Oleg I Korablev

List of Publications by Year
in descending order

197 papers	9,477 citations	38742 50 h-index	42399 92 g-index
246 all docs	246 docs citations	246 times ranked	4578 citing authors

#	Article	IF	Citations
1	No detection of SO₂, H₂S, or OCS in the atmosphere of Mars from the first two Martian years of observations from TGO/ACS. Astronomy and Astrophysics, 2022, 658, A86.	5.1	1
2	Thermal Structure and Aerosols in Marsâ€™ Atmosphere From TIRVIM/ACS Onboard the ExoMars Trace Gas Orbiter: Validation of the Retrieval Algorithm. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	9
3	Thermal Tides in the Martian Atmosphere Near Northern Summer Solstice Observed by ACS/TIRVIM Onboard TGO. Geophysical Research Letters, 2022, 49, .	4.0	10
4	Water Vapor on Mars: A Refined Climatology and Constraints on the Nearâ€Surface Concentration Enabled by Synergistic Retrievals. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	5
5	Reappraising the Production and Transfer of Hydrogen Atoms From the Middle to the Upper Atmosphere of Mars at Times of Elevated Water Vapor. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	5
6	Seasonal Changes in the Vertical Structure of Ozone in the Martian Lower Atmosphere and Its Relationship to Water Vapor. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	4
7	Improved Modeling of Mars' HDO Cycle Using a Mars' Global Climate Model. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	5
8	The HDO Cycle on Mars: Comparison of ACS Observations With GCM Simulations. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	4
9	Ozone vertical distribution in Mars Years 27â€“30 from SPICAM/MEX UV occultations. Icarus, 2022, 387, 115162.	2.5	5
10	Transient HCl in the atmosphere of Mars. Science Advances, 2021, 7, .	10.3	37
11	Seasonal reappearance of HCl in the atmosphere of Mars during the Mars year 35 dusty season. Astronomy and Astrophysics, 2021, 647, A161.	5.1	17
12	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
13	The Effect of the Martian 2018 Global Dust Storm on HDO as Predicted by a Mars Global Climate Model. Geophysical Research Letters, 2021, 48, e2020GL090962.	4.0	12
14	Upper limits for phosphine (PH₃) in the atmosphere of Mars. Astronomy and Astrophysics, 2021, 649, L1.	5.1	4
15	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
16	Revealing a High Water Abundance in the Upper Mesosphere of Mars With ACS Onboard TGO. Geophysical Research Letters, 2021, 48, e2021GL093411.	4.0	24
17	Isotopic fractionation of water and its photolytic products in the atmosphere of Mars. Nature Astronomy, 2021, 5, 943-950.	10.1	27
18	Annual Appearance of Hydrogen Chloride on Mars and a Striking Similarity With the Water Vapor Vertical Distribution Observed by TGO/NOMAD. Geophysical Research Letters, 2021, 48, e2021GL092506.	4.0	15

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19	Isotopes of chlorine from HCl in the Martian atmosphere. Astronomy and Astrophysics, 2021, 651, A32.	5.1	7
20	Martian water loss to space enhanced by regional dust storms. Nature Astronomy, 2021, 5, 1036-1042.	10.1	40
21	Gravity Wave Activity in the Martian Atmosphere at Altitudes 20â€“160Âkm From ACS/TGO Occultation Measurements. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006899.	3.6	22
22	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
23	The vertical structure of CO in the Martian atmosphere from the ExoMars Trace Gas Orbiter. Nature Geoscience, 2021, 14, 67-71.	12.9	30
24	Lunar Infrared Spectrometer with TV Support of the Robotic Arm Working Zone (LIS-TV-RPM). Solar System Research, 2021, 55, 537-549.	0.7	2
25	WSOâ€“UV Project: New Touches. Solar System Research, 2021, 55, 677-687.	0.7	6
26	Isotopic Composition of CO₂ in the Atmosphere of Mars: Fractionation by Diffusive Separation Observed by the ExoMars Trace Gas Orbiter. Journal of Geophysical Research E: Planets, 2021, 126, .	3.6	12
27	Climatology of SO2 and UV absorber at Venus' cloud top from SPICAV-UV nadir dataset. Icarus, 2020, 335, 113368.	2.5	50
28	Mioâ€"First Comprehensive Exploration of Mercuryâ€™s Space Environment: Mission Overview. Space Science Reviews, 2020, 216, 1.	8.1	28
29	Investigating Mercuryâ€™s Environment with the Two-Spacecraft BepiColombo Mission. Space Science Reviews, 2020, 216, 1.	8.1	71
30	Superrotation in Planetary Atmospheres. Space Science Reviews, 2020, 216, 1.	8.1	22
31	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
32	First observation of the magnetic dipole CO₂absorption band at 3.3<i>Î¼</i>m in the atmosphere of Mars by the ExoMars Trace Gas Orbiter ACS instrument. Astronomy and Astrophysics, 2020, 639, A142.	5.1	25
33	Properties of Water Ice and Dust Particles in the Atmosphere of Mars During the 2018 Global Dust Storm as Inferred From the Atmospheric Chemistry Suite. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006419.	3.6	28
34	High-Resolution Fiber-Fed Spectrograph for the 6-m Telescope of the Special Astrophysical Observatory of the Russian Academy of Sciences: Assessment of Efficiency. Astrophysical Bulletin, 2020, 75, 191-197.	1.3	10
35	Martian Multichannel Diode Laser Spectrometer (M-DLS) for In-Situ Atmospheric Composition Measurements on Mars Onboard ExoMars-2022 Landing Platform. Applied Sciences (Switzerland), 2020, 10, 8805.	2.5	3
36	Studies of Planetary Atmospheres in Russia (2015â€“2018). Izvestiya - Atmospheric and Oceanic Physics, 2020, 56, 130-140.	0.9	2

