J-L Bertaux

List of Publications by Year
in descending order

182	12,102	15504 65	30922 102
papers	citations	h-index	g-index

198	198	198	4573
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Study of the hydrogen escape rate at Mars during martian years 28 and 29 from comparisons between SPICAM/Mars express observations and GCM-LMD simulations. Icarus, 2021, 353, 113498.	2.5	16
2	The Spatial and Temporal Distribution of Nighttime Ozone and Sulfur Dioxide in the Venus Mesosphere as Deduced From SPICAV UV Stellar Occultations. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006625.	3.6	6
3	Relationship Between the Ozone and Water Vapor Columns on Mars as Observed by SPICAM and Calculated by a Global Climate Model. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006838.	3.6	19
4	Analysis of Hybrid Gasâ€“Dust Outbursts Observed at 67P/Churyumovâ€“Gerasimenko. Astronomical Journal, 2021, 162, 4.	4.7	2
5	Spatial Distribution of Ultraviolet Emission from Cometary Activity at 67P/Churyumov-Gerasimenko. Astronomical Journal, 2021, 162, 5.	4.7	0
6	Multiâ€Annual Monitoring of the Water Vapor Vertical Distribution on Mars by SPICAM on Mars Express. Journal of Geophysical Research E: Planets, 2021, 126, .	3.6	32
7	Climatology of SO2 and UV absorber at Venus' cloud top from SPICAV-UV nadir dataset. Icarus, 2020, 335, 113368.	2.5	50
8	Improved calibrations of the stellar occultation data accumulated by the SPICAV UV onboard Venus Express. Planetary and Space Science, 2020, 184, 104868.	1.7	4
9	Mass distribution of exoplanets considering some observation selection effects in the transit detection technique. Icarus, 2020, 346, 113773.	2.5	4
10	The use of the 1.27â€‰Âµm O₂ absorption band for greenhouse gas monitoring from space and application to MicroCarb. Atmospheric Measurement Techniques, 2020, 13, 3329-3374.	3.1	33
11	Solarâ€Related Variations of the Cloud Top Circulation Above Aphrodite Terra From VMC/Venus Express Wind Fields. Journal of Geophysical Research E: Planets, 2019, 124, 1864-1879.	3.6	8
12	The SPARC water vapour assessment II: profile-to-profile comparisons of stratospheric and lower mesospheric water vapour data sets obtained from satellites. Atmospheric Measurement Techniques, 2019, 12, 2693-2732.	3.1	13
13	A new MesosphEO data set of temperature profiles from 35 to 85â€‰km using Rayleigh scattering at limb from GOMOS/ENVISAT daytime observations. Atmospheric Measurement Techniques, 2019, 12, 749-761.	3.1	6
14	Multidisciplinary analysis of the Hapi region located on Comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2019, 485, 2139-2154.	4.4	9
15	SWAN/SOHO Lymanâ€Î± Mapping: The Hydrogen Geocorona Extends Well Beyond the Moon. Journal of Geophysical Research: Space Physics, 2019, 124, 861-885.	2.4	43
16	Comet C/2017 S3 (PanSTARRS): Outbursts and Disintegration. Astrophysical Journal Letters, 2019, 884, L39.	8.3	4
17	Surface evolution of the Anhur region on comet 67P/Churyumov-Gerasimenko from high-resolution OSIRIS images. Astronomy and Astrophysics, 2019, 630, A13.	5.1	15
18	Seasonal variations in source regions of the dust jets on comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2019, 630, A17.	5.1	9

