

Alain Hauchecorne

List of Publications by Year in descending order

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268

papers

8,991

citations

47006

47

h-index

64796

79

g-index

332

all docs

332

docs citations

332

times ranked

4352

citing authors

#	ARTICLE	IF	CITATIONS
1	Density and temperature profiles obtained by lidar between 35 and 70 km. Geophysical Research Letters, 1980, 7, 565-568.	4.0	397
2	The OSIRIS instrument on the Odin spacecraft. Canadian Journal of Physics, 2004, 82, 411-422.	1.1	349
3	Major influence of tropical volcanic eruptions on the stratospheric aerosol layer during the last decade. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	303
4	Complex organic matter in Titan's atmospheric aerosols from in situ pyrolysis and analysis. Nature, 2005, 438, 796-799.	27.8	228
5	A Doppler lidar for measuring winds in the middle atmosphere. Geophysical Research Letters, 1989, 16, 1273-1276.	4.0	194
6	Climatology and trends of the middle atmospheric temperature (33â€“87 km) as seen by Rayleigh lidar over the south of France. Journal of Geophysical Research, 1991, 96, 15297-15309.	3.3	171
7	Mesospheric temperature inversion and gravity wave breaking. Geophysical Research Letters, 1987, 14, 933-936.	4.0	170
8	A warm layer in Venus' cryosphere and high-altitude measurements of HF, HCl, H ₂ O and HDO. Nature, 2007, 450, 646-649.	27.8	161
9	SPICAV on Venus Express: Three spectrometers to study the global structure and composition of the Venus atmosphere. Planetary and Space Science, 2007, 55, 1673-1700.	1.7	160
10	Lidar observation of gravity and tidal waves in the stratosphere and mesosphere. Journal of Geophysical Research, 1981, 86, 9715-9721.	3.3	149
11	Gravity waves in the middle atmosphere observed by Rayleigh lidar: 2. Climatology. Journal of Geophysical Research, 1991, 96, 5169-5183.	3.3	144
12	COMOS on Envisat: an overview. Advances in Space Research, 2004, 33, 1020-1028.	2.6	142
13	Solar proton events of Octoberâ€“November 2003: Ozone depletion in the Northern Hemisphere polar winter as seen by GOMOS/Envisat. Geophysical Research Letters, 2004, 31, .	4.0	141
14	Midlatitude long-term variability of the middle atmosphere: Trends and cyclic and episodic changes. Journal of Geophysical Research, 1995, 100, 18887.	3.3	123
15	Quantification of the transport of chemical constituents from the polar vortex to midlatitudes in the lower stratosphere using the high-resolution advection model MIMOSA and effective diffusivity. Journal of Geophysical Research, 2002, 107, SOL 32-1.	3.3	121
16	Rotational Raman lidar to measure the atmospheric temperature from the ground to 30 km. IEEE Transactions on Geoscience and Remote Sensing, 1993, 31, 90-101.	6.3	118
17	Global ozone monitoring by occultation of stars: an overview of GOMOS measurements on ENVISAT. Atmospheric Chemistry and Physics, 2010, 10, 12091-12148.	4.9	102
18	VEGA 1 and VEGA 2 entry probes: An investigation of local UV absorption (220-400 nm) in the atmosphere of Venus (SO ₂ aerosols, cloud structure). Journal of Geophysical Research, 1996, 101, 12709-12745.	3.3	100

