# Alain Hauchecorne

List of Publications by Year
in descending order



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|---|---|---|---|
| 268 papers | 8,991 citations | 47004<br>47 h-index | 64791<br>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, H2O 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 | GOMOS 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 (SO2aerosols, cloud structure). Journal of Geophysical Research, 1996, 101, 12709-12745. | 3.3 | 100 |

| # | Article | IF | Citations |
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| 19 | Rayleighâ€“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 coâ€located independent groundâ€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 (44Â°N, 6Â°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 | MaÃ¯do observatory: a new high-altitude station facility at Reunion Island (21Â° S, 55Â° 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 Iâ€"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 NO2in the north polar mesosphere in Januaryâ€"February 2004: Evidence of a dynamical origin from GOMOS/ENVISAT and SABER/TIMED data. Geophysical Research Letters, 2007, 34, . | 4.0 | 66 |
| 38 | SOLAR-ISS: A new reference spectrum based on SOLAR/SOLSPEC observations. Astronomy and Astrophysics, 2018, 611, A1. | 5.1 | 66 |
| 39 | Validation of UARS Microwave Limb Sounder temperature and pressure measurements. Journal of Geophysical Research, 1996, 101, 9983-10016. | 3.3 | 61 |
| 40 | The study of the martian atmosphere from top to bottom with SPICAM light on mars express. Planetary and Space Science, 2000, 48, 1303-1320. | 1.7 | 61 |
| 41 | Stratospheric and mesospheric cooling trend estimates from u.s. rocketsondes at low latitude stations (8Â°Sâ€"34Â°N), taking into account instrumental changes and natural variability. Journal of Atmospheric and Solar-Terrestrial Physics, 1999, 61, 447-459. | 1.6 | 60 |
| 42 | Implementation and validation of a Raman lidar measurement of middle and upper tropospheric water vapor. Applied Optics, 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. Journal of Geophysical Research E: Planets, 2016, 121, 1087-1101. | 3.6 | 60 |
| 44 | Validation of temperature measurements from the Halogen Occultation Experiment. Journal of Geophysical Research, 1996, 101, 10277-10285. | 3.3 | 59 |
| 45 | Longitudinal structure in atomic oxygen concentrations observed with WINDII on UARS. Geophysical Research Letters, 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. Journal of Geophysical Research, 2006, 111, . | 3.3 | 55 |
| 47 | GOMOS O<sub>3</sub>, NO<sub>2</sub>, and NO<sub>3</sub> observations in 2002â€"2008. Atmospheric Chemistry and Physics, 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. Atmospheric Chemistry and Physics, 2017, 17, 1829-1845. | 4.9 | 55 |
| 49 | Semidiurnal and diurnal temperature tides (30-55 km): Climatology and effect on UARS-LIDAR data comparisons. Journal of Geophysical Research, 1996, 101, 10299-10310. | 3.3 | 52 |
| 50 | Harmonized dataset of ozone profiles from satellite limb and occultation measurements. Earth System Science Data, 2013, 5, 349-363. | 9.9 | 52 |
| 51 | First simultaneous global measurements of nighttime stratospheric NO2and NO3observed by Global Ozone Monitoring by Occultation of Stars (GOMOS)/Envisat in 2003. Journal of Geophysical Research, 2005, 110, . | 3.3 | 50 |
| 52 | Accuracy and precision of cryogenic limb array etalon spectrometer (CLAES) temperature retrievals. Journal of Geophysical Research, 1996, 101, 9583-9601. | 3.3 | 49 |
| 53 | Midâ€latitude lidar observations of planetary waves in the middle atmosphere during the winter of 1981â€"1982. Journal of Geophysical Research, 1983, 88, 3843-3849. | 3.3 | 47 |
| 54 | Semidiurnal and diurnal tidal effects in the middle atmosphere as seen by Rayleigh lidar. Journal of Geophysical Research, 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 2â€d 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 | Longâ€term variation of the temperature of the middle atmosphere at midâ€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 2002â€"2008 period. Atmospheric Chemistry and Physics, 2010, 10, 9225-9236. | 4.9 | 35 |
| 70 | Vertical distribution of gravity wave potential energy from longâ€term Rayleigh lidar data at a northern middleâ€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 (13.5Â° N; 79.2Â° 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. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 627-642. | 1.6 | 34 |
| 74 | Influence of scintillation on quality of ozone monitoring by GOMOS. Atmospheric Chemistry and Physics, 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. Solar Physics, 2014, 289, 1043-1076. | 2.5 | 33 |
| 76 | The use of the 1.27â€‰Âµm O<sub>2</sub> absorption band for greenhouse gas monitoring from space and application to MicroCarb. Atmospheric Measurement Techniques, 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. Journal of Geophysical Research, 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. Atmospheric Chemistry and Physics, 2011, 11, 4957-4975. | 4.9 | 32 |
| 79 | Seasonal variation of gravity wave activity at midlatitudes from 7â€‰years of COSMIC GPS and Rayleigh lidar temperature observations. Geophysical Research Letters, 2015, 42, 1251-1258. | 4.0 | 32 |
