Giuseppe Piccioni

List of Publications by Year
in descending order

203	7,232	47006 47	71685 76
papers	citations	h-index	g-index

207	207	207	3660
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The organic-rich surface of comet 67P/Churyumov-Gerasimenko as seen by VIRTIS/Rosetta. Science, 2015, 347, aaa0628.	12.6	293
2	Recent Hotspot Volcanism on Venus from VIRTIS Emissivity Data. Science, 2010, 328, 605-608.	12.6	270
3	A chemical survey of exoplanets with ARIEL. Experimental Astronomy, 2018, 46, 135-209.	3.7	249
4	Venus Expressâ€"The first European mission to Venus. Planetary and Space Science, 2007, 55, 1636-1652.	1.7	212
5	The diurnal cycle of water ice on comet 67P/Churyumovâ€"Gerasimenko. Nature, 2015, 525, 500-503.	27.8	199
6	Virtis: An Imaging Spectrometer for the Rosetta Mission. Space Science Reviews, 2007, 128, 529-559.	8.1	181
7	Scientific goals for the observation of Venus by VIRTIS on ESA/Venus express mission. Planetary and Space Science, 2007, 55, 1653-1672.	1.7	155
8	The Planetary Fourier Spectrometer (PFS) onboard the European Mars Express mission. Planetary and Space Science, 2005, 53, 963-974.	1.7	151
9	Venus Express science planning. Planetary and Space Science, 2006, 54, 1279-1297.	1.7	142
10	Refractory and semi-volatile organics at the surface of comet 67P/Churyumov-Gerasimenko: Insights from the VIRTIS/Rosetta imaging spectrometer. Icarus, 2016, 272, 32-47.	2.5	127
11	Variable winds on Venus mapped in three dimensions. Geophysical Research Letters, 2008, 35, .	4.0	119
12	Altimetry of the Venus cloud tops from the Venus Express observations. Journal of Geophysical Research, 2009, 114, .	3.3	119
13	South-polar features on Venus similar to those near the north pole. Nature, 2007, 450, 637-640.	27.8	110
14	The Surface Composition and Temperature of Asteroid 21 Lutetia As Observed by Rosetta/VIRTIS. Science, 2011, 334, 492-494.	12.6	110
15	Exposed water ice on the nucleus of comet 67P/Churyumovâ€"Gerasimenko. Nature, 2016, 529, 368-372.	27.8	104
16	A dynamic upper atmosphere of Venus as revealed by VIRTIS on Venus Express. Nature, 2007, 450, 641-645.	27.8	95
17	Models of the global cloud structure on Venus derived from Venus Express observations. Icarus, 2012, 217, 542-560.	2.5	95
18	JIRAM, the Jovian Infrared Auroral Mapper. Space Science Reviews, 2017, 213, 393-446.	8.1	91

#	Article	IF	Citations
19	Clusters of cyclones encircling Jupiterâ€™s poles. Nature, 2018, 555, 216-219.	27.8	90
20	Three-dimensional direct simulation Monte-Carlo modeling of the coma of comet 67P/Churyumov-Gerasimenko observed by the VIRTIS and ROSINA instruments on board Rosetta. Astronomy and Astrophysics, 2016, 588, A134.	5.1	88
21	Direct Simulation Monte Carlo modelling of the major species in the coma of comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S156-S169.	4.4	87
22	First detection of hydroxyl in the atmosphere of Venus. Astronomy and Astrophysics, 2008, 483, L29-L33.	5.1	86
23	Venus surface thermal emission at 1 Î¼m in VIRTIS imaging observations: Evidence for variation of crust and mantle differentiation conditions. Journal of Geophysical Research, 2008, 113, .	3.3	84
24	A latitudinal survey of CO, OCS, H₂O, and SO₂ in the lower atmosphere of Venus: Spectroscopic studies using VIRTISâ€H. Journal of Geophysical Research, 2008, 113, .	3.3	79
25	First observations of H₂O and CO₂vapor in comet 67P/Churyumov-Gerasimenko made by VIRTIS onboard Rosetta. Astronomy and Astrophysics, 2015, 583, A6.	5.1	77
26	Nearâ€IR oxygen nightglow observed by VIRTIS in the Venus upper atmosphere. Journal of Geophysical Research, 2009, 114, .	3.3	74
27	Water vapor near the cloud tops of Venus from Venus Express/VIRTIS dayside data. Icarus, 2012, 217, 561-569.	2.5	74
