Ralph Latteck

List of Publications by Year
in descending order

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94	1,831	257101	360668
papers	citations	24 h-index	35 g-index

114	114	114	615
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multiple E-Region Radar Propagation Modes Measured by the VHF SIMONe Norway System During Active Ionospheric Conditions. Frontiers in Astronomy and Space Sciences, 2022, 9, .	1.1	5
2	Characteristics of Frequencyâ€Power Spectra in the Troposphere and Lower Stratosphere Over AndÃ¸ya (Norway) Revealed by MAARSY. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	2
3	First Studies of Mesosphere and Lower Thermosphere Dynamics Using a Multistatic Specular Meteor Radar Network Over Southern Patagonia. Earth and Space Science, 2021, 8, e2020EA001356.	1.1	13
4	Two decades of long-term observations of polar mesospheric echoes at 69Â°N. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 216, 105576.	0.6	12
5	Turbulence generated small-scale structures as PMWE formation mechanism: Results from a rocket campaign. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 217, 105559.	0.6	5
6	On the unusually bright and frequent noctilucent clouds in summer 2019 above Northern Germany. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 217, 105577.	0.6	2
7	Sounding rocket project â€œPMWEâ€•for investigation of polar mesosphere winter echoes. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 218, 105596.	0.6	8
8	Radar Observation of Extreme Vertical Drafts in the Polar Summer Mesosphere. Geophysical Research Letters, 2021, 48, e2021GL094918.	1.5	14
9	Characterization of polar mesospheric VHF radar echoes during solar minimum winter 2019/2020. Part I: Ionisation. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 221, 105684.	0.6	1
10	Fourâ€Dimensional Quantification of Kelvinâ€Helmholtz Instabilities in the Polar Summer Mesosphere Using Volumetric Radar Imaging. Geophysical Research Letters, 2020, 47, e2019GL086081.	1.5	18
11	Direct Comparison Between Magnetospheric Plasma Waves and Polar Mesosphere Winter Echoes in Both Hemispheres. Journal of Geophysical Research: Space Physics, 2019, 124, 9626-9639.	0.8	7
12	On improving radar echo spectral width analysis for atmospheric turbulence estimates. , 2019, , .		0
13	Enhancing the spatiotemporal features of polar mesosphere summer echoes using coherent MIMO and radar imaging at MAARSY. Atmospheric Measurement Techniques, 2019, 12, 955-969.	1.2	21
14	Simultaneous in situ measurements of small-scale structures in neutral, plasma, and atomic oxygen densities during the WADIS sounding rocket project. Atmospheric Chemistry and Physics, 2019, 19, 11443-11460.	1.9	11
15	Multi-static spatial and angular studies of polar mesospheric summer echoes combining MAARSY and KAIRA. Atmospheric Chemistry and Physics, 2018, 18, 9547-9560.	1.9	7
16	On the role of anisotropic MF/HF scattering in mesospheric wind estimation. Earth, Planets and Space, 2018, 70, .	0.9	14
17	Observation of Kelvinâ€“Helmholtz instabilities and gravity waves in the summer mesopause above Andenes in Northern Norway. Atmospheric Chemistry and Physics, 2018, 18, 6721-6732.	1.9	18
18	High-resolution vertical velocities and their power spectrum observed with the MAARSY radar â€“ PartÂ1: frequency spectrum. Annales Geophysicae, 2018, 36, 577-586.	0.6	8

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19	First Simultaneous Rocket and Radar Detections of Rare Low Summer Mesospheric Clouds. Geophysical Research Letters, 2018, 45, 5727-5734.	1.5	4
20	Using polar mesosphere summer echoes and stratospheric/mesospheric winds to explain summer mesopause jumps in Antarctica. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 162, 106-115.	0.6	12
21	Long-term variations of polar mesospheric summer echoes observed at AndÃ¸ya (69Â°N). Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 163, 31-37.	0.6	13
22	Variability of virtual layered phenomena in the mesosphere observed with medium frequency radars at 69Â°N. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 163, 38-45.	0.6	10
23	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
24	VHF antenna pattern characterization by the observation of meteor head echoes. Atmospheric Measurement Techniques, 2017, 10, 527-535.	1.2	2
25	Extended observations of polar mesosphere winter echoes over AndÃ¸ya (69Â°N) using MAARSY. Journal of Geophysical Research D: Atmospheres, 2015, 120, 8216-8226.	1.2	24
26	Winter/summer transition in the Antarctic mesopause region. Journal of Geophysical Research D: Atmospheres, 2015, 120, 12394-12409.	1.2	11
27	Gravity wave momentum fluxes from MF and meteor radar measurements in the polar MLT region. Journal of Geophysical Research: Space Physics, 2015, 120, 736-750.	0.8	30
28	On the early onset of the NLC season 2013 as observed at ALOMAR. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 127, 73-77.	0.6	5
29	MAARSY multiple receiver phase calibration using radio sources. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 118, 55-63.	0.6	16
30	Multi-radar observations of polar mesosphere summer echoes during the PHOCUS campaign on 20â€“22 July 2011. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 118, 199-205.	0.6	3
31	Determination of meteor-head echo trajectories using the interferometric capabilities of MAARSY. Annales Geophysicae, 2013, 31, 1843-1851.	0.6	23
32	Investigation of gravity waves using horizontally resolved radial velocity measurements. Atmospheric Measurement Techniques, 2013, 6, 2893-2905.	1.2	37
33	The Geminid meteor shower during the ECOMA sounding rocket campaign: specular and head echo radar observations. Annales Geophysicae, 2013, 31, 473-487.	0.6	20
34	Investigation of horizontal structures at mesospheric altitudes using coherent radar imaging. Advances in Radio Science, 2013, 11, 319-325.	0.7	1
35	Longâ€term changes of polar mesosphere summer echoes at 69Â°N. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,441.	1.2	19
36	MAARSY: The new MST radar on AndÃ¸yaâ€”System description and first results. Radio Science, 2012, 47, .	0.8	74

