## List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Exploring The Saturn System In The Thermal Infrared: The Composite Infrared Spectrometer. Space Science Reviews, 2004, 115, 169-297.	8.1	275
2	Jupiter's interior and deep atmosphere: The initial pole-to-pole passes with the Juno spacecraft. Science, 2017, 356, 821-825.	12.6	229
3	The Juno Mission. Space Science Reviews, 2017, 213, 5-37.	8.1	222
4	Infrared polar brightening on Jupiter. Icarus, 1985, 64, 233-248.	2.5	137
5	Optical properties of NH_3 ice from the far infrared to the near ultraviolet. Applied Optics, 1984, 23, 541.	2.1	129
6	The distribution of ammonia on Jupiter from a preliminary inversion of Juno microwave radiometer data. Geophysical Research Letters, 2017, 44, 5317-5325.	4.0	108
7	Galileo Imaging of Jupiter's Atmosphere: The Great Red Spot, Equatorial Region, and White Ovals. Icarus, 1998, 135, 265-275.	2.5	106
8	Jupiter's atmospheric temperatures: From Voyager IRIS to Cassini CIRS. Icarus, 2006, 180, 98-112.	2.5	104
9	An intense stratospheric jet on Jupiter. Nature, 2004, 427, 132-135.	27.8	103
10	Temperature and Composition of Saturn's Polar Hot Spots and Hexagon. Science, 2008, 319, 79-81.	12.6	103
11	The quasiquadrennial oscillation of Jupiter's equatorial stratosphere. Nature, 1991, 354, 380-382.	27.8	100
12	The water abundance in Jupiter's equatorial zone. Nature Astronomy, 2020, 4, 609-616.	10.1	96
13	Characteristics of the Galileo probe entry site from Earth-based remote sensing observations. Journal of Geophysical Research, 1998, 103, 22791-22814.	3.3	90
14	Clusters of cyclones encircling Jupiter's poles. Nature, 2018, 555, 216-219.	27.8	90
15	Thermal Maps of Jupiter: Spatial Organization and Time Dependence of Stratospheric Temperatures, 1980 to 1990. Science, 1991, 252, 537-542.	12.6	88
16	The clouds of Jupiter: Results of the Galileo Jupiter Mission Probe Nephelometer Experiment. Journal of Geophysical Research, 1998, 103, 22891-22909.	3.3	88
17	FIRST RESULTS FROM THE HUBBLE OPAL PROGRAM: JUPITER IN 2015. Astrophysical Journal, 2015, 812, 55.	4.5	88
18	Saturn's tropospheric composition and clouds from Cassini/VIMS 4.6–5.1μm nightside spectroscopy. Icarus, 2011, 214, 510-533.	2.5	84

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19	Evolution and persistence of 5-μm hot spots at the Galileo probe entry latitude. Journal of Geophysical Research, 1998, 103, 23051-23069.	3.3	83
20	Galileo probe measurements of thermal and solar radiation fluxes in the Jovian atmosphere. Journal of Geophysical Research, 1998, 103, 22929-22977.	3.3	83
21	Depth of a strong jovian jet from a planetary-scale disturbance driven by storms. Nature, 2008, 451, 437-440.	27.8	82
22	Semi-annual oscillations in Saturn's low-latitude stratospheric temperatures. Nature, 2008, 453, 196-199.	27.8	77
23	Hydrogen Dimers in Giant-planet Infrared Spectra. Astrophysical Journal, Supplement Series, 2018, 235, 24.	7.7	77
24	Cloud structure and atmospheric composition of Jupiter retrieved from Galileo near-infrared mapping spectrometer real-time spectra. Journal of Geophysical Research, 1998, 103, 23001-23021.	3.3	76
25	The D/H ratio in the atmospheres of Uranus and Neptune from <i>Herschel</i> -PACS observations. Astronomy and Astrophysics, 2013, 551, A126.	5.1	76
26	The spectra of Uranus and Neptune at 8–14 and 17–23 μm. Icarus, 1987, 70, 1-12.	2.5	75
27	Neptune's atmospheric composition from AKARI infrared spectroscopy. Astronomy and Astrophysics, 2010, 514, A17.	5.1	73