28	Virtis : an imaging spectrometer for the rosetta mission. Planetary and Space Science, 1998, 46, 1291-1304.	1.7	72
29	Evolution of CO₂, CH₄, and OCS abundances relative to H₂O in the coma of comet 67P around perihelion fromRosetta/VIRTIS-H observations. Monthly Notices of the Royal Astronomical Society, 2016, 462, S170-S183.	4.4	72
30	Atmospheric structure and dynamics as the cause of ultraviolet markings in the clouds of Venus. Nature, 2008, 456, 620-623.	27.8	69
31	Surface brightness variations seen by VIRTIS on Venus Express and implications for the evolution of the Lada Terra region, Venus. Geophysical Research Letters, 2008, 35, .	4.0	64
32	Water and carbon dioxide distribution in the 67P/Churyumov-Gerasimenko coma from VIRTIS-M infrared observations. Astronomy and Astrophysics, 2016, 589, A45.	5.1	62
33	Investigation into the disparate origin of CO2 and H2O outgassing for Comet 67/P. Icarus, 2016, 277, 78-97.	2.5	61
34	Seasonal exposure of carbon dioxide ice on the nucleus of comet 67P/Churyumov-Gerasimenko. Science, 2016, 354, 1563-1566.	12.6	61
35	Characterization of mesoscale gravity waves in the upper and lower clouds of Venus from VEXâ€VIRTIS images. Journal of Geophysical Research, 2008, 113, .	3.3	60
36	Investigation of air temperature on the nightside of Venus derived from VIRTIS-H on board Venus-Express. Icarus, 2012, 217, 640-647.	2.5	59

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37	Vertical structure of the Venus cloud top from the VeRa and VIRTIS observations onboard Venus Express. Icarus, 2012, 217, 599-609.	2.5	57
38	Visible and nearâ€infrared nightglow of molecular oxygen in the atmosphere of Venus. Journal of Geophysical Research, 2009, 114, .	3.3	56
39	Water vapor abundance near the surface of Venus from Venus Express/VIRTIS observations. Journal of Geophysical Research, 2009, 114, .	3.3	55
40	Venusâ€™s Southern Polar Vortex Reveals Precessing Circulation. Science, 2011, 332, 577-580.	12.6	54
41	The global surface composition of 67P/CG nucleus by Rosetta/VIRTIS. (I) Prelanding mission phase. Icarus, 2016, 274, 334-349.	2.5	54
42	Juno observations of spot structures and a split tail in Io-induced aurorae on Jupiter. Science, 2018, 361, 774-777.	12.6	53
43	Morphology and dynamics of Venus oxygen airglow from Venus Express/Visible and Infrared Thermal Imaging Spectrometer observations. Journal of Geophysical Research, 2008, 113, .	3.3	52
44	Measurements and modelling of high pressure pure CO2 spectra from 750 to 8500cmâ^'1. Iâ€"central and wing regions of the allowed vibrational bands. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 925-936.	2.3	51
45	Distribution of the O₂ infrared nightglow observed with VIRTIS on board Venus Express. Geophysical Research Letters, 2008, 35, .	4.0	50
46	Atomic oxygen on the Venus nightside: Global distribution deduced from airglow mapping. Icarus, 2012, 217, 849-855.	2.5	50
47	Venus Express: Scientific goals, instrumentation, and scenario of the mission. Cosmic Research, 2006, 44, 334-348.	0.6	48
48	Spatial variability of carbon monoxide in Venus' mesosphere from Venus Express/Visible and Infrared Thermal Imaging Spectrometer measurements. Journal of Geophysical Research, 2008, 113, .	3.3	48
49	Correlations between cloud thickness and subâ€cloud water abundance on Venus. Geophysical Research Letters, 2010, 37, .	4.0	47
50	SIMBIO-SYS: Scientific Cameras and Spectrometer for the BepiColombo Mission. Space Science Reviews, 2020, 216, 1.	8.1	47
51	The near-infrared nitric oxide nightglow in the upper atmosphere of Venus. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 985-988.	7.1	46
52	Water vapor near Venus cloud tops from VIRTIS-H/Venus express observations 2006â€"2011. Planetary and Space Science, 2015, 113-114, 219-225.	1.7	45