#	Article	IF	Citations
19	Quantitative analysis of isolated boulder fields on comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2019, 630, A15.	5.1	4
20	Discovery of cloud top ozone on Venus. Icarus, 2019, 319, 491-498.	2.5	19
21	The Atmospheric Chemistry Suite (ACS) of Three Spectrometers for the ExoMars 2016 Trace Gas Orbiter. Space Science Reviews, 2018, 214, 1.	8.1	119
22	The phase function and density of the dust observed at comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2018, 476, 2835-2839.	4.4	20
23	On deviations from free-radial outflow in the inner coma of comet 67P/Churyumovâ€“Gerasimenko. Icarus, 2018, 311, 1-22.	2.5	21
24	Ultraviolet Observations of Coronal Mass Ejection Impact on Comet 67P/Churyumovâ€“Gerasimenko by Rosetta Alice. Astronomical Journal, 2018, 156, 16.	4.7	15
25	The big lobe of 67P/Churyumovâ€“Gerasimenko comet: morphological and spectrophotometric evidences of layering as from OSIRIS data. Monthly Notices of the Royal Astronomical Society, 2018, 479, 1555-1568.	4.4	7
26	Night side distribution of SO2 content in Venusâ€™ upper mesosphere. Icarus, 2017, 294, 58-71.	2.5	32
27	Distance determination method of dust particles using Rosetta OSIRIS NAC and WAC data. Planetary and Space Science, 2017, 143, 256-264.	1.7	8
28	Surface changes on comet 67P/Churyumov-Gerasimenko suggest a more active past. Science, 2017, 355, 1392-1395.	12.6	63
29	The pristine interior of comet 67P revealed by the combined Aswan outburst and cliff collapse. Nature Astronomy, 2017, 1, .	10.1	100
30	Long-term monitoring of comet 67P/Churyumovâ€“Gerasimenkoâ€™s jets with OSIRIS onboard Rosetta. Monthly Notices of the Royal Astronomical Society, 2017, 469, S380-S385.	4.4	13
31	Diffuse interstellar bands carriers and cometary organic materialâ˜…. Monthly Notices of the Royal Astronomical Society, 2017, 469, S646-S660.	4.4	8
32	SPICAM on Mars Express: A 10 year in-depth survey of the Martian atmosphere. Icarus, 2017, 297, 195-216.	2.5	64
33	Rosetta Alice/VIRTIS observations of the water vapour UV electroglow emissions around comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S416-S426.	4.4	12
34	Seasonal mass transfer on the nucleus of comet 67P/Chuyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S357-S371.	4.4	111
35	Dust mass distribution around comet 67P/Churyumovâ€“Gerasimenko determined via parallax measurements using Rosetta's OSIRIS cameras. Monthly Notices of the Royal Astronomical Society, 2017, 469, S276-S284.	4.4	43
36	The highly active Anhurâ€“Bes regions in the 67P/Churyumovâ€“Gerasimenko comet: results from OSIRIS/ROSETTA observations. Monthly Notices of the Royal Astronomical Society, 2017, 469, S93-S107.	4.4	30

#	Article	IF	Citations
37	Thermal modelling of water activity on comet 67P/Churyumov-Gerasimenko with global dust mantle and plural dust-to-ice ratio. Monthly Notices of the Royal Astronomical Society, 2017, 469, S295-S311.	4.4	39
38	IUVS echelleâ€mode observations of interplanetary hydrogen: Standard for calibration and reference for cavity variations between Earth and Mars during MAVEN cruise. Journal of Geophysical Research: Space Physics, 2017, 122, 2089-2105.	2.4	16
39	Characterization of dust aggregates in the vicinity of the Rosetta spacecraft. Monthly Notices of the Royal Astronomical Society, 2017, 469, S312-S320.	4.4	12
40	Seasonal Changes in Hydrogen Escape From Mars Through Analysis of HST Observations of the Martian Exosphere Near Perihelion. Journal of Geophysical Research: Space Physics, 2017, 122, 11,756.	2.4	22
41	Geomorphological and spectrophotometric analysis of Seth's circular niches on comet 67P/Churyumovâ€“Gerasimenko using OSIRIS images. Monthly Notices of the Royal Astronomical Society, 2017, 469, S238-S251.	4.4	8
42	Analysis and modeling of remote observations of the martian hydrogen exosphere. Icarus, 2017, 281, 264-280.	2.5	27
43	The pebbles/boulders size distributions on Sais: Rosettaâ€™s final landing site on comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S636-S645.	4.4	40
44	A three-dimensional modelling of the layered structure of comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S741-S754.	4.4	22
45	Improved GOMOS/Envisat ozone retrievals in the upper troposphere and the lower stratosphere. Atmospheric Measurement Techniques, 2017, 10, 231-246.	3.1	10
46	The global meter-level shape model of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2017, 607, L1.	5.1	107
47	Long-term survival of surface water ice on comet 67P. Monthly Notices of the Royal Astronomical Society, 2017, 469, S582-S597.	4.4	24
48	Acceleration of individual, decimetre-sized aggregates in the lower coma of comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S78-S88.	4.4	52
49	Geologic mapping of the Comet 67P/Churyumovâ€“Gerasimenko's Northern hemisphere. Monthly Notices of the Royal Astronomical Society, 2016, 462, S352-S367.	4.4	27
50	The southern hemisphere of 67P/Churyumov-Gerasimenko: Analysis of the preperihelion size-frequency distribution of boulders â‰¥7 m. Astronomy and Astrophysics, 2016, 592, L2.	5.1	27
51	Sunset jets observed on comet 67P/Churyumov-Gerasimenko sustained by subsurface thermal lag. Astronomy and Astrophysics, 2016, 586, A7.	5.1	55
52	Characterization of the Abydos region through OSIRIS high-resolution images in support of CIVA measurements. Astronomy and Astrophysics, 2016, 585, L1.	5.1	26
53	Gas outflow and dust transport of comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S533-S546.	4.4	34
54	Are fractured cliffs the source of cometary dust jets? Insights from OSIRIS/Rosetta at 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 587, A14.	5.1	102