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19	Rayleigh-Mie Doppler wind lidar for atmospheric measurements I Instrumental setup, validation, and first climatological results. Applied Optics, 1999, 38, 2410.	2.1	95
20	Ozone and temperature trends in the upper stratosphere at five stations of the Network for the Detection of Atmospheric Composition Change. International Journal of Remote Sensing, 2009, 30, 3875-3886.	2.9	94
21	A Critical Review of the Database Acquired for the Long-Term Surveillance of the Middle Atmosphere by the French Rayleigh Lidars. Journal of Atmospheric and Oceanic Technology, 1993, 10, 850-867.	1.3	90
22	Stratospheric Smoke With Unprecedentedly High Backscatter Observed by Lidars Above Southern France. Geophysical Research Letters, 2018, 45, 1639-1646.	4.0	90
23	Gravity waves in the middle atmosphere observed by Rayleigh lidar: 1. Case studies. Journal of Geophysical Research, 1991, 96, 5153-5167.	3.3	89
24	Comparison of co-located independent ground-based middle atmospheric wind and temperature measurements with numerical weather prediction models. Journal of Geophysical Research D: Atmospheres, 2015, 120, 8318-8331.	3.3	85
25	Cirrus climatological results from lidar measurements at OHP (44°N, 6°E). Geophysical Research Letters, 2001, 28, 1687-1690.	4.0	83
26	Temperature climatology of the middle atmosphere from long-term lidar measurements at middle and low latitudes. Journal of Geophysical Research, 1998, 103, 17191-17204.	3.3	81
27	Review of ozone and temperature lidar validations performed within the framework of the Network for the Detection of Stratospheric Change. Journal of Environmental Monitoring, 2004, 6, 721.	2.1	80
28	Recent observations of mesospheric temperature inversions. Journal of Geophysical Research, 1997, 102, 19471-19482.	3.3	78
29	Methodology for the independent calibration of Raman backscatter water-vapor lidar systems. Applied Optics, 1999, 38, 5816.	2.1	77
30	Maïdo observatory: a new high-altitude station facility at Reunion Island (21° S, 55° E) for long-term atmospheric remote sensing and in situ measurements. Atmospheric Measurement Techniques, 2013, 6, 2865-2877.	3.1	74
31	Evaluation of optimization of lidar temperature analysis algorithms using simulated data. Journal of Geophysical Research, 1998, 103, 6177-6187.	3.3	72
32	The 11-year solar-cycle effects on the temperature in the upper-stratosphere and mesosphere: Part I - Assessment of observations. Journal of Atmospheric and Solar-Terrestrial Physics, 2005, 67, 940-947.	1.6	72
33	Retrieval of atmospheric parameters from GOMOS data. Atmospheric Chemistry and Physics, 2010, 10, 11881-11903.	4.9	71
34	Stratosphere temperature measurement using Raman lidar. Applied Optics, 1990, 29, 5182.	2.1	67
35	Evaluation of NMC Upper-Stratospheric Temperature Analyses Using Rocketsonde and Lidar Data. Bulletin of the American Meteorological Society, 1993, 74, 789-799.	3.3	67
36	First results on GOMOS/ENVISAT. Advances in Space Research, 2004, 33, 1029-1035.	2.6	66