53	Calibration of the Planetary Fourier Spectrometer short wavelength channel. Planetary and Space Science, 2005, 53, 975-991.	1.7	43
54	Calibration of the Planetary Fourier Spectrometer long wavelength channel. Planetary and Space Science, 2005, 53, 993-1007.	1.7	43

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55	On-ground characterization of Rosetta/VIRTIS-M. I. Spectral and geometrical calibrations. Review of Scientific Instruments, 2006, 77, 093109.	1.3	42
56	Thermal structure of Venusian nighttime mesosphere as observed by VIRTISâ€Venus Express. Journal of Geophysical Research, 2010, 115, .	3.3	41
57	Carbon monoxide and temperature in the upper atmosphere of Venus from VIRTIS/Venus Express non-LTE limb measurements. Icarus, 2015, 248, 478-498.	2.5	41
58	The planetary fourier spectrometer (PFS) onboard the European Venus Express mission. Planetary and Space Science, 2006, 54, 1298-1314.	1.7	39
59	Evidence for anomalous cloud particles at the poles of Venus. Journal of Geophysical Research, 2008, 113, .	3.3	38
60	Vortex circulation on Venus: Dynamical similarities with terrestrial hurricanes. Geophysical Research Letters, 2009, 36, .	4.0	38
61	Tropospheric carbon monoxide concentrations and variability on Venus from Venus Express/VIRTISâ€M observations. Journal of Geophysical Research, 2008, 113, .	3.3	37
62	Scattering particles in nightside limb observations of Venusâ€™ upper atmosphere by Venus Express VIRTIS. Icarus, 2011, 211, 51-57.	2.5	36
63	Stationary waves and slowly moving features in the night upper clouds of Venus. Nature Astronomy, 2017, 1, .	10.1	35
64	On-ground characterization of Rosetta/VIRTIS-M. II. Spatial and radiometric calibrations. Review of Scientific Instruments, 2006, 77, 103106.	1.3	34
65	The changing temperature of the nucleus of comet 67P induced by morphological and seasonal effects. Nature Astronomy, 2019, 3, 649-658.	10.1	34
66	Cyclostrophic winds from the Visible and Infrared Thermal Imaging Spectrometer temperature sounding: A preliminary analysis. Journal of Geophysical Research, 2008, 113, .	3.3	33
67	Aeronomy of the Venus Upper Atmosphere. Space Science Reviews, 2017, 212, 1617-1683.	8.1	33
68	Water clouds and dust aerosols observations with PFS MEX at Mars. Planetary and Space Science, 2005, 53, 1065-1077.	1.7	32
69	Retrieval of air temperature profiles in the Venusian mesosphere from VIRTISâ€M data: Description and validation of algorithms. Journal of Geophysical Research, 2008, 113, .	3.3	32
70	The OH Venus nightglow spectrum: Intensity and vibrational composition from VIRTISâ€"Venus Express observations. Planetary and Space Science, 2012, 73, 387-396.	1.7	32
71	A chaotic long-lived vortex at the southern pole of Venus. Nature Geoscience, 2013, 6, 254-257.	12.9	32
72	The Venus nighttime atmosphere as observed by the VIRTISâ€M instrument. Average fields from the complete infrared data set. Journal of Geophysical Research E: Planets, 2014, 119, 837-849.	3.6	32

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73	The characteristics of the O2 Herzberg II and Chamberlain bands observed with VIRTIS/Venus Express. Icarus, 2013, 223, 609-614.	2.5	31
74	The comparative exploration of the ice giant planets with twin spacecraft: Unveiling the history of our Solar System. Planetary and Space Science, 2014, 104, 93-107.	1.7	31
75	The EChO science case. Experimental Astronomy, 2015, 40, 329-391.	3.7	31
76	Spatial correlation of OH Meinel and O2 infrared atmospheric nightglow emissions observed with VIRTIS-M on board Venus Express. Icarus, 2012, 217, 813-817.	2.5	30
77	No statistical evidence of lightning in Venus night-side atmosphere from VIRTIS-Venus Express Visible observations. Icarus, 2016, 277, 395-400.	2.5	30