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37	The Dependence of the Mass Distribution of Exoplanets on the Spectral Class of Host Stars. Solar System Research, 2020, 54, 175-186.	0.7	3
38	PHEBUS on Bepi-Colombo: Post-launch Update and Instrument Performance. Space Science Reviews, 2020, 216, 1.	8.1	21
39	Martian Water Ice Clouds During the 2018 Global Dust Storm as Observed by the ACSâ€MIR Channel Onboard the Trace Gas Orbiter. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006300.	3.6	27
40	Stormy water on Mars: The distribution and saturation of atmospheric water during the dusty season. Science, 2020, 367, 297-300.	12.6	117
41	Mass distribution of exoplanets considering some observation selection effects in the transit detection technique. Icarus, 2020, 346, 113773.	2.5	4
42	First detection of ozone in the mid-infrared at Mars: implications for methane detection. Astronomy and Astrophysics, 2020, 639, A141.	5.1	23
43	Observations of Radial Velocity Variability in Stars from the Spectra Obtained with the BTA Fiber-Fed Spectrograph in High Spectral Resolution Mode. Astrophysical Bulletin, 2020, 75, 482-485.	1.3	3
44	Validation of the HITRAN 2016 and GEISA 2015 line lists using ACE-FTS solar occultation observations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 236, 106590.	2.3	7
45	Oxygen isotopic ratios in Martian water vapour observed by ACS MIR on board the ExoMars Trace Gas Orbiter. Astronomy and Astrophysics, 2019, 630, A91.	5.1	24
46	Public â€œCloudâ€• Provisioning for Venus Express VMC Image Processing. Communications on Applied Mathematics and Computation, 2019, 1, 253-261.	1.7	3
47	The Distribution of Giant Exoplanets over True and Projective Masses: Accounting for Observational Selection. Solar System Research, 2019, 53, 124-137.	0.7	6
48	No detection of methane on Mars from early ExoMars Trace Gas Orbiter observations. Nature, 2019, 568, 517-520.	27.8	111
49	Martian dust storm impact on atmospheric H2O and D/H observed by ExoMars Trace Gas Orbiter. Nature, 2019, 568, 521-525.	27.8	107
50	The Mass Distribution of Transiting Exoplanets Corrected for Observational Selection Effects. Astronomy Letters, 2019, 45, 687-694.	1.0	5
51	Discovery of cloud top ozone on Venus. Icarus, 2019, 319, 491-498.	2.5	19
52	Optical design and modeling of satellite imaging spectrometer for atmosphere monitoring. , 2019, , .		0
53	Interferometer with single-axis robot: design, alignment and performance. , 2019, , .		0
54	Compact calibration source for thermal infrared Fourier-transform spectrometer. , 2019, , .		0