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37	Large increase of NO ₂ in the north polar mesosphere in January–February 2004: Evidence of a dynamical origin from GOMOS/ENVISAT and SABER/TIMED data. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	66
38	SOLAR-ISS: A new reference spectrum based on SOLAR/SOLSPEC observations. <i>Astronomy and Astrophysics</i> , 2018, 611, A1.	5.1	66
39	Validation of UARS Microwave Limb Sounder temperature and pressure measurements. <i>Journal of Geophysical Research</i> , 1996, 101, 9983-10016.	3.3	61
40	The study of the martian atmosphere from top to bottom with SPICAM light on mars express. <i>Planetary and Space Science</i> , 2000, 48, 1303-1320.	1.7	61
41	Stratospheric and mesospheric cooling trend estimates from u.s. rocketsondes at low latitude stations (8°S–34°N), taking into account instrumental changes and natural variability. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1999, 61, 447-459.	1.6	60
42	Implementation and validation of a Raman lidar measurement of middle and upper tropospheric water vapor. <i>Applied Optics</i> , 1999, 38, 5838.	2.1	60
43	Influence of Venus topography on the zonal wind and UV albedo at cloud top level: The role of stationary gravity waves. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1087-1101.	3.6	60
44	Validation of temperature measurements from the Halogen Occultation Experiment. <i>Journal of Geophysical Research</i> , 1996, 101, 10277-10285.	3.3	59
45	Longitudinal structure in atomic oxygen concentrations observed with WINDII on UARS. <i>Geophysical Research Letters</i> , 1993, 20, 1303-1306.	4.0	57
46	Nighttime ozone profiles in the stratosphere and mesosphere by the Global Ozone Monitoring by Occultation of Stars on Envisat. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	55
47	GOMOS O ₃ , NO ₂ , and NO ₃ observations in 2002–2008. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7723-7738.	4.9	55
48	Variability and evolution of the midlatitude stratospheric aerosol budget from 22 years of ground-based lidar and satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 1829-1845.	4.9	55
49	Semidiurnal and diurnal temperature tides (30-55 km): Climatology and effect on UARS-LIDAR data comparisons. <i>Journal of Geophysical Research</i> , 1996, 101, 10299-10310.	3.3	52
50	Harmonized dataset of ozone profiles from satellite limb and occultation measurements. <i>Earth System Science Data</i> , 2013, 5, 349-363.	9.9	52
51	First simultaneous global measurements of nighttime stratospheric NO ₂ and NO ₃ observed by Global Ozone Monitoring by Occultation of Stars (GOMOS)/Envisat in 2003. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	50
52	Accuracy and precision of cryogenic limb array etalon spectrometer (CLAES) temperature retrievals. <i>Journal of Geophysical Research</i> , 1996, 101, 9583-9601.	3.3	49
53	Midlatitude lidar observations of planetary waves in the middle atmosphere during the winter of 1981–1982. <i>Journal of Geophysical Research</i> , 1983, 88, 3843-3849.	3.3	47
54	Semidiurnal and diurnal tidal effects in the middle atmosphere as seen by Rayleigh lidar. <i>Journal of Geophysical Research</i> , 1991, 96, 7579-7587.	3.3	47

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55	Intercomparison of density and temperature profiles obtained by lidar, ionization gauges, falling spheres, datasondes and radiosondes during the DYANA campaign. Journal of Atmospheric and Solar-Terrestrial Physics, 1994, 56, 1969-1984.	0.9	47
56	Toward an Improved Representation of Middle Atmospheric Dynamics Thanks to the ARISE Project. Surveys in Geophysics, 2018, 39, 171-225.	4.6	47
57	Investigations on long-term temperature changes in the upper stratosphere using lidar data and NCEP analyses. Journal of Geophysical Research, 2001, 106, 7937-7944.	3.3	46
58	LIDAR monitoring of the temperature in the middle and lower atmosphere. Applied Physics B, Photophysics and Laser Chemistry, 1992, 55, 29-34.	1.5	45
59	Gravity wave spectra in the middle atmosphere as observed by Rayleigh lidar. Geophysical Research Letters, 1990, 17, 1585-1588.	4.0	43
60	Stratospheric temperature measurements by two collocated NDSC lidars during UARS validation campaign. Journal of Geophysical Research, 1996, 101, 10287-10297.	3.3	43
61	GOMOS data characterisation and error estimation. Atmospheric Chemistry and Physics, 2010, 10, 9505-9519.	4.9	43
62	A 2d dynamical model of mesospheric temperature inversions in winter. Geophysical Research Letters, 1990, 17, 2197-2200.	4.0	41
63	Solstitial Temperature Inversions in the Martian Middle Atmosphere: Observational Clues and 2-D Modeling. Icarus, 1993, 105, 512-528.	2.5	41
64	Vertical structure of the midlatitude temperature from stratosphere to mesopause (30-105 km). Geophysical Research Letters, 1995, 22, 377-380.	4.0	41
65	Measurements of Humidity in the Atmosphere and Validation Experiments (MOHAVE)-2009: overview of campaign operations and results. Atmospheric Measurement Techniques, 2011, 4, 2579-2605.	3.1	41
66	Long period/large scale oscillations of temperature during the DYANA campaign. Journal of Atmospheric and Solar-Terrestrial Physics, 1994, 56, 1675-1700.	0.9	39
67	Long-term variation of the temperature of the middle atmosphere at mid-latitude: dynamical and radiative causes. Journal of Geophysical Research, 1987, 92, 10933-10941.	3.3	38
68	Mesospheric inversions and their relationship to planetary wave structure. Journal of Geophysical Research, 2002, 107, ACL 4-1.	3.3	38
69	A global climatology of the mesospheric sodium layer from GOMOS data during the 2002-2008 period. Atmospheric Chemistry and Physics, 2010, 10, 9225-9236.	4.9	35
70	Vertical distribution of gravity wave potential energy from long-term Rayleigh lidar data at a northern middle-latitude site. Journal of Geophysical Research D: Atmospheres, 2014, 119, 12,069.	3.3	35
71	Rayleigh lidar observation of a warm stratopause over a tropical site, Gadanki (13.5° N; 79.2° E). Atmospheric Chemistry and Physics, 2004, 4, 1989-1996.	4.9	34
72	Examination of the 2002 major warming in the southern hemisphere using ground-based and Odin/SMR assimilated data: stratospheric ozone distributions and tropic/mid-latitude exchange. Canadian Journal of Physics, 2007, 85, 1287-1300.	1.1	34