78	Infrared observations of Jovian aurora from Juno's first orbits: Main oval and satellite footprints. Geophysical Research Letters, 2017, 44, 5308-5316.	4.0	30
79	Gravity waves in the upper atmosphere of Venus revealed by CO₂ nonlocal thermodynamic equilibrium emissions. Journal of Geophysical Research, 2009, 114, .	3.3	29
80	PFS: A fourier spectrometer for the study of Martian atmosphere. Advances in Space Research, 1997, 19, 1277-1280.	2.6	28
81	Solar migrating atmospheric tides in the winds of the polar region of Venus. Icarus, 2012, 220, 958-970.	2.5	28
82	Rotation period of Venus estimated from Venus Express VIRTIS images and Magellan altimetry. Icarus, 2012, 217, 474-483.	2.5	28
83	Atomic oxygen distribution in the Venus mesosphere from observations of O2 infrared airglow by VIRTIS-Venus Express. Icarus, 2009, 199, 264-272.	2.5	27
84	Limb observations of CO₂ and CO nonâ€LTE emissions in the Venus atmosphere by VIRTIS/Venus Express. Journal of Geophysical Research, 2009, 114, .	3.3	27
85	Experimental CO2 absorption coefficients at high pressure and high temperature. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 117, 21-28.	2.3	27
86	To the depths of Venus: Exploring the deep atmosphere and surface of our sister world with Venus Express. Planetary and Space Science, 2006, 54, 1263-1278.	1.7	26
87	The distributions of the OH Meinel and nightglow emissions in the Venus mesosphere based on VIRTIS observations. Advances in Space Research, 2010, 45, 1268-1275.	2.6	26
88	Concurrent observations of the ultraviolet nitric oxide and infrared O₂ nightglow emissions with Venus Express. Journal of Geophysical Research, 2009, 114, .	3.3	25
89	Variability of CO concentrations in the Venus troposphere from Venus Express/VIRTIS using a Band Ratio Technique. Icarus, 2009, 201, 432-443.	2.5	24
90	Venus express: Highlights of the nominal mission. Solar System Research, 2009, 43, 185-209.	0.7	24

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91	Refinements in the data analysis of VIRTIS-M-IR Venus nightside spectra. Advances in Space Research, 2012, 50, 228-255.	2.6	24
92	First Estimate of Wind Fields in the Jupiter Polar Regions From JIRAMâ€Juno Images. Journal of Geophysical Research E: Planets, 2018, 123, 1511-1524.	3.6	24
93	Twoâ€Year Observations of the Jupiter Polar Regions by JIRAM on Board Juno. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006098.	3.6	24
94	The Planetary Fourier Spectrometer (PFS) for the orbiter of the spacecraft Mars 96. Planetary and Space Science, 1996, 44, 889-897.	1.7	23
95	Infrared observations of Io from Juno. Icarus, 2020, 341, 113607.	2.5	23
96	PFS-MEX observation of ices in the residual south polar cap of Mars. Planetary and Space Science, 2005, 53, 1089-1095.	1.7	22
97	Radiative energy balance of Venus based on improved models of the middle and lower atmosphere. Icarus, 2016, 272, 178-205.	2.5	21
98	Modeling the atmospheric limb emission of CO2 at 4.3 Î¼m in the terrestrial planets. Planetary and Space Science, 2011, 59, 988-998.	1.7	20
99	Preliminary results on the composition of Jupiter's troposphere in hot spot regions from the JIRAM/Juno instrument. Geophysical Research Letters, 2017, 44, 4615-4624.	4.0	20
100	Preliminary JIRAM results from Juno polar observations: 2. Analysis of the Jupiter southern H‹sub›3‹/sub›‹sup›+‹/sup› emissions and comparison with the north aurora. Geophysical Research Letters, 2017, 44, 4633-4640.	4.0	20
101	Multivariate analysis of Visible and Infrared Thermal Imaging Spectrometer (VIRTIS) Venus Express nightside and limb observations. Journal of Geophysical Research, 2009, 114, .	3.3	19
