Ulf-Peter Hoppe

List of Publications by Year
in descending order

73	1,741	279487 23	315357 38
papers	citations	h-index	g-index

74	74	74	810
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	First observations of summer polar mesospheric backscatter with a 224 MHz radar. Geophysical Research Letters, 1988, 15, 28-31.	1.5	103
2	The structure and dynamics of polar mesosphere summer echoes observed with the EISCAT 224 MHz radar. Geophysical Research Letters, 1988, 15, 1353-1356.	1.5	95
3	First artificially induced modulation of PMSE using the EISCAT Heating Facility. Geophysical Research Letters, 2000, 27, 3801-3804.	1.5	85
4	Modeling the plasma response to small-scale aerosol particle perturbations in the mesopause region. Journal of Geophysical Research, 2003, 108, .	3.3	64
5	First inâ€situ observations of neutral and plasma density fluctuations within a PMSE layer. Geophysical Research Letters, 1993, 20, 2311-2314.	1.5	60
6	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
7	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
8	Electrical structure of PMSE and NLC regions during the DROPPS Program. Geophysical Research Letters, 2001, 28, 1427-1430.	1.5	54
9	Evidence of substantial ozone depletion in winter 1995/96 over northern Norway. Geophysical Research Letters, 1997, 24, 799-802.	1.5	52
10	Mass analysis of charged aerosol particles in NLC and PMSE during the ECOMA/MASS campaign. Annales Geophysicae, 2009, 27, 1213-1232.	0.6	51
11	Multiple-frequency studies of the high-latitude summer mesosphere : implications for scattering processes. Journal of Atmospheric and Solar-Terrestrial Physics, 1990, 52, 907-926.	0.9	50
12	A study of the vertical motion field near the high-latitude summer mesopause during MAC/SINE. Journal of Atmospheric and Solar-Terrestrial Physics, 1990, 52, 927-938.	0.9	47
13	Mean state densities, temperatures and winds during the MAC/SINE and MAC/EPSILON campaigns. Journal of Atmospheric and Solar-Terrestrial Physics, 1990, 52, 955-970.	0.9	43
14	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
15	DROPPS: A study of the polar summer mesosphere with rocket, radar and lidar. Geophysical Research Letters, 2001, 28, 1407-1410.	1.5	39
16	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
17	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
18	Simultaneous observations of a Mesospheric Inversion Layer and turbulence during the ECOMA-2010 rocket campaign. Annales Geophysicae, 2013, 31, 775-785.	0.6	32

#	Article	IF	Citations
19	Studies of polar mesosphere summer echoes by VHF radar and rocket probes. Advances in Space Research, 1994, 14, 139-148.	1.2	29
20	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
21	Rocketâ€borne in situ measurements of meteor smoke: Charging properties and implications for seasonal variation. Journal of Geophysical Research, 2010, 115, .	3.3	29
22	Electron loss and meteoric dust in the mesosphere. Annales Geophysicae, 2012, 30, 1495-1501.	0.6	27
23	Combined wind measurements by two different lidar instruments in the Arctic middle atmosphere. Atmospheric Measurement Techniques, 2012, 5, 2433-2445.	1.2	27
24	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
25	Mesospheric measurements using the EISCAT VHF system : First results and their interpretation. Geophysical Research Letters, 1987, 14, 1187-1190.	1.5	23
26	On the downward bias in vertical velocity measurements by VHF radars. Geophysical Research Letters, 1995, 22, 619-622.	1.5	22
27	Summertime low-ozone episodes at northern high latitudes. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 3265-3275.	1.0	22
28	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
29	Large electric potential perturbations in PMSE during DROPPS. Geophysical Research Letters, 2001, 28, 1435-1438.	1.5	20
30	Payload charging events in the mesosphere and their impact on Langmuir type electric probes. Annales Geophysicae, 2013, 31, 187-196.	0.6	20
31	High-resolution measurements of vertical velocity with the European incoherent scatter VHF radar: 2. Spectral observations and model comparisons. Journal of Geophysical Research, 1995, 100, 16827.	3.3	19
32	Eiscat vhf radar observations of periodic mesopause echoes. Planetary and Space Science, 1988, 36, 423-428.	0.9	18
33	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
34	A study of small-scale waves and turbulence in the mesosphere using simultaneous in situ observations of neutral gas and plasma fluctuations. Journal of Atmospheric and Solar-Terrestrial Physics, 1994, 56, 1797-1808.	0.9	17
35	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
36	Summer sudden Na number density enhancements measured with the ALOMAR Weber Na Lidar. Annales Geophysicae, 2008, 26, 1057-1069.	0.6	17