#	Article	IF	Citations
55	Regional surface morphology of comet 67P/Churyumov-Gerasimenko from Rosetta/OSIRIS images: The southern hemisphere. Astronomy and Astrophysics, 2016, 593, A110.	5.1	86
56	Detection of exposed H₂O ice on the nucleus of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 595, A102.	5.1	67
57	THE NATURE AND FREQUENCY OF THE GAS OUTBURSTS IN COMET 67P/CHURYUMOVâ€“GERASIMENKO OBSERVED BY THE ALICE FAR-ULTRAVIOLET SPECTROGRAPH ON ROSETTA. Astrophysical Journal Letters, 2016, 825, L8.	8.3	31
58	Aswan site on comet 67P/Churyumov-Gerasimenko: Morphology, boulder evolution, and spectrophotometry. Astronomy and Astrophysics, 2016, 592, A69.	5.1	53
59	Variations of water vapor and cloud top altitude in the Venusâ€™ mesosphere from SPICAV/VEx observations. Icarus, 2016, 275, 143-162.	2.5	67
60	EVOLUTION OF THE DUST SIZE DISTRIBUTION OF COMET 67P/CHURYUMOVâ€“GERASIMENKO FROM 2.2 au TO PERIHELION. Astrophysical Journal, 2016, 821, 19.	4.5	158
61	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
62	Rosettaâ€™s comet 67P/Churyumov-Gerasimenko sheds its dusty mantle to reveal its icy nature. Science, 2016, 354, 1566-1570.	12.6	97
63	The Agilkia boulders/pebbles sizeâ€“frequency distributions: OSIRIS and ROLIS joint observations of 67P surface. Monthly Notices of the Royal Astronomical Society, 2016, 462, S242-S252.	4.4	15
64	Geomorphological mapping of comet 67P/Churyumovâ€“Gerasimenkoâ€™s Southern hemisphere. Monthly Notices of the Royal Astronomical Society, 2016, 462, S573-S592.	4.4	23
65	The primordial nucleus of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 592, A63.	5.1	159
66	SPICAM observations and modeling of Mars aurorae. Icarus, 2016, 264, 398-406.	2.5	52
67	Aerosol properties in the upper haze of Venus from SPICAV IR data. Icarus, 2016, 277, 154-170.	2.5	53
68	Variegation of comet 67P/Churyumov-Gerasimenko in regions showing activity. Astronomy and Astrophysics, 2016, 586, A80.	5.1	43
69	Concurrent observations of ultraviolet aurora and energetic electron precipitation with Mars Express. Journal of Geophysical Research: Space Physics, 2015, 120, 6749-6765.	2.4	37
70	Ten years of Martian nitric oxide nightglow observations. Geophysical Research Letters, 2015, 42, 720-725.	4.0	29
71	Scientific assessment of the quality of OSIRIS images. Astronomy and Astrophysics, 2015, 583, A46.	5.1	67
72	Characterization of OSIRIS NAC filters for the interpretation of multispectral data of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A45.	5.1	8