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55	Two-coordinate pointing and tracking system for an infrared Fourier-transform spectrometer. , 2019, , .		0
56	The Atmospheric Chemistry Suite (ACS) of Three Spectrometers for the ExoMars 2016 Trace Gas Orbiter. Space Science Reviews, 2018, 214, 1.	8.1	119
57	Investigations of the Mars Upper Atmosphere with ExoMars Trace Gas Orbiter. Space Science Reviews, 2018, 214, 1.	8.1	13
58	Scale heights and detached haze layers in the mesosphere of Venus from SPICAV IR data. Icarus, 2018, 311, 87-104.	2.5	7
59	Water vapor in the middle atmosphere of Mars during the 2007 global dust storm. Icarus, 2018, 300, 440-457.	2.5	111
60	Ground-Based Field Measurements and Calibrations of a New Satellite Spectrometer for Monitoring the Earthâ€™s Ozone Layer. Izvestiya - Atmospheric and Oceanic Physics, 2018, 54, 1399-1407.	0.9	1
61	Acousto-optic tunable filter spectrometers in space missions [Invited]. Applied Optics, 2018, 57, C103.	1.8	52
62	Searching for Traces of Life With the ExoMars Rover. , 2018, , 309-347.		14
63	Stellar imaging coronagraph and exoplanet coronal spectrometer: two additional instruments for exoplanet exploration onboard the WSO-UV 1.7-m orbital telescope. Journal of Astronomical Telescopes, Instruments, and Systems, 2018, 4, 1.	1.8	6
64	Acousto-optic infrared imaging spectrometer for close-up sensing of planetary surfaces. , 2018, , .		2
65	ACS/TIRVIM: Calibration and first results. , 2018, , .		4
66	Optical design of imaging spectrometer for atmosphere monitoring from near-Earth orbit. , 2018, , .		0
67	The nature of terrains of different types on the surface of Venus and selection of potential landing sites for a descent probe of the Venera-D Mission. Solar System Research, 2017, 51, 1-19.	0.7	11
68	Sulfur dioxide in the Venus atmosphere: I. Vertical distribution and variability. Icarus, 2017, 295, 16-33.	2.5	47
69	Sulfur dioxide in the Venus Atmosphere: II. Spatial and temporal variability. Icarus, 2017, 295, 1-15.	2.5	53
70	Habitability on Early Mars and the Search for Biosignatures with the ExoMars Rover. Astrobiology, 2017, 17, 471-510.	3.0	371
71	The Close-Up Imager Onboard the ESA ExoMars Rover: Objectives, Description, Operations, and Science Validation Activities. Astrobiology, 2017, 17, 595-611.	3.0	44
72	SPICAM on Mars Express: A 10 year in-depth survey of the Martian atmosphere. Icarus, 2017, 297, 195-216.	2.5	64

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73	Infrared Spectrometer for ExoMars: A Mast-Mounted Instrument for the Rover. Astrobiology, 2017, 17, 542-564.	3.0	61
74	Estimates of abundance of the short-baseline (1-3 meters) slopes for different Venusian terrains using terrestrial analogues. Solar System Research, 2017, 51, 87-103.	0.7	4
75	Fourier transform spectrometers for remote sensing of planetary atmospheres and surfaces. CEAS Space Journal, 2017, 9, 399-409.	2.3	5
76	Compact acousto-optic imaging spectro-polarimeter for mineralogical investigations in the near infrared. Optics Express, 2017, 25, 25980.	3.4	23
77	The MetNet vehicle: a lander to deploy environmental stations for local and global investigations of Mars. Geoscientific Instrumentation, Methods and Data Systems, 2017, 6, 103-124.	1.6	6
78	High resolution middle infrared spectrometer, a part of atmospheric chemistry suite (ACS) for EXOMARS 2016 trace gas orbiter. , 2017, , .		1
79	Studies of planetary atmospheres in Russia (2011â€"2014). Izvestiya - Atmospheric and Oceanic Physics, 2016, 52, 483-496.	0.9	4
80	Long-term nadir observations of the O2 dayglow by SPICAM IR. Planetary and Space Science, 2016, 122, 1-12.	1.7	29
81	Variations of water vapor and cloud top altitude in the Venusâ€™ mesosphere from SPICAV/VEx observations. Icarus, 2016, 275, 143-162.	2.5	67
82	Mars and Venus: Different destinies of terrestrial planets. Herald of the Russian Academy of Sciences, 2016, 86, 285-297.	0.6	0
83	Contribution from SOIR/VEX to the updated Venus International Reference Atmosphere (VIRA). Advances in Space Research, 2016, 57, 443-458.	2.6	15
84	Aerosol properties in the upper haze of Venus from SPICAV IR data. Icarus, 2016, 277, 154-170.	2.5	53
85	ACS experiment for atmospheric studies on â€œExoMars-2016â€•Orbiter. Solar System Research, 2015, 49, 529-537.	0.7	19
86	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
87	Near-infrared echelle-AOTF spectrometer ACS-NIR for the ExoMars Trace Gas Orbiter. Proceedings of SPIE, 2015, , .	0.8	5
88	Middle-infrared echelle cross-dispersion spectrometer ACS-MIR for the ExoMars Trace Gas Orbiter. Proceedings of SPIE, 2015, , .	0.8	4
89	The CO2 continuum absorption in the 1.10- and 1.18-Î¼m windows on Venus from Maxwell Montes transits by SPICAV IR onboard Venus express. Planetary and Space Science, 2015, 113-114, 66-77.	1.7	23
90	Examination of Temperature Influence on Wide-Angle Paratellurite Crystal Acousto-Optic Filters Operation. Acta Physica Polonica A, 2015, 127, 43-45.	0.5	14