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73	An evaluation of uncertainties in monitoring middle atmosphere temperatures with the ground-based lidar network in support of space observations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 627-642.	1.6	34
74	Influence of scintillation on quality of ozone monitoring by GOMOS. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 9197-9207.	4.9	33
75	Picard SODISM, a Space Telescope to Study the Sun from the Middle Ultraviolet to the Near Infrared. <i>Solar Physics</i> , 2014, 289, 1043-1076.	2.5	33
76	The use of the 1.27 μm O ₂ absorption band for greenhouse gas monitoring from space and application to MicroCarb. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 3329-3374.	3.1	33
77	Forecast and simulation of stratospheric ozone filaments: A validation of a high-resolution potential vorticity advection model by airborne ozone lidar measurements in winter 1998/1999. <i>Journal of Geophysical Research</i> , 2001, 106, 20011-20024.	3.3	32
78	Coherence of long-term stratospheric ozone vertical distribution time series used for the study of ozone recovery at a northern mid-latitude station. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4957-4975.	4.9	32
79	Seasonal variation of gravity wave activity at midlatitudes from 7 years of COSMIC GPS and Rayleigh lidar temperature observations. <i>Geophysical Research Letters</i> , 2015, 42, 1251-1258.	4.0	32
80	Mesospheric temperature inversions as seen by ISAMS in December 1991. <i>Geophysical Research Letters</i> , 1995, 22, 1485-1488.	4.0	31
81	Influence of polar ozone loss on northern midlatitude regions estimated by a high-resolution chemistry transport model during winter 1999/2000. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	31
82	Indications of thin cirrus clouds in the stratosphere at mid-latitudes. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 3407-3414.	4.9	31
83	Polar vortex evolution during the 2002 Antarctic major warming as observed by the Odin satellite. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	31
84	Optical extinction by upper tropospheric/stratospheric aerosols and clouds: GOMOS observations for the period 2002–2008. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7997-8009.	4.9	31
85	Comparison of stratospheric temperatures from several lidars, using National Meteorological Center and microwave limb sounder data as transfer references. <i>Journal of Geophysical Research</i> , 1995, 100, 11105.	3.3	30
86	Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 2002, 43, 175-194.	3.2	30
87	On the vertical structure of the stratosphere at midlatitudes during the first stage of the polar vortex formation and in the polar region in the presence of a large mesospheric descent. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	30
88	Mesospheric temperature from UARS MLS: retrieval and validation. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2003, 65, 245-267.	1.6	29
89	Validation of the self-consistency of GOMOS NO ₃ , NO ₂ and O ₃ data using chemical data assimilation. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	29
90	Spatio-temporal observations of the tertiary ozone maximum. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 4439-4445.	4.9	29