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37	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
38	First three-dimensional observations of polar mesosphere winter echoes: Resolving space-time ambiguity. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	22
39	Coincident measurements of PMSE and NLC above ALOMAR (69Â° N, 16Â° E) by radar and lidar from 1999â€“2008. Atmospheric Chemistry and Physics, 2011, 11, 1355-1366.	1.9	17
40	Observations of mesospheric ice particles from the ALWIN radar and SOFIE. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 2176-2183.	0.6	8
41	Seasonal and solar activity variability of D-region electron density at 69Â°N. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 925-935.	0.6	19
42	Microphysical parameters of mesospheric ice clouds derived from calibrated observations of polar mesosphere summer echoes at Bragg wavelengths of 2.8 m and 30 cm. Journal of Geophysical Research, 2010, 115, .	3.3	27
43	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
44	Mass analysis of charged aerosol particles in NLC and PMSE during the ECOMA/MASS campaign. Annales Geophysicae, 2009, 27, 1213-1232.	0.6	51
45	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
46	Small-scale structures in neutrals and charged aerosol particles as observed during the ECOMA/MASS rocket campaign. Annales Geophysicae, 2009, 27, 1449-1456.	0.6	18
47	Inter-hemispheric asymmetry in polar mesosphere summer echoes and temperature at 69Â° latitude. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 464-469.	0.6	17
48	Long-term changes of (polar) mesosphere summer echoes. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1571-1576.	0.6	31
49	Calibrated measurements of PMSE strengths at three different locations observed with SKiYMET radars and narrow beam VHF radars. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1807-1813.	0.6	22
50	Radar Backscatter from Underdense Meteors and Diffusion Rates. Earth, Moon and Planets, 2008, 102, 403-409.	0.3	18
51	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
52	A new narrow beam Doppler radar at 3MHz for studies of the high-latitude middle atmosphere. Advances in Space Research, 2008, 41, 1488-1494.	1.2	33
53	Influence of tides and gravity waves on layering processes in the polar summer mesopause region. Annales Geophysicae, 2008, 26, 4013-4022.	0.6	26
54	Simultaneous observations of Polar Mesosphere Summer Echoes at two different latitudes in Antarctica. Annales Geophysicae, 2008, 26, 3783-3792.	0.6	6

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55	Similarities and differences in polar mesosphere summer echoes observed in the Arctic and Antarctica. Annales Geophysicae, 2008, 26, 2795-2806.	0.6	35
56	Observation of polar mesosphere summer echoes with calibrated VHF radars at 69Â° in the Northern and Southern hemispheres. Geophysical Research Letters, 2007, 34, .	1.5	26
57	Radar measurements of turbulence, electron densities, and absolute reflectivities during polar mesosphere winter echoes (PMWE). Advances in Space Research, 2007, 40, 758-764.	1.2	23
58	Radar Backscatter from Underdense Meteors and Diffusion Rates. , 2007, , 403-409.		1
59	Observation and characterization of aerosols above ALOMAR (69 degrees N) by tropospheric lidar, sun-photometer, and VHF radar. , 2006, , .		0
60	The thermal and dynamical state of the atmosphere during polar mesosphere winter echoes. Atmospheric Chemistry and Physics, 2006, 6, 13-24.	1.9	48
61	Rocket measurements of positive ions during polar mesosphere winter echo conditions. Atmospheric Chemistry and Physics, 2006, 6, 5515-5524.	1.9	16
62	Charge and size distribution of mesospheric aerosol particles measured inside NLC and PMSE during MIDAS MaCWAVE 2002. Journal of Atmospheric and Solar-Terrestrial Physics, 2006, 68, 114-123.	0.6	30
63	Simultaneous observation of sodium atoms, NLC and PMSE in the summer mesopause region above ALOMAR, Norway (69Â°N, 12Â°E). Journal of Atmospheric and Solar-Terrestrial Physics, 2006, 68, 93-101.	0.6	26
64	Long-term changes of mesospheric summer echoes at polar and middle latitudes. Journal of Atmospheric and Solar-Terrestrial Physics, 2006, 68, 1940-1951.	0.6	33
65	Mean characteristics of mesosphere winter echoes at mid- and high-latitudes. Journal of Atmospheric and Solar-Terrestrial Physics, 2006, 68, 1087-1104.	0.6	47
66	Measurement of turbulent kinetic energy dissipation rates in the mesosphere by a 3MHz Doppler radar. Advances in Space Research, 2005, 35, 1905-1910.	1.2	16
67	Turbulent energy dissipation rates observed by Doppler MST Radar and by rocket-borne instruments during the MIDAS/MaCWAVE campaign 2002. Annales Geophysicae, 2005, 23, 1147-1156.	0.6	15
68	On the occurrence and formation of multiple layers of polar mesosphere summer echoes. Geophysical Research Letters, 2005, 32, .	1.5	25
69	Tides near the Arctic summer mesopause during the MaCWAVE/MIDAS summer program. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	24
70	High resolution radar observations of the 1999, 2000 and 2001 Leonid meteor storms over middle Europe and Northern Scandinavia. Advances in Space Research, 2004, 33, 1496-1500.	1.2	3
71	The MaCWAVE/MIDAS rocket and ground-based measurements of polar summer dynamics: Overview and mean state structure. Geophysical Research Letters, 2004, 31, .	1.5	55
72	Coordinated investigation of plasma and neutral density fluctuations and particles during the MaCWAVE/MIDAS summer 2002 program. Geophysical Research Letters, 2004, 31, .	1.5	11