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91	High-resolution infrared detector and its electronic unit for space application. Proceedings of SPIE, 2015, , .	0.8	1
92	Wide-aperture TeO2 AOTF at low temperatures: Operation and survival. Ultrasonics, 2015, 59, 50-58.	3.9	33
93	Development of a space-borne spectrometer to monitor atmospheric ozone. Applied Optics, 2015, 54, 3315.	2.1	6
94	Development of a mast or robotic arm-mounted infrared AOTF spectrometer for surface Moon and Mars probes. Proceedings of SPIE, 2015, , .	0.8	11
95	Scientific objectives of the scientific equipment of the landing platform of the ExoMars-2018 mission. Solar System Research, 2015, 49, 509-517.	0.7	23
96	Preliminary study of Venus cloud layers with polarimetric data from SPICAV/VEx. Planetary and Space Science, 2015, 113-114, 159-168.	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	Three infrared spectrometers, an atmospheric chemistry suite for the ExoMars 2016 trace gas orbiter. Journal of Applied Remote Sensing, 2014, 8, 084983.	1.3	32
99	Evidence for a bimodal size distribution for the suspended aerosol particles on Mars. Icarus, 2014, 231, 239-260.	2.5	82
100	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
101	Atmospheric chemistry suite (ACS): a set of infrared spectrometers for atmospheric measurements on board ExoMars trace gas orbiter. , 2013, , .		2
102	Achromatic interfero-coronagraph with variable rotation shearing for studying extrasolar planets. Solar System Research, 2013, 47, 477-486.	0.7	2
103	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
104	Compact echelle spectrometer for occultation sounding of the Martian atmosphere: design and performance. Applied Optics, 2013, 52, 1054.	1.8	17
105	Characterization of the stray light in a space borne atmospheric AOTF spectrometer. Optics Express, 2013, 21, 18354.	3.4	13
106	Advances in astronomy (Scientific session of the Physical Sciences Division of the Russian Academy of) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.2	0
107	Space-based spectroscopy of Mars: new methods and new results. Physics-Uspekhi, 2013, 56, 722-729.	2.2	2
108	Vertical profiling of SO2 and SO above Venusâ€™ clouds by SPICAV/SOIR solar occultations. Icarus, 2012, 217, 740-751.	2.5	103

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109	The O2 nightglow in the martian atmosphere by SPICAM onboard of Mars-Express. Icarus, 2012, 219, 596-608.	2.5	45
110	SPICAV IR acousto-optic spectrometer experiment on Venus Express. Planetary and Space Science, 2012, 65, 38-57.	1.7	49
111	Studies of the planetary atmospheres in Russia (2007â€“2010). Izvestiya - Atmospheric and Oceanic Physics, 2012, 48, 309-331.	0.9	3
112	AOST: Fourier spectrometer for studying mars and phobos. Solar System Research, 2012, 46, 31-40.	0.7	11
113	The RUSALKA device for measuring the carbon dioxide and methane concentration in the atmosphere from on board the International Space Station. Journal of Optical Technology (A Translation of) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.4	18
114	Common-path achromatic rotational-shearing coronagraph. Optics Letters, 2011, 36, 1972.	3.3	10
115	Stellar coronagraph using the principle of achromatic null-interferometer. Cosmic Research, 2011, 49, 99-109.	0.6	1
116	A layer of ozone detected in the nightside upper atmosphere of Venus. Icarus, 2011, 216, 82-85.	2.5	81
117	The 1.10- and 1.18-Î¼m nightside windows of Venus observed by SPICAV-IR aboard Venus Express. Icarus, 2011, 216, 173-183.	2.5	96
118	Prospective spacecraft for venus research: Venera-D design. Solar System Research, 2011, 45, 710-714.	0.7	8
119	Methods and measurements to assess physical and geochemical conditions at the surface of Europa. Advances in Space Research, 2011, 48, 702-717.	2.6	7
120	Europa Lander mission and the context of international cooperation. Advances in Space Research, 2011, 48, 615-628.	2.6	11
121	Evidence of Water Vapor in Excess of Saturation in the Atmosphere of Mars. Science, 2011, 333, 1868-1871.	12.6	122
122	Microscope spectrometer for the Phobos-Grunt mission. Solar System Research, 2010, 44, 403-408.	0.7	1
123	Near infrared diode laser spectroscopy of C2H2, H2O, CO2 andÂtheir isotopologues and the application to TDLAS, a tunable diode laser spectrometer for the martian PHOBOS-GRUNT space mission. Applied Physics B: Lasers and Optics, 2010, 99, 339-351.	2.2	78
124	PHEBUS: A double ultraviolet spectrometer to observe Mercury's exosphere. Planetary and Space Science, 2010, 58, 201-223.	1.7	42
125	yThe Mercury sodium atmospheric spectral imager for the MMO spacecraft of Bepi-Colombo. Planetary and Space Science, 2010, 58, 224-237.	1.7	28
126	Viking observation of water vapor on Mars: Revision from up-to-date spectroscopy and atmospheric models. Icarus, 2010, 208, 156-164.	2.5	50