| 80 | Mesospheric temperature inversions as seen by ISAMS in December 1991. Geophysical Research Letters, 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. Journal of Geophysical Research, 2003, 108, . | 3.3 | 31 |
| 82 | Indications of thin cirrus clouds in the stratosphere at mid-latitudes. Atmospheric Chemistry and Physics, 2005, 5, 3407-3414. | 4.9 | 31 |
| 83 | Polar vortex evolution during the 2002 Antarctic major warming as observed by the Odin satellite. Journal of Geophysical Research, 2005, 110, . | 3.3 | 31 |
| 84 | Optical extinction by upper tropospheric/stratospheric aerosols and clouds: GOMOS observations for the period 2002â€“2008. Atmospheric Chemistry and Physics, 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. Journal of Geophysical Research, 1995, 100, 11105. | 3.3 | 30 |
| 86 | Title is missing!. Journal of Atmospheric Chemistry, 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. Journal of Geophysical Research, 2006, 111, . | 3.3 | 30 |
| 88 | Mesospheric temperature from UARS MLS: retrieval and validation. Journal of Atmospheric and Solar-Terrestrial Physics, 2003, 65, 245-267. | 1.6 | 29 |
| 89 | Validation of the self-consistency of GOMOS NO3, NO2and O3data using chemical data assimilation. Geophysical Research Letters, 2004, 31, n/a-n/a. | 4.0 | 29 |
| 90 | Spatio-temporal observations of the tertiary ozone maximum. Atmospheric Chemistry and Physics, 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. Atmospheric Chemistry and Physics, 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 Hauteâ€Provence Observatory (44Â°N). Journal of Geophysical Research, 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 (25.5Â° S, 28.1Â° E) in mid-May 2002. Atmospheric Chemistry and Physics, 2006, 6, 1927-1936. | 4.9 | 27 |
| 94 | Fineâ€scale study of a thick stratospheric ozone lamina at the edge of the southern subtropical barrier. Journal of Geophysical Research, 2003, 108, . | 3.3 | 26 |
| 95 | Global measurement of the mesospheric sodium layer by the star occultation instrument GOMOS. Geophysical Research Letters, 2004, 31, . | 4.0 | 26 |
| 96 | Cirrus Classification at Midlatitude from Systematic Lidar Observations. Journal of Applied Meteorology and Climatology, 2006, 45, 249-258. | 1.5 | 26 |
| 97 | Response of tropical stratospheric O<sub>3</sub>, NO<sub>2</sub> and NO<sub>3</sub> to the equatorial Quasi-Biennial Oscillation and to temperature as seen from GOMOS/ENVISAT. Atmospheric Chemistry and Physics, 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<sub>4</sub> and H<sub>2</sub>O measurements. Atmospheric Chemistry and Physics, 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 1997â€“2003 period. Journal of Geophysical Research, 2005, 110, . | 3.3 | 25 |
| 100 | Seasonal oscillations of middle atmosphere temperature observed by Rayleigh lidars and their comparisons with TIMED/SABER observations. Journal of Geophysical Research, 2009, 114, . | 3.3 | 25 |
| 101 | Characteristics of stratospheric warming events during Northern winter. Journal of Geophysical Research D: Atmospheres, 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. Journal of Atmospheric and Solar-Terrestrial Physics, 2003, 65, 707-715. | 1.6 | 23 |
| 103 | Model Simulations of the Impact of the 2002 Antarctic Ozone Hole on the Midlatitudes. Journals of the Atmospheric Sciences, 2005, 62, 871-884. | 1.7 | 23 |
| 104 | Global analysis of scintillation variance: Indication of gravity wave breaking in the polar winter upper stratosphere. Geophysical Research Letters, 2007, 34, . | 4.0 | 23 |
| 105 | Dynamical amplification of the stratospheric solar response simulated with the Chemistry-Climate Model LMDz-Reprobus. Journal of Atmospheric and Solar-Terrestrial Physics, 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. Atmospheric Chemistry and Physics, 2013, 13, 6391-6402. | 4.9 | 22 |
| 107 | A mid-latitude ground-based lidar study of stratospheric warmings and planetary wave propagation. Journal of Atmospheric and Solar-Terrestrial Physics, 1982, 44, 577-583. | 0.9 | 21 |
| 108 | Postmillennium changes in stratospheric temperature consistently resolved by GPS radio occultation and AMSU observations. Geophysical Research Letters, 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 (43.92Â°N, 5.71Â°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 â€“ 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 O3and 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 (2004â€“2013): high-resolution simulations compared to Aura MLS observations. Atmospheric Chemistry and Physics, 2015, 15, 10385-10397. | 4.9 | 19 |
| 123 | Remoteâ€sensing measurements in the polar vortex: Comparison to in situ observations and implications for the simultaneous retrievals and analysis of the NO<sub>2</sub> 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 75â€‰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/<i>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<sub>3</sub> and NO<sub>3</sub> 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 stratosphereâ€"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 (21Â°S, 55Â°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 mesosphereâ€"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 |
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