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73	Temperature and wind tides around the summer mesopause at middle and arctic latitudes. Advances in Space Research, 2003, 31, 2055-2060.	1.2	54
74	Rocket probing of PMSE and NLC â€" Results from the recent MIDAS/MaCWAVE campaign. Advances in Space Research, 2003, 31, 2061-2067.	1.2	14
75	Seasonal and long-term variations of PMSE from VHF radar observations at Andenes, Norway. Journal of Geophysical Research, 2003, 108, .	3.3	44
76	Measurement of positively and negatively charged particles inside PMSE during MIDAS SOLSTICE 2001. Journal of Geophysical Research, 2003, 108, .	3.3	40
77	Properties of midlatitude mesosphere summer echoes after three seasons of VHF radar observations at 54Â°N. Journal of Geophysical Research, 2003, 108, .	3.3	33
78	PMSE dependence on aerosol charge number density and aerosol size. Journal of Geophysical Research, 2003, 108, .	3.3	44
79	Dregion electron number density limits for the existence of polar mesosphere summer echoes. Journal of Geophysical Research, 2002, 107, ACH 2-1.	3.3	42
80	First common volume observations of layered plasma structures and polar mesospheric summer echoes by rocket and radar. Geophysical Research Letters, 2001, 28, 1419-1422.	1.5	62
81	Rocket probe observations of electric field irregularities in the polar summer mesosphere. Geophysical Research Letters, 2001, 28, 1431-1434.	1.5	19
82	Multi-beam radar observations of polar mesosphere summer echoes during the MIDAS/DROPPS/MiniDUSTY campaign at Andenes, Norway in July 1999. Advances in Space Research, 2001, 28, 1065-1070.	1.2	2
83	Dependence of polar mesosphere summer echoes on solar and geomagnetic activity. Advances in Space Research, 2001, 28, 1071-1076.	1.2	17
84	Mesosphere summer echoes as observed by VHF radar at KÃ¼hlungsborn (54Â°N). Geophysical Research Letters, 1999, 26, 1533-1536.	1.5	22
85	MAARSY â€“ the new MST radar on AndÃ¸ya/Norway. Advances in Radio Science, 0, 8, 219-224.	0.7	22
86	Multi beam observations of cosmic radio noise using a VHF radar with beam forming by a Butler matrix. Advances in Radio Science, 0, 9, 349-357.	0.7	5
87	New experiments to validate the radiation pattern of the Middle Atmosphere Alomar Radar System (MAARSY). Advances in Radio Science, 0, 11, 283-289.	0.7	11
88	Validation of the radiation pattern of the Middle Atmosphere Alomar Radar System (MAARSY). Advances in Radio Science, 0, 10, 245-253.	0.7	6
89	Horizontally resolved structures of radar backscatter from polar mesospheric layers. Advances in Radio Science, 0, 10, 285-290.	0.7	7
90	MAARSY â€“ the new MST radar on AndÃ¸ya: first results of spaced antenna and Doppler measurements of atmospheric winds in the troposphere and mesosphere using a partial array. Advances in Radio Science, 0, 10, 291-298.	0.7	17

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91	Occurrence frequencies of polar mesosphere summer echoes observed at 69Â° N during a full solar cycle. Advances in Radio Science, 0, 11, 327-332.	0.7	2
92	Geometric considerations of polar mesospheric summer echoes in tilted beams using coherent radar imaging. Advances in Radio Science, 0, 12, 197-203.	0.7	6
93	Validation of the radiation pattern of the VHF MST radar MAARSY by scattering off a sounding rocket's payload. Advances in Radio Science, 0, 13, 41-48.	0.7	2
94	D region observations by VHF and HF radars during a rocket campaign at AndÃ¸ya dedicated to investigations of PMWE. Advances in Radio Science, 0, 17, 225-237.	0.7	5