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91	Multiple symptoms of total ozone recovery inside the Antarctic vortex during austral spring. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7557-7572.	4.9	29
92	Contribution of stratospheric warmings to temperature trends in the middle atmosphere from the lidar series obtained at Haute-Provence Observatory (44°N). <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	28
93	An unusual stratospheric ozone decrease in the Southern Hemisphere subtropics linked to isentropic air-mass transport as observed over Irene (25.5° S, 28.1° E) in mid-May 2002. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1927-1936.	4.9	27
94	Fine-scale study of a thick stratospheric ozone lamina at the edge of the southern subtropical barrier. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	26
95	Global measurement of the mesospheric sodium layer by the star occultation instrument GOMOS. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	26
96	Cirrus Classification at Midlatitude from Systematic Lidar Observations. <i>Journal of Applied Meteorology and Climatology</i> , 2006, 45, 249-258.	1.5	26
97	Response of tropical stratospheric O ₃ , NO ₂ and NO ₃ to the equatorial Quasi-Biennial Oscillation and to temperature as seen from GOMOS/ENVISAT. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8873-8879.	4.9	26
98	Evidence for long-lived polar vortex air in the mid-latitude summer stratosphere from in situ laser diode CH ₄ and H ₂ O measurements. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 1467-1472.	4.9	25
99	Impact of Antarctic polar vortex occurrences on total ozone and UVB radiation at southern Argentinean and Antarctic stations during 1997–2003 period. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	25
100	Seasonal oscillations of middle atmosphere temperature observed by Rayleigh lidars and their comparisons with TIMED/SABER observations. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	25
101	Characteristics of stratospheric warming events during Northern winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 5368-5380.	3.3	25
102	LIDAR observations of lower stratospheric aerosols over South Africa linked to large scale transport across the southern subtropical barrier. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2003, 65, 707-715.	1.6	23
103	Model Simulations of the Impact of the 2002 Antarctic Ozone Hole on the Midlatitudes. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 871-884.	1.7	23
104	Global analysis of scintillation variance: Indication of gravity wave breaking in the polar winter upper stratosphere. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	23
105	Dynamical amplification of the stratospheric solar response simulated with the Chemistry-Climate Model LMDz-Reprobus. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 75-76, 147-160.	1.6	22
106	Impact of land convection on temperature diurnal variation in the tropical lower stratosphere inferred from COSMIC GPS radio occultations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 6391-6402.	4.9	22
107	A mid-latitude ground-based lidar study of stratospheric warmings and planetary wave propagation. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1982, 44, 577-583.	0.9	21
108	Postmillennium changes in stratospheric temperature consistently resolved by GPS radio occultation and AMSU observations. <i>Geophysical Research Letters</i> , 2017, 44, 7510-7518.	4.0	21