102	Venus OH nightglow distribution based on VIRTIS limb observations from Venus Express. Geophysical Research Letters, 2010, 37, .	4.0	19
103	The radiative forcing variability caused by the changes of the upper cloud vertical structure in the Venus mesosphere. Planetary and Space Science, 2015, 113-114, 298-308.	1.7	19
104	Jupiterâ€™s hot spots: Quantitative assessment of the retrieval capabilities of future IR spectro-imagers. Planetary and Space Science, 2010, 58, 1265-1278.	1.7	18
105	Preliminary JIRAM results from Juno polar observations: 1. Methodology and analysis applied to the Jovian northern polar region. Geophysical Research Letters, 2017, 44, 4625-4632.	4.0	18
106	NIR reflectance spectroscopy of hydrated and anhydrous sodium carbonates at different temperatures. Icarus, 2019, 317, 388-411.	2.5	18
107	Time variations of O2(a1Î”) nightglow spots on the Venus nightside and dynamics of the upper mesosphere. Icarus, 2014, 237, 306-314.	2.5	17
108	Carbon dioxide opacity of the Venus×³ atmosphere. Planetary and Space Science, 2014, 103, 347-354.	1.7	17

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109	Reflectance spectroscopy of ammonium-bearing phyllosilicates. Icarus, 2019, 321, 522-530.	2.5	17
110	MA_MISS: Mars multispectral imager for subsurface studies. Advances in Space Research, 2001, 28, 1203-1208.	2.6	16
111	Search for active lava flows with VIRTIS on Venus Express. Journal of Geophysical Research E: Planets, 2017, 122, 1021-1045.	3.6	16
112	Temperature-dependent VNIR spectroscopy of hydrated Mg-sulfates. Icarus, 2017, 281, 444-458.	2.5	16
113	Infrared Observations of Ganymede From the Jovian InfraRed Auroral Mapper on Juno. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006508.	3.6	16
114	Infrared spectrometer PFS for the Mars 94 orbiter. Advances in Space Research, 1996, 17, 61-64.	2.6	15
115	VIRTIS/VEX observations of Venus: overview of selected scientific results. Journal of Applied Remote Sensing, 2012, 6, 063580-1.	1.3	15
116	Modeling VIRTIS/VEX O₂(a1âˆ†g) nightglow profiles affected by the propagation of gravity waves in the Venus upper mesosphere. Journal of Geophysical Research E: Planets, 2014, 119, 2300-2316.	3.6	15
117	Sensitivity of net thermal flux to the abundance of trace gases in the lower atmosphere of Venus. Journal of Geophysical Research E: Planets, 2016, 121, 1737-1752.	3.6	15
118	Characterization of the white ovals on Jupiter's southern hemisphere using the first data by the Juno/JIRAM instrument. Geophysical Research Letters, 2017, 44, 4660-4668.	4.0	15
119	Serendipitous infrared observations of Europa by Juno/JIRAM. Icarus, 2019, 328, 1-13.	2.5	15
120	Morphology of the Auroral Tail of Io, Europa, and Ganymede From JIRAM Lâ€Band Imager. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029450.	2.4	15
121	VIRTIS-M flight lamps. Review of Scientific Instruments, 2003, 74, 3796-3801.	1.3	14
122	VIS-NIR Imaging Spectroscopy of Mercury's Surface: SIMBIO-SYS/VIHI Experiment Onboard the BepiColombo Mission. IEEE Transactions on Geoscience and Remote Sensing, 2010, , .	6.3	14
123	Non-LTE CO limb emission at in the upper atmosphere of Venus, Mars and Earth: Observations and modeling. Planetary and Space Science, 2011, 59, 1010-1018.	1.7	14
124	Circulation of Venusian Atmosphere at 90â€“110ÂkmBased on Apparent Motions of the O₂ 1.27ÂÎ¼m Nightglow From VIRTISâ€M (Venus Express) Data. Geophysical Research Letters, 2018, 45, 2554-2562.	4.0	14
125	On the Spatial Distribution of Minor Species in Jupiter's Troposphere as Inferred From Juno JIRAM Data. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006206.	3.6	14
126	Oxygen nightglow emissions of Venus: Vertical distribution and collisional quenching. Icarus, 2013, 223, 602-608.	2.5	13