#	Article	IF	Citations
73	Shape model, reference system definition, and cartographic mapping standards for comet 67P/Churyumov-Gerasimenko â€“ Stereo-photogrammetric analysis of Rosetta/OSIRIS image data. Astronomy and Astrophysics, 2015, 583, A33.	5.1	188
74	OSIRIS observations of meter-sized exposures of H₂O ice at the surface of 67P/Churyumov-Gerasimenko and interpretation using laboratory experiments. Astronomy and Astrophysics, 2015, 583, A25.	5.1	97
75	Redistribution of particles across the nucleus of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A17.	5.1	149
76	Insolation, erosion, and morphology of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A34.	5.1	173
77	Morphology and dynamics of the jets of comet 67P/Churyumov-Gerasimenko: Early-phase development. Astronomy and Astrophysics, 2015, 583, A11.	5.1	33
78	Spectrophotometric properties of the nucleus of comet 67P/Churyumov-Gerasimenko from the OSIRIS instrument onboard the ROSETTA spacecraft. Astronomy and Astrophysics, 2015, 583, A30.	5.1	188
79	Regional surface morphology of comet 67P/Churyumov-Gerasimenko from Rosetta/OSIRIS images. Astronomy and Astrophysics, 2015, 583, A26.	5.1	153
80	Geomorphology of the Imhotep region on comet 67P/Churyumov-Gerasimenko from OSIRIS observations. Astronomy and Astrophysics, 2015, 583, A35.	5.1	59
81	Size-frequency distribution of boulders â‰¥7 m on comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A37.	5.1	108
82	Geomorphology and spectrophotometry of Philaeâ€™s landing site on comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A41.	5.1	41
83	Temporal morphological changes in the Imhotep region of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A36.	5.1	60
84	Large-scale dust jets in the coma of 67P/Churyumov-Gerasimenko as seen by the OSIRIS instrument onboard Rosetta. Astronomy and Astrophysics, 2015, 583, A9.	5.1	39
85	A strong seasonal dependence in the Martian hydrogen exosphere. Geophysical Research Letters, 2015, 42, 8678-8685.	4.0	86
86	Fractures on comet 67P/Churyumovâ€Gerasimenko observed by Rosetta/OSIRIS. Geophysical Research Letters, 2015, 42, 5170-5178.	4.0	71
87	Orbital elements of the material surrounding comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A16.	5.1	23
88	Measurements of the near-nucleus coma of comet 67P/Churyumov-Gerasimenko with the Alice far-ultraviolet spectrograph on Rosetta. Astronomy and Astrophysics, 2015, 583, A8.	5.1	77
89	Thermal structure of Venus nightside upper atmosphere measured by stellar occultations with SPICAV/Venus Express. Planetary and Space Science, 2015, 113-114, 321-335.	1.7	37
90	Altitude profiles of O2 on Mars from SPICAM stellar occultations. Icarus, 2015, 252, 154-160.	2.5	37

#	Article	IF	Citations
91	Dust measurements in the coma of comet 67P/Churyumov-Gerasimenko inbound to the Sun. Science, 2015, 347, aaa3905.	12.6	310
92	On the nucleus structure and activity of comet 67P/Churyumov-Gerasimenko. Science, 2015, 347, aaa1044.	12.6	366
93	The morphological diversity of comet 67P/Churyumov-Gerasimenko. Science, 2015, 347, aaa0440.	12.6	259
94	Large heterogeneities in comet 67P as revealed by active pits from sinkhole collapse. Nature, 2015, 523, 63-66.	27.8	158
95	Two independent and primitive envelopes of the bilobate nucleus of comet 67P. Nature, 2015, 526, 402-405.	27.8	141
96	Search for horizontal and vertical variations of CO in the day and night side lower mesosphere of Venus from CSHELL/IRTF <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0010.gif" overflow="scroll"><mml:mn>4.53</mml:mn><mml:mspace width="0.25em" /><mml:mi mathvariant="normal">Î¼</mml:mi><mml:mi mathvariant="normal">m</mml:mi></mml:math> observations. Planetary and Space Science, 2015, 113-114, 256-263.	1.7	30
97	Marsâ€™ water vapor mapping by the SPICAM IR spectrometer: Five martian years of observations. Icarus, 2015, 251, 50-64.	2.5	90
98	Mars thermospheric scale height: CO Cameron and CO2+ dayglow observations from Mars Express. Icarus, 2015, 245, 295-305.	2.5	29
99	Unexpected variability of Martian hydrogen escape. Geophysical Research Letters, 2014, 41, 314-320.	4.0	137
100	Galactic cosmic rays measured by UVS on Voyager 1 and the end of the modulation. Astronomy and Astrophysics, 2014, 563, A108.	5.1	6
101	Validation of GOMOS ozone precision estimates in the stratosphere. Atmospheric Measurement Techniques, 2014, 7, 2147-2158.	3.1	12
102	Evidence for a bimodal size distribution for the suspended aerosol particles on Mars. Icarus, 2014, 231, 239-260.	2.5	82
103	O2(a1Î”g) dayglow limb observations on Mars by SPICAM IR on Mars-Express and connection to water vapor distribution. Icarus, 2014, 239, 131-140.	2.5	31
104	The rotation state of 67P/Churyumov-Gerasimenko from approach observations with the OSIRIS cameras on Rosetta. Astronomy and Astrophysics, 2014, 569, L2.	5.1	81
105	A rapid decrease of the hydrogen corona of Mars. Geophysical Research Letters, 2014, 41, 8013-8020.	4.0	98
106	A complete climatology of the aerosol vertical distribution on Mars from MEx/SPICAM UV solar occultations. Icarus, 2013, 223, 892-941.	2.5	64
107	Annual survey of water vapor vertical distribution and waterâ€“aerosol coupling in the martian atmosphere observed by SPICAM/MEx solar occultations. Icarus, 2013, 223, 942-962.	2.5	120
108	Variations of sulphur dioxide at the cloud top of Venusâ€™s dynamic atmosphere. Nature Geoscience, 2013, 6, 25-28.	12.9	164

