor smoke particles during the ECOMA-2006 campaign: 2. Results. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 486-496.	0.6	29
25	Polar mesosphere summer echoes (PMSE) studied at Bragg wavelengths of 2.8m, 67cm, and 16cm. Journal of Atmospheric and Solar-Terrestrial Physics, 2008, 70, 947-961.	0.6	58
26	Summer sudden Na number density enhancements measured with the ALOMAR Weber Na Lidar. Annales Geophysicae, 2008, 26, 1057-1069.	0.6	17
27	A case study of a sporadic sodium layer observed by the ALOMAR Weber Na lidar. Annales Geophysicae, 2008, 26, 1071-1081.	0.6	14
28	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
29	Rocket measurements of positive ions during polar mesosphere winter echo conditions. Atmospheric Chemistry and Physics, 2006, 6, 5515-5524.	1.9	16
30	A reconsideration of spectral width measurements in PMSE with EISCAT. Advances in Space Research, 2006, 38, 2408-2412.	1.2	7
31	Illumination on Noctilucent Clouds. Physics Today, 2005, 58, 17-17.	0.3	0
32	The red-sky enigma over Svalbard in December 2002. Annales Geophysicae, 2005, 23, 1593-1602.	0.6	0
33	Summertime low-ozone episodes at northern high latitudes. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 3265-3275.	1.0	22
34	Modelling the small-scale plasma response to the presence of heavy aerosol particles. Advances in Space Research, 2003, 31, 2045-2054.	1.2	8
35	Modeling the plasma response to small-scale aerosol particle perturbations in the mesopause region. Journal of Geophysical Research, 2003, 108, .	3.3	64
36	DROPPS: A study of the polar summer mesosphere with rocket, radar and lidar. Geophysical Research Letters, 2001, 28, 1407-1410.	1.5	39

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37	Large electric potential perturbations in PMSE during DROPPS. Geophysical Research Letters, 2001, 28, 1435-1438.	1.5	20
38	Electrical structure of PMSE and NLC regions during the DROPPS Program. Geophysical Research Letters, 2001, 28, 1427-1430.	1.5	54
39	Lagrangian reconstruction of ozone column and profile at the Arctic Lidar Observatory for Middle Atmosphere Research (ALOMAR) throughout the winter and spring of 1997-1998. Journal of Geophysical Research, 2001, 106, 10011-10021.	3.3	11
40	The DROPPS program to study the polar summer mesosphere. Advances in Space Research, 2001, 28, 1037-1046.	1.2	4
41	First artificially induced modulation of PMSE using the EISCAT Heating Facility. Geophysical Research Letters, 2000, 27, 3801-3804.	1.5	85
42	Seasonal variation of turbulent energy dissipation rates in the polar mesosphere: a comparison of methods. Earth, Planets and Space, 1999, 51, 515-524.	0.9	17
43	Observations in the polar middle atmosphere by rocket-borne Rayleigh lidar: First results. Earth, Planets and Space, 1999, 51, 815-824.	0.9	11
44	Rocketborne Rayleigh lidar for in situ measurements of neutral atmospheric density. Applied Optics, 1999, 38, 2605.	2.1	15
45	Estimates of turbulent energy dissipation rates from determinations of characteristic vertical wavenumber by EISCAT. Geophysical Research Letters, 1998, 25, 4075-4078.	1.5	4
46	Evidence of substantial ozone depletion in winter 1995/96 over northern Norway. Geophysical Research Letters, 1997, 24, 799-802.	1.5	52
47	Characteristic vertical wavenumbers for the polar mesosphere. Geophysical Research Letters, 1997, 24, 837-840.	1.5	6
48	Noctilucent clouds: One- and two-color lidar observations. Geophysical Research Letters, 1997, 24, 1635-1638.	1.5	16
49	Lidar observations of polar stratospheric clouds and stratospheric temperature in winter 1995/96 over northern Norway. Geophysical Research Letters, 1997, 24, 131-134.	1.5	14
50	Dynamical modelling of wintertime lidar observations in the arctic : Ozone laminae and ozone depletion. Quarterly Journal of the Royal Meteorological Society, 1997, 123, 785-800.	1.0	40
51	Investigation of the upper mesospheric dynamics under late polar summer conditions by EISCAT and lidar. Journal of Atmospheric and Solar-Terrestrial Physics, 1996, 58, 317-335.	0.9	11
52	A comparison of PMSE and other ground-based observations during the NLC-91 campaign. Journal of Atmospheric and Solar-Terrestrial Physics, 1995, 57, 35-44.	0.9	32
53	On the downward bias in vertical velocity measurements by VHF radars. Geophysical Research Letters, 1995, 22, 619-622.	1.5	22
54	High-resolution measurements of vertical velocity with the European incoherent scatter VHF radar: 1. Motion field characteristics and measurement biases. Journal of Geophysical Research, 1995, 100, 16813.	3.3	56