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127	Carbon dioxide absorption at high densities in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0002.gif" overflow="scroll"><mml:mn>1.18</mml:mn><mml:mspace width="0.25em" /><mml:mi mathvariant="normal">Î¼</mml:mi><mml:mi mathvariant="normal">m</mml:mi></mml:math> nightside transparency window of Venus. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 133, 464-471.	2.3	13
128	Preliminary JIRAM results from Juno polar observations: 3. Evidence of diffuse methane presence in the Jupiter auroral regions. Geophysical Research Letters, 2017, 44, 4641-4648.	4.0	13
129	IRIS Mariner 9 data revisited:. Planetary and Space Science, 2000, 48, 569-576.	1.7	12
130	Cloud structure in Venus middleâ€toâ€lower atmosphere as inferred from VEX/VIRTIS 1.74 Î¼m data. Journal of Geophysical Research, 2009, 114, .	3.3	12
131	Radiative Energy Balance in the Venus Atmosphere. , 2013, , 23-53.		12
132	Regions of interest on Ganymede's and Callisto's surfaces as potential targets for ESA's JUICE mission. Planetary and Space Science, 2021, 208, 105324.	1.7	12
133	Venus surface data extraction from VIRTIS/Venus Express measurements: Estimation of a quantitative approach. Journal of Geophysical Research, 2008, 113, .	3.3	11
134	Limb Darkening study using Venus nightside infrared spectra from VIRTIS-Venus Express data. Planetary and Space Science, 2012, 69, 62-75.	1.7	11
135	Comparative analysis of airglow emissions in terrestrial planets, observed with VIRTIS-M instruments on board Rosetta and Venus Express. Icarus, 2013, 226, 1115-1127.	2.5	11
136	Molecular dynamics simulations for CO2 spectra. IV. Collisional line-mixing in infrared and Raman bands. Journal of Chemical Physics, 2013, 138, 244310.	3.0	11
137	Latitudinal structure of the Venus O2 infrared airglow: A signature of small-scale dynamical processes in the upper atmosphere. Icarus, 2014, 236, 92-103.	2.5	11
138	H3+ characteristics in the Jupiter atmosphere as observed at limb with Juno/JIRAM. Icarus, 2019, 329, 132-139.	2.5	11
139	Oscillations and Stability of the Jupiter Polar Cyclones. Geophysical Research Letters, 2021, 48, e2021GL094235.	4.0	11
140	Results of measurements with the Planetary Fourier Spectrometer onboard Mars Express: Clouds and dust at the end of southern summer. A comparison with OMEGA images. Cosmic Research, 2006, 44, 305-316.	0.6	10
141	Martian atmosphere as observed by VIRTISâ€M on Rosetta spacecraft. Journal of Geophysical Research, 2010, 115, .	3.3	10
142	Using the transit of Venus to probe the upper planetary atmosphere. Nature Communications, 2015, 6, 7563.	12.8	10
143	and seasonal variability. Monthly Notices of the Royal Astronomical Society, 0, , stw3177.	4.4	10
144	VIRTIS imaging spectrometer for the ESA/Venus Express mission. , 2004, , .		9

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145	A Martian PFS average spectrum: Comparison with ISO SWS. Planetary and Space Science, 2005, 53, 1043-1052.	1.7	9
146	Oxygen airglow emission on Venus and Mars as seen by VIRTIS/VEX and OMEGA/MEX imaging spectrometers. Planetary and Space Science, 2011, 59, 981-987.	1.7	9
147	Validation of the IPSL Venus GCM Thermal Structure with Venus Express Data. Atmosphere, 2019, 10, 584.	2.3	9
148	Optical definition of the Planetary Fourier Spectrometer (PFS): an FTIR spectrometer for the Mars '96 mission. , 1994, , .		8
149	Analysis of IR-bright regions of Jupiter in JIRAM-Juno data: Methods and validation of algorithms. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 202, 200-209.	2.3	8
150	Mapping Io's Surface Composition With Juno/JIRAM. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006522.	3.6	8