#	Article	IF	Citations
109	New nitric oxide (NO) nightglow measurements with SPICAM/MEx as a tracer of Mars upper atmosphere circulation and comparison with LMDâ€MGCM model prediction: Evidence for asymmetric hemispheres. Journal of Geophysical Research E: Planets, 2013, 118, 2172-2179.	3.6	37
110	Characterization of the stray light in a space borne atmospheric AOTF spectrometer. Optics Express, 2013, 21, 18354.	3.4	13
111	OClO slant column densities derived from GOMOS averaged transmittance measurements. Atmospheric Measurement Techniques, 2013, 6, 2953-2964.	3.1	2
112	First detection of O₂ 1.27 Î¼m nightglow emission at Mars with OMEGA/MEX and comparison with general circulation model predictions. Journal of Geophysical Research, 2012, 117, .	3.3	37
113	Vertical profiling of SO2 and SO above Venusâ€™ clouds by SPICAV/SOIR solar occultations. Icarus, 2012, 217, 740-751.	2.5	103
114	Hydrogen density in the dayside venusian exosphere derived from Lyman-Î± observations by SPICAV on Venus Express. Icarus, 2012, 217, 767-778.	2.5	47
115	The O2 nightglow in the martian atmosphere by SPICAM onboard of Mars-Express. Icarus, 2012, 219, 596-608.	2.5	45
116	Observations of thermal tides in the middle atmosphere of Mars by the SPICAM instrument. Journal of Geophysical Research, 2011, 116, .	3.3	35
117	Voyager Measurements of Hydrogen Lyman-Î± Diffuse Emission from the Milky Way. Science, 2011, 334, 1665-1669.	12.6	24
118	Rosetta-Alice observations of exospheric hydrogen and oxygen on Mars. Icarus, 2011, 214, 394-399.	2.5	82
119	A layer of ozone detected in the nightside upper atmosphere of Venus. Icarus, 2011, 216, 82-85.	2.5	81
120	An investigation of the SO2 content of the venusian mesosphere using SPICAV-UV in nadir mode. Icarus, 2011, 211, 58-69.	2.5	86
121	Evidence of Water Vapor in Excess of Saturation in the Atmosphere of Mars. Science, 2011, 333, 1868-1871.	12.6	122
122	ULTRAVIOLET GLOW FROM THE HYDROGEN WALL. Astrophysical Journal, 2010, 711, 1257-1262.	4.5	12
123	GOMOS O₃, NO₂, and NO₃ observations in 2002â€“2008. Atmospheric Chemistry and Physics, 2010, 10, 7723-7738.	4.9	55
124	Retrieval of atmospheric parameters from GOMOS data. Atmospheric Chemistry and Physics, 2010, 10, 11881-11903.	4.9	71
125	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
126	First climatology of polar mesospheric clouds from GOMOS/ENVISAT stellar occultation instrument. Atmospheric Chemistry and Physics, 2010, 10, 2723-2735.	4.9	18