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109	Retrievals from GOMOS stellar occultation measurements using characterization of modeling errors. Atmospheric Measurement Techniques, 2010, 3, 1019-1027.	3.1	21
110	Influence of Arctic polar ozone depletion on lower stratospheric ozone amounts at Haute-Provence Observatory (43.92°N, 5.71°E). Journal of Geophysical Research, 2002, 107, SOL 14-1.	3.3	20
111	Evidence of tidal perturbations in the middle atmosphere over Southern Tropics as deduced from LIDAR data analyses. Journal of Atmospheric and Solar-Terrestrial Physics, 2002, 64, 1979-1988.	1.6	20
112	A 2003 stratospheric aerosol extinction and PSC climatology from GOMOS measurements on Envisat. Atmospheric Chemistry and Physics, 2005, 5, 2413-2417.	4.9	20
113	Comparison of polar ozone loss rates simulated by one-dimensional and three-dimensional models with Match observations in recent Antarctic and Arctic winters. Journal of Geophysical Research, 2007, 112, .	3.3	20
114	The Plate Scale of the SODISM Instrument and the Determination of the Solar Radius at 607.1 nm. Solar Physics, 2014, 289, 1-10.	2.5	20
115	Lidar temperature series in the middle atmosphere as a reference data set – Part 1: Improved retrievals and a 20-year cross-validation of two co-located French lidars. Atmospheric Measurement Techniques, 2018, 11, 5531-5547.	3.1	20
116	Variability of mesospheric CO in the fall and winter as observed with ground-based microwave radiometry at 115 GHz. Journal of Geophysical Research, 1995, 100, 14125.	3.3	19
117	Effect of periodic horizontal gradients on the retrieval of atmospheric profiles from occultation measurements. Radio Science, 1997, 32, 469-478.	1.6	19
118	Assimilation of Odin/SMR O3 and N2O measurements in a three-dimensional chemistry transport model. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	19
119	The effect of the 11-year solar-cycle on the temperature in the upper-stratosphere and mesosphere: Part II numerical simulations and the role of planetary waves. Journal of Atmospheric and Solar-Terrestrial Physics, 2005, 67, 948-958.	1.6	19
120	High resolution simulation of recent Arctic and Antarctic stratospheric chemical ozone loss compared to observations. Journal of Atmospheric Chemistry, 2006, 55, 205-226.	3.2	19
121	Evaluation of balloon and satellite water vapour measurements in the Southern tropical and subtropical UTLS during the HIBISCUS campaign. Atmospheric Chemistry and Physics, 2009, 9, 5299-5319.	4.9	19
122	Variability in Antarctic ozone loss in the last decade (2004–2013): high-resolution simulations compared to Aura MLS observations. Atmospheric Chemistry and Physics, 2015, 15, 10385-10397.	4.9	19
123	Remote sensing measurements in the polar vortex: Comparison to in situ observations and implications for the simultaneous retrievals and analysis of the NO ₂ and OClO species. Journal of Geophysical Research, 2007, 112, .	3.3	18
124	First climatology of polar mesospheric clouds from GOMOS/ENVISAT stellar occultation instrument. Atmospheric Chemistry and Physics, 2010, 10, 2723-2735.	4.9	18
125	An overview of the HIBISCUS campaign. Atmospheric Chemistry and Physics, 2011, 11, 2309-2339.	4.9	18
126	Doppler lidar at Observatoire de Haute-Provence for wind profiling up to 75 km altitude: performance evaluation and observations. Atmospheric Measurement Techniques, 2020, 13, 1501-1516.	3.1	18