151	Efficiency measurements of the VIRTIS-M grating. Planetary and Space Science, 2000, 48, 411-417.	1.7	7
152	Analysis of thermal emission from the nightside of Venus at 1.51 and 1.55 Î¼m. Icarus, 2009, 201, 814-817.	2.5	7
153	Investigation of oxygen O2(a1Î" g) emission on the nightside of Venus: Nadir data of the VIRTIS-M experiment of the Venus Express mission. Cosmic Research, 2010, 48, 232-239.	0.6	7
154	Hydroxyl airglow on Venus in comparison with Earth. Planetary and Space Science, 2011, 59, 974-980.	1.7	7
155	Terrestrial <scp>OH</scp> nightglow measurements during the <scp>Rosetta</scp> flyby. Geophysical Research Letters, 2015, 42, 5670-5677.	4.0	7
156	Temperature-dependent, VIS-NIR reflectance spectroscopy of sodium sulfates. Icarus, 2021, 357, 114165.	2.5	7
157	Calibration of Hyperspectral Imaging Data: VIRTIS-M Onboard Venus Express. IEEE Transactions on Geoscience and Remote Sensing, 2010, , .	6.3	6
158	Extrasampling and thermal behavior of diode lasers used as a reference source in a Fourier transform IR spectrometer. Applied Optics, 1997, 36, 6774.	2.1	5
159	MARS-IRMA: in-situ infrared microscope analysis of Martian soil and rock samples.. Advances in Space Research, 2001, 28, 1219-1224.	2.6	5
160	Pre-launch calibrations of the Vis-IR Hyperspectral Imager (VIHI) onboard BepiColombo, the ESA mission to Mercury. Proceedings of SPIE, 2013, , .	0.8	5
161	Juno/JIRAM: Planning and commanding activities. Advances in Space Research, 2020, 65, 598-615.	2.6	5
162	Preliminary estimation of the detection possibilities of Ganymedeâ€™s water vapor environment with MAJIS. Planetary and Space Science, 2020, 191, 105004.	1.7	5

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163	On the clouds and ammonia in Jupiterâ€™s upper troposphere from Juno JIRAM reflectivity observations. Monthly Notices of the Royal Astronomical Society, 2021, 503, 4892-4907.	4.4	5
164	Planetary Fourier spectrometer: An interferometer for atmospheric studies on board Mars 94 mission. Il Nuovo Cimento Della SocietÃ Italiana Di Fisica C, 1993, 16, 575-588.	0.2	4
165	The spectroscopic performances of the Planetary Fourier Spectrometer for the Mars '96 mission. Planetary and Space Science, 1997, 45, 409-418.	1.7	4
166	The radiometric performances of the Planetary Fourier Spectrometer for Mars exploration. Planetary and Space Science, 1999, 47, 441-450.	1.7	4
167	VIRTIS-M laboratory spectral measurements of analogues cometary samples. Planetary and Space Science, 2000, 48, 401-410.	1.7	4
168	Near-infrared Rayleigh scattering of SF6. Molecular Physics, 2013, 111, 2314-2319.	1.7	4
169	VIRTIS on Rosetta: a unique technique to observe comet 67P/Churyumov-Gerasimenko â€“ first results and prospects. Proceedings of SPIE, 2015, , .	0.8	4
170	Temperature dependence of collisional induced absorption (CIA) bands of CO2 with implications for Venusâ€™ atmosphere. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 204, 242-249.	2.3	4
171	Virtis Experiment at Churyumov â€” Gerasimenko Comet, New Rosetta Target. Astrophysics and Space Science Library, 2004, , 223-236.	2.7	4
172	JIRAM, the Jovian Infrared Auroral Mapper. , 2014, , 271-324.		4
173	VIS-IR spectroscopy of magnesium chlorides at cryogenic temperatures. Icarus, 2022, 373, 114756.	2.5	4
174	First observations of the planetary Fourier spectrometer at Mars. Advances in Space Research, 2005, 36, 1074-1083.	2.6	3
175	Calibration pipeline of VIS-NIR imaging spectrometers for planetary exploration: The rosetta VIRTIS-M case. , 2009, , .		3
176	Venus atmospheric and surface studies from VIRTIS on Venus Express. , 2011, , .		3
177	An integrated payload design for the Exoplanet Characterisation Observatory (EChO). , 2012, , .		3
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