#	Article	IF	Citations
127	Climatology and comparison of ozone from ENVISAT/GOMOS and SHADOZ/balloon-sonde observations in the southern tropics. Atmospheric Chemistry and Physics, 2010, 10, 8025-8035.	4.9	11
128	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
129	GOMOS data characterisation and error estimation. Atmospheric Chemistry and Physics, 2010, 10, 9505-9519.	4.9	43
130	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
131	Simulating the density and thermal structure of the middle atmosphere (â^¼80â€“130km) of Mars using the MGCMâ€“MTGCM: A comparison with MEX/SPICAM observations. Icarus, 2010, 206, 5-17.	2.5	50
132	NO emissions as observed by SPICAV during stellar occultations. Planetary and Space Science, 2010, 58, 1314-1326.	1.7	21
133	Mapping the mesospheric CO2 clouds on Mars: MEx/OMEGA and MEx/HRSC observations and challenges for atmospheric models. Icarus, 2010, 209, 452-469.	2.5	71
134	The Interstellar H Flow: Updated Analysis of SOHOâ^•SWAN Data. AIP Conference Proceedings, 2010, , .	0.4	42
135	Mars ultraviolet dayglow variability: SPICAM observations and comparison with airglow model. Journal of Geophysical Research, 2010, 115, .	3.3	23
136	Retrievals from GOMOS stellar occultation measurements using characterization of modeling errors. Atmospheric Measurement Techniques, 2010, 3, 1019-1027.	3.1	21
137	Solar infrared occultation observations by SPICAM experiment on Mars-Express: Simultaneous measurements of the vertical distributions of H2O, CO2 and aerosol. Icarus, 2009, 200, 96-117.	2.5	98
138	Dayglow on Mars: Kinetic modelling with SPICAM UV limb data. Planetary and Space Science, 2009, 57, 1008-1021.	1.7	47
139	Density and temperatures of the upper Martian atmosphere measured by stellar occultations with Mars Express SPICAM. Journal of Geophysical Research, 2009, 114, .	3.3	200
140	Martian oxygen density at the exobase deduced from O I 130.4â€‰nm observations by Spectroscopy for the Investigation of the Characteristics of the Atmosphere of Mars on Mars Express. Journal of Geophysical Research, 2009, 114, .	3.3	71
141	Preliminary characterization of the upper haze by SPICAV/SOIR solar occultation in UV to midâ€IR onboard Venus Express. Journal of Geophysical Research, 2009, 114, .	3.3	81
142	Simultaneous measurements of OClO, NO₂ and O₃ in the Arctic polar vortex by the GOMOS instrument. Atmospheric Chemistry and Physics, 2009, 9, 7857-7866.	4.9	15
143	Influence of scintillation on quality of ozone monitoring by GOMOS. Atmospheric Chemistry and Physics, 2009, 9, 9197-9207.	4.9	33
144	Heterogeneous chemistry in the atmosphere of Mars. Nature, 2008, 454, 971-975.	27.8	130