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127	Investigation of the tidal variations in a 3-D dynamics-chemistry-transport model of the middle atmosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2004, 66, 251-265.	1.6	17
128	A global OCLO stratospheric layer discovered in GOMOS stellar occultation measurements. Geophysical Research Letters, 2006, 33, .	4.0	17
129	ON THE CONSTANCY OF THE DIAMETER OF THE SUN DURING THE RISING PHASE OF SOLAR CYCLE 24. Astrophysical Journal, 2015, 808, 4.	4.5	17
130	Regional and seasonal stratospheric temperature trends in the last decade (2002â€“2014) from AMSU observations. Journal of Geophysical Research D: Atmospheres, 2016, 121, 8172-8185.	3.3	17
131	Middle Atmosphere Variability and Model Uncertainties as Investigated in the Framework of the ARISE Project. , 2019, , 845-887.		17
132	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
133	Data assimilation of stratospheric ozone using a high-resolution transport model. Geophysical Research Letters, 2002, 29, 19-1-19-4.	4.0	16
134	Crossâ€validation of Advanced Microwave Sounding Unit and lidar for longâ€term upperâ€stratospheric temperature monitoring. Journal of Geophysical Research, 2008, 113, .	3.3	16
135	Measurements of gravity wave activity in the lower stratosphere by Doppler lidar. Journal of Geophysical Research, 2001, 106, 7879-7890.	3.3	15
136	Methodological uncertainties in multi-regression analyses of middle-atmospheric data series. Journal of Environmental Monitoring, 2006, 8, 682.	2.1	15
137	Simultaneous measurements of OCLO, NO<sub>2</sub> and O<sub>3</sub> in the Arctic polar vortex by the GOMOS instrument. Atmospheric Chemistry and Physics, 2009, 9, 7857-7866.	4.9	15
138	Middle atmosphere temperature trend and solar cycle revealed by long-term Rayleigh lidar observations. Journal of Geophysical Research, 2011, 116, .	3.3	15
139	Analysis of a rapid increase of stratospheric ozone during late austral summer 2008 over Kerguelen (49.4Â° S, 70.3Â° E). Atmospheric Chemistry and Physics, 2011, 11, 363-373.	4.9	15
140	SOLAR RADIUS DETERMINATION FROM SODISM/PICARD AND HMI/SDO</i> OBSERVATIONS OF THE DECREASE OF THE SPECTRAL SOLAR RADIANCE DURING THE 2012 JUNE VENUS TRANSIT. Astrophysical Journal, 2014, 783, 127.	4.5	15
141	Water vapor observations up to the lower stratosphere through the Raman lidar during the MaÃ~do Lidar Calibration Campaign. Atmospheric Measurement Techniques, 2015, 8, 1425-1445.	3.1	15
142	Solar Irradiance from 165 to 400 nm in 2008 and UV Variations in Three Spectral Bands During Solar Cycle 24. Solar Physics, 2016, 291, 3527-3547.	2.5	15
143	Complex organic matter in Titan's aerosols? (Reply). Nature, 2006, 444, E6-E7.	27.8	14
144	Temperature trends in the middle atmosphere as seen by historical Russian rocket launches: Part 1, Volgograd (48.68Â°N, 44.35Â°E). Journal of Atmospheric and Solar-Terrestrial Physics, 2006, 68, 1075-1086.	1.6	14

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145	Temperature retrieval from stratospheric O ₃ and NO ₃ GOMOS data. Geophysical Research Letters, 2007, 34, .	4.0	14
146	On the Determination and Constancy of the Solar Oblateness. Solar Physics, 2015, 290, 673-687.	2.5	14
147	WIRA-C: a compact 142-GHz-radiometer for continuous middle-atmospheric wind measurements. Atmospheric Measurement Techniques, 2018, 11, 5007-5024.	3.1	14
148	UVSQ-SAT, a Pathfinder CubeSat Mission for Observing Essential Climate Variables. Remote Sensing, 2020, 12, 92.	4.0	14
149	Recent lidar developments to monitor stratosphere-troposphere exchange. Journal of Atmospheric and Solar-Terrestrial Physics, 1994, 56, 1073-1081.	0.9	13
150	Analysis of gravity waves in the tropical middle atmosphere over La Reunion Island (21°S, 55°E) with lidar using wavelet techniques. Annales Geophysicae, 2000, 18, 485-498.	1.6	13
151	The effect of the 11-year solar-cycle on the temperature in the upper-stratosphere and mesosphere—Part III: Investigations of zonal asymmetry. Journal of Atmospheric and Solar-Terrestrial Physics, 2006, 68, 1591-1599.	1.6	13
152	Mid-latitude ozone monitoring with the GOMOS-ENVISAT experiment version 5: the noise issue. Atmospheric Chemistry and Physics, 2010, 10, 11839-11849.	4.9	13
153	Isentropic modeling of a cirrus cloud event observed in the midlatitude upper troposphere and lower stratosphere. Journal of Geophysical Research, 2010, 115, .	3.3	13
154	Tidal effects on stratospheric temperature series derived from successive advanced microwave sounding units. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 477-483.	2.7	13
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