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55	High-resolution measurements of vertical velocity with the European incoherent scatter VHF radar: 2. Spectral observations and model comparisons. <i>Journal of Geophysical Research</i> , 1995, 100, 16827.	3.3	19
56	Studies of polar mesosphere summer echoes by VHF radar and rocket probes. <i>Advances in Space Research</i> , 1994, 14, 139-148.	1.2	29
57	Gravity-wave activity and its relation with prevailing winds during DYANA. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1994, 56, 1765-1778.	0.9	16
58	Vertical velocities measured at Biscarrosse (44°N) and by EISCAT at Tromsø (69.6°N) during the DYANA campaign. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1994, 56, 1779-1796.	0.9	10
59	A study of small-scale waves and turbulence in the mesosphere using simultaneous in situ observations of neutral gas and plasma fluctuations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1994, 56, 1797-1808.	0.9	17
60	First in situ observations of neutral and plasma density fluctuations within a PMSE layer. <i>Geophysical Research Letters</i> , 1993, 20, 2311-2314.	1.5	60
61	The formation of a thin horizontal layer by the interaction of a gravity wave with a wind shear as investigated by numerical methods. <i>Advances in Space Research</i> , 1992, 12, 193-197.	1.2	11
62	Incoherent scatter radar observations of the middle atmosphere response to a PCA. <i>Advances in Space Research</i> , 1992, 12, 289-294.	1.2	8
63	Comparison of observed and calculated incoherent scatter spectra from the <i>D</i> region. <i>Radio Science</i> , 1991, 26, 1153-1164.	0.8	14
64	Multiple-frequency studies of the high-latitude summer mesosphere : implications for scattering processes. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1990, 52, 907-926.	0.9	50
65	A study of the vertical motion field near the high-latitude summer mesopause during MAC/SINE. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1990, 52, 927-938.	0.9	47
66	Mean state densities, temperatures and winds during the MAC/SINE and MAC/EPSILON campaigns. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1990, 52, 955-970.	0.9	43
67	Electric field measurements during the MAC/EPSILON campaign. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1990, 52, 1055-1065.	0.9	10
68	Eiscat vhf radar observations of periodic mesopause echoes. <i>Planetary and Space Science</i> , 1988, 36, 423-428.	0.9	18
69	Studies of high latitude mesospheric turbulence by radar and rocket 2: measurements of small scale turbulence. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1988, 50, 963-976.	0.9	16
70	First observations of summer polar mesospheric backscatter with a 224 MHz radar. <i>Geophysical Research Letters</i> , 1988, 15, 28-31.	1.5	103
71	The structure and dynamics of polar mesosphere summer echoes observed with the EISCAT 224 MHz radar. <i>Geophysical Research Letters</i> , 1988, 15, 1353-1356.	1.5	95
72	Mesospheric measurements using the EISCAT VHF system : First results and their interpretation. <i>Geophysical Research Letters</i> , 1987, 14, 1187-1190.	1.5	23

#	ARTICLE	IF	CITATIONS
73	Recognition and reconstruction of late auditory evoked potentials using wavelet analysis. , 0, , .		4