#	Article	IF	Citations
145	Distribution of the ultraviolet nitric oxide Martian night airglow: Observations from Mars Express and comparisons with a oneâ€dimensional model. Journal of Geophysical Research, 2008, 113, .	3.3	59
146	Observations of aurorae by SPICAM ultraviolet spectrograph on board Mars Express: Simultaneous ASPERAâ€3 and MARSIS measurements. Journal of Geophysical Research, 2008, 113, .	3.3	70
147	On Martian nitrogen dayglow emission observed by SPICAM UV spectrograph/Mars Express. Geophysical Research Letters, 2007, 34, .	4.0	51
148	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
149	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
150	Rosina â€" Rosetta Orbiter Spectrometer for Ion and Neutral Analysis. Space Science Reviews, 2007, 128, 745-801.	8.1	331
151	Alice: The rosetta Ultraviolet Imaging Spectrograph. Space Science Reviews, 2007, 128, 507-527.	8.1	79
152	OSIRIS â€" The Scientific Camera System Onboard Rosetta. Space Science Reviews, 2007, 128, 433-506.	8.1	286
153	Vertical distribution of ozone on Mars as measured by SPICAM/Mars Express using stellar occultations. Journal of Geophysical Research, 2006, 111, .	3.3	90
154	Stellar occultations observed by SPICAM on Mars Express. Journal of Geophysical Research, 2006, 111, .	3.3	97
155	Stellar occultations at UV wavelengths by the SPICAM instrument: Retrieval and analysis of Martian haze profiles. Journal of Geophysical Research, 2006, 111, .	3.3	93
156	Martian dayglow as seen by the SPICAM UV spectrograph on Mars Express. Journal of Geophysical Research, 2006, 111, .	3.3	116
157	A global OClO stratospheric layer discovered in GOMOS stellar occultation measurements. Geophysical Research Letters, 2006, 33, .	4.0	17
158	Origins of the Martian aurora observed by Spectroscopy for Investigation of Characteristics of the Atmosphere of Mars (SPICAM) on board Mars Express. Journal of Geophysical Research, 2006, 111, .	3.3	58
159	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
160	Global distribution of total ozone on Mars from SPICAM/MEX UV measurements. Journal of Geophysical Research, 2006, 111, .	3.3	120
161	SPICAM on Mars Express: Observing modes and overview of UV spectrometer data and scientific results. Journal of Geophysical Research, 2006, 111, .	3.3	148
162	Observation of O21.27 Î¼m dayglow by SPICAM IR: Seasonal distribution for the first Martian year of Mars Express. Journal of Geophysical Research, 2006, 111, .	3.3	57

#	Article	IF	Citations
163	Mars water vapor abundance from SPICAM IR spectrometer: Seasonal and geographic distributions. Journal of Geophysical Research, 2006, 111, .	3.3	76
164	SPICAM IR acousto-optic spectrometer experiment on Mars Express. Journal of Geophysical Research, 2006, 111, .	3.3	89
165	Interplanetary LymanÎ±line profiles: variations with solar activity cycle. Astronomy and Astrophysics, 2006, 455, 1135-1142.	5.1	19
166	Exploration of Mars in SPICAM-IR experiment onboard the Mars-Express spacecraft: 1. Acousto-optic spectrometer SPICAM-IR. Cosmic Research, 2006, 44, 278-293.	0.6	7
167	Subvisible CO2 ice clouds detected in the mesosphere of Mars. Icarus, 2006, 183, 403-410.	2.5	113
168	Venus Express science planning. Planetary and Space Science, 2006, 54, 1279-1297.	1.7	142
169	Discovery of an aurora on Mars. Nature, 2005, 435, 790-794.	27.8	203
170	Nightglow in the Upper Atmosphere of Mars and Implications for Atmospheric Transport. Science, 2005, 307, 566-569.	12.6	119
171	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
172	Global measurement of the mesospheric sodium layer by the star occultation instrument GOMOS. Geophysical Research Letters, 2004, 31, .	4.0	26
173	Voyager 1/UVS Lyman Î± glow data from 1993 to 2003: Hydrogen distribution in the upwind outer heliosphere. Journal of Geophysical Research, 2003, 108, .	3.3	19
174	The Helium Focusing Cone of the Local Interstellar Medium Close to the Sun. Astrophysical Journal, 2002, 568, 385-395.	4.5	20
175	Interplanetary Lyman Î± line profiles derived from SWAN/SOHO hydrogen cell measurements: Full-sky Velocity Field. Journal of Geophysical Research, 1999, 104, 12585-12603.	3.3	65
176	SWAN: A study of Solar Wind Anisotropies on SOHO with Lyman alpha sky mapping. Solar Physics, 1995, 162, 403-439.	2.5	114
177	Composition of comet Halley dust particles from Vega observations. Nature, 1986, 321, 280-282.	27.8	349
178	Temperature measurement of interplanetaryâ€“interstellar hydrogen. Nature, 1977, 270, 156-158.	27.8	31
179	Observed variations of the exospheric hydrogen density with the exospheric temperature. Journal of Geophysical Research, 1975, 80, 639-642.	3.3	42
180	Interpretation of Ogo 5 Lyman alpha measurements in the upper geocorona. Journal of Geophysical Research, 1973, 78, 80-91.	3.3	50

#	Article	IF	Citations
181	The backscattering ratio of comet 67P/Churyumov-Gerasimenko dust coma as seen by OSIRIS onboard Rosetta. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	6
182	A numerical inversion of msinâ€‰i exoplanet distribution: the sub-Saturn desert is more depleted than observed and hint of a Uranus mass gap. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	4