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127	Identification of planetary wave patterns associated with ice seasonal sublimation/condensation dynamics in the polar regions of mars, based on IR mapping spectrometer OMEGA onboard Mars Express. Cosmic Research, 2010, 48, 150-156.	0.6	0
128	Europa Lander Mission: A Challenge to Find Traces of Alien Life. Proceedings of the International Astronomical Union, 2010, 6, 115-129.	0.0	4
129	European Venus Explorer (EVE): an in-situ mission to Venus. Experimental Astronomy, 2009, 23, 741-760.	3.7	9
130	Triple Fâ€"a comet nucleus sample return mission. Experimental Astronomy, 2009, 23, 809-847.	3.7	14
131	New in the physics of planetary atmosphere. Izvestiya - Atmospheric and Oceanic Physics, 2009, 45, 503-516.	0.9	2
132	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
133	European Venus Explorer: An in-situ mission to Venus using a balloon platform. Advances in Space Research, 2009, 44, 106-115.	2.6	16
134	Venus express: Highlights of the nominal mission. Solar System Research, 2009, 43, 185-209.	0.7	24
135	A study of the bound water, water ice, and frost distribution over the Martian surface: Treatment and correcting of the data of observations with the OMEGA spectrometer onboard Mars Express. Solar System Research, 2009, 43, 373-391.	0.7	1
136	The AOST miniature Fourier spectrometer for space studies. Journal of Optical Technology (A) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	0.4	3
137	The AOST miniature Fourier spectrometer for space studies. Journal of Optical Technology (A) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.4	5
138	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
139	First observation of 628 CO2 isotopologue band at 3.3 Î¼m in the atmosphere of Venus by solar occultation from Venus Express. Icarus, 2008, 195, 28-33.	2.5	22
140	Line parameters for the 01111â€"00001 band of 12C16O18O from SOIR measurements of the Venus atmosphere. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 895-905.	2.3	28
141	Attempt to identify a source mechanism of Mercuryâ€™s sodium exosphere by a spectrometer using Fabryâ€"Perot etalon. Advances in Space Research, 2008, 42, 1172-1179.	2.6	2
142	In-flight performance and calibration of SPICAV SOIR onboard Venus Express. Applied Optics, 2008, 47, 2252.	2.1	50
143	First observations of SO₂ above Venus' clouds by means of Solar Occultation in the Infrared. Journal of Geophysical Research, 2008, 113, .	3.3	50
144	HDO and H₂O vertical distributions and isotopic ratio in the Venus mesosphere by Solar Occultation at Infrared spectrometer on board Venus Express. Journal of Geophysical Research, 2008, 113, .	3.3	117