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37	Multi-instrument comparisons of D-region plasma measurements. Annales Geophysicae, 2013, 31, 135-144.	0.6	17
38	Studies of high latitude mesospheric turbulence by radar and rocket 2: measurements of small scale turbulence. Journal of Atmospheric and Solar-Terrestrial Physics, 1988, 50, 963-976.	0.9	16
39	Gravity-wave activity and its relation with prevailing winds during DYANA. Journal of Atmospheric and Solar-Terrestrial Physics, 1994, 56, 1765-1778.	0.9	16
40	Noctilucent clouds: One- and two-color lidar observations. Geophysical Research Letters, 1997, 24, 1635-1638.	1.5	16
41	Rocket measurements of positive ions during polar mesosphere winter echo conditions. Atmospheric Chemistry and Physics, 2006, 6, 5515-5524.	1.9	16
42	Development of the mesospheric Na layer at 69Â° N during the Geminids meteor shower 2010. Annales Geophysicae, 2013, 31, 61-73.	0.6	16
43	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
44	Rocketborne Rayleigh lidar for in situ measurements of neutral atmospheric density. Applied Optics, 1999, 38, 2605.	2.1	15
45	Comparison of observed and calculated incoherent scatter spectra from the D region. Radio Science, 1991, 26, 1153-1164.	0.8	14
46	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
47	A case study of a sporadic sodium layer observed by the ALOMAR Weber Na lidar. Annales Geophysicae, 2008, 26, 1071-1081.	0.6	14
48	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
49	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
50	The formation of a thin horizontal layer by the interaction of a gravity wave with a wind shear as investigated by numerical methods. Advances in Space Research, 1992, 12, 193-197.	1.2	11
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	Observations in the polar middle atmosphere by rocket-borne Rayleigh lidar: First results. Earth, Planets and Space, 1999, 51, 815-824.	0.9	11
53	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
54	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

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55	Electric field measurements during the MAC/EPSILON campaign. Journal of Atmospheric and Solar-Terrestrial Physics, 1990, 52, 1055-1065.	0.9	10
56	Vertical velocities measured at Biscarrosse (44Â°n) and by EISCAT at TromsÃ¸ (69.6Â°n) during the DYANA campaign. Journal of Atmospheric and Solar-Terrestrial Physics, 1994, 56, 1779-1796.	0.9	10
57	Incoherent scatter radar observations of the middle atmosphere response to a PCA. Advances in Space Research, 1992, 12, 289-294.	1.2	8
58	Modelling the small-scale plasma response to the presence of heavy aerosol particles. Advances in Space Research, 2003, 31, 2045-2054.	1.2	8
59	A reconsideration of spectral width measurements in PMSE with EISCAT. Advances in Space Research, 2006, 38, 2408-2412.	1.2	7
60	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
61	Characteristic vertical wavenumbers for the polar mesosphere. Geophysical Research Letters, 1997, 24, 837-840.	1.5	6
62	Localized mesosphere-stratosphere-troposphere radar echoes from theEregion at 69Â°N: Properties and physical mechanisms. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	5
63	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
64	Microphysical Properties of Mesospheric Aerosols: An Overview of In Situ-Results from the ECOMA Project. , 2011, , 67-74.		5
65	Recognition and reconstruction of late auditory evoked potentials using wavelet analysis. , 0, , .		4
66	Estimates of turbulent energy dissipation rates from determinations of characteristic vertical wavenumber by EISCAT. Geophysical Research Letters, 1998, 25, 4075-4078.	1.5	4
67	The DROPPS program to study the polar summer mesosphere. Advances in Space Research, 2001, 28, 1037-1046.	1.2	4
68	Segmentation of PMSE Data Using Random Forests. Remote Sensing, 2022, 14, 2976.	1.8	3
69	Study of the seasonal ozone variations at European high latitudes. Advances in Space Research, 2011, 47, 740-747.	1.2	2
70	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
71	Corrigendum to "Development of the mesospheric Na layer at 69Â° N during the Geminids meteor shower 2010", published in Ann. Geophys., 31, 61â€“73, 2013. Annales Geophysicae, 2015, 33, 197-197.	0.6	1
72	Illumination on Noctilucent Clouds. Physics Today, 2005, 58, 17-17.	0.3	0

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73	The red-sky enigma over Svalbard in December 2002. Annales Geophysicae, 2005, 23, 1593-1602.	0.6	0