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145	Composition of the Venus mesosphere measured by Solar Occultation at Infrared on board Venus Express. Journal of Geophysical Research, 2008, 113, .	3.3	86
146	Observation of Mercury's sodium exosphere by MSASI in the BepiColombo mission. Planetary and Space Science, 2007, 55, 1622-1633.	1.7	12
147	Venus Expressâ€"The first European mission to Venus. Planetary and Space Science, 2007, 55, 1636-1652.	1.7	212
148	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
149	A warm layer in Venus' cryosphere and high-altitude measurements of HF, HCl, H2O and HDO. Nature, 2007, 450, 646-649.	27.8	161
150	Planetary Magnetic Dynamo Effect on Atmospheric Protection of Early Earth and Mars. Space Science Reviews, 2007, 129, 279-300.	8.1	53
151	Introduction to Chapter 6: Planetary/Sun Interactions. Space Science Reviews, 2007, 129, 205-206.	8.1	2
152	Introduction: A Multidisciplinary Approach to Habitability. Space Science Reviews, 2007, 129, 1-5.	8.1	3
153	Stellar occultations observed by SPICAM on Mars Express. Journal of Geophysical Research, 2006, 111, .	3.3	97
154	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
155	Global distribution of total ozone on Mars from SPICAM/MEX UV measurements. Journal of Geophysical Research, 2006, 111, .	3.3	120
156	SPICAM on Mars Express: Observing modes and overview of UV spectrometer data and scientific results. Journal of Geophysical Research, 2006, 111, .	3.3	148
157	Dust and cloud detection at the Mars limb with UV scattered sunlight with SPICAM. Journal of Geophysical Research, 2006, 111, .	3.3	31
158	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
159	Mars water vapor abundance from SPICAM IR spectrometer: Seasonal and geographic distributions. Journal of Geophysical Research, 2006, 111, .	3.3	76
160	SPICAM IR acousto-optic spectrometer experiment on Mars Express. Journal of Geophysical Research, 2006, 111, .	3.3	89
161	Compact high-resolution spaceborne echelle grating spectrometer with acousto-optical tunable filter based order sorting for the infrared domain from 22 to 43 Î¼m. Applied Optics, 2006, 45, 5191.	2.1	108
162	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

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163	Exploration of Mars in the SPICAM-IR experiment onboard the Mars-Express spacecraft: 2. Nadir observations: Simultaneous observations of water vapor and O2 glow in the Martian atmosphere. Cosmic Research, 2006, 44, 294-304.	0.6	4
164	Venus Express: Scientific goals, instrumentation, and scenario of the mission. Cosmic Research, 2006, 44, 334-348.	0.6	48
165	Subvisible CO2 ice clouds detected in the mesosphere of Mars. Icarus, 2006, 183, 403-410.	2.5	113
166	Venus Express science planning. Planetary and Space Science, 2006, 54, 1279-1297.	1.7	142
167	Global Mineralogical and Aqueous Mars History Derived from OMEGA/Mars Express Data. Science, 2006, 312, 400-404.	12.6	1,395
168	Diode laser spectroscopy of H2O and CO2 in the 1.877-Î¼m region for the in situ monitoring of the Martian atmosphere. Applied Physics B: Lasers and Optics, 2006, 82, 133-140.	2.2	28
169	TDLAS a laser diode sensor for the in situ monitoring of H2O, CO2 and their isotopes in the Martian atmosphere. Advances in Space Research, 2006, 38, 718-725.	2.6	33
170	Global structure and composition of the martian atmosphere with SPICAM on Mars express. Advances in Space Research, 2005, 35, 31-36.	2.6	8
171	Discovery of an aurora on Mars. Nature, 2005, 435, 790-794.	27.8	203
172	Phyllosilicates on Mars and implications for early martian climate. Nature, 2005, 438, 623-627.	27.8	825
173	Optical properties of dust and the opacity of the Martian atmosphere. Advances in Space Research, 2005, 35, 21-30.	2.6	33
174	Nightglow in the Upper Atmosphere of Mars and Implications for Atmospheric Transport. Science, 2005, 307, 566-569.	12.6	119
175	Study of the atmospheres of the terrestrial planets. Physics-Uspekhi, 2005, 48, 626-635.	2.2	3
176	GOMOS on Envisat: an overview. Advances in Space Research, 2004, 33, 1020-1028.	2.6	142
177	First results on GOMOS/ENVISAT. Advances in Space Research, 2004, 33, 1029-1035.	2.6	66
178	MEP (Mars Environment Package): toward a package for studying environmental conditions at the surface of Mars from future lander/rover missions. Advances in Space Research, 2004, 34, 1702-1709.	2.6	7
179	Studies of Planetary Atmospheres by Stellar Occultations: Application to Mars and Venus. Solar System Research, 2003, 37, 441-468.	0.7	2
180	Title is missing!. Solar System Research, 2003, 37, 1-19.	0.7	23

#	Article	IF	Citations
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