28	Changes in Jupiter's Zonal Wind Profile preceding and during the Juno mission. Icarus, 2017, 296, 163-178.	2.5	70
29	Saturn's Temperature Field from High-Resolution Middle-Infrared Imaging. Science, 2005, 307, 696-698.	12.6	68
30	Response of Jupiter's auroras to conditions in the interplanetary medium as measured by the Hubble Space Telescope and Juno. Geophysical Research Letters, 2017, 44, 7643-7652.	4.0	68
31	Neptune's global circulation deduced from multi-wavelength observations. Icarus, 2014, 237, 211-238.	2.5	64
32	MWR: Microwave Radiometer for the Juno Mission to Jupiter. Space Science Reviews, 2017, 213, 139-185.	8.1	64
33	Seasonal change on Saturn from Cassini/CIRS observations, 2004–2009. Icarus, 2010, 208, 337-352.	2.5	63
34	Earth-Based Observations of the Galileo Probe Entry Site. Science, 1996, 272, 839-840.	12.6	59
35	Evidence for methane escape and strong seasonal and dynamical perturbations of Neptune's atmospheric temperatures. Astronomy and Astrophysics, 2007, 473, L5-L8.	5.1	59
36	Spatial Organization and Time Dependence of Jupiter's Tropospheric Temperatures, 1980-1993. Science, 1994, 265, 625-631.	12.6	58

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37	Analysis of Jupiter north equatorial belt hot spots in the 4-5 μm range from Galileo/near-infrared mapping spectrometer observations: Measurements of cloud opacity, water, and ammonia. Journal of Geophysical Research, 1998, 103, 23023-23041.	3.3	56
38	Mid-infrared spectroscopy of Uranus from the Spitzer Infrared Spectrometer: 1. Determination of the mean temperature structure of the upper troposphere and stratosphere. Icarus, 2014, 243, 494-513.	2.5	56
39	Thermal spectroscopy of Neptune: The stratospheric temperature, hydrocarbon abundances, and isotopic ratios. Icarus, 1992, 100, 541-555.	2.5	55
40	Mid-infrared spectroscopy of Uranus from the Spitzer infrared spectrometer: 2. Determination of the mean composition of the upper troposphere and stratosphere. Icarus, 2014, 243, 471-493.	2.5	53
41	Jupiter's Aurora Observed With HST During Juno Orbits 3 to 7. Journal of Geophysical Research: Space Physics, 2018, 123, 3299-3319.	2.4	53
42	Polar Lightning and Decadal-Scale Cloud Variability on Jupiter. Science, 2007, 318, 226-229.	12.6	52
43	Prevalent lightning sferics at 600 megahertz near Jupiter's poles. Nature, 2018, 558, 87-90.	27.8	52
44	Less absorbed solar energy and more internal heat for Jupiter. Nature Communications, 2018, 9, 3709.	12.8	50
45	The independent pulsations of Jupiter's northern and southern X-ray auroras. Nature Astronomy, 2017, 1, 758-764.	10.1	49
46	Neptune at summer solstice: Zonal mean temperatures from ground-based observations, 2003–2007. Icarus, 2014, 231, 146-167.	2.5	48
47	Instrumental methods for professional and amateur collaborations in planetary astronomy. Experimental Astronomy, 2014, 38, 91-191.	3.7	47
48	Infrared polar brightenings on Jupiter. Icarus, 1988, 74, 331-339.	2.5	45
49	Junocam: Juno's Outreach Camera. Space Science Reviews, 2017, 213, 475-506.	8.1	42
50	Revised ab initio models for H2–H2 collision-induced absorption at low temperatures. Icarus, 2007, 189, 544-549.	2.5	41
51	A spatially resolved high spectral resolution study of Neptune's stratosphere. Icarus, 2011, 214, 606-621.	2.5	41
52	Seasonal stratospheric photochemistry on Uranus and Neptune. Icarus, 2018, 307, 124-145.	2.5	40
53	Disruption of Saturn's quasi-periodic equatorial oscillation by the great northern storm. Nature Astronomy, 2017, 1, 765-770.	10.1	37
54	A hexagon in Saturn's northern stratosphere surrounding the emerging summertime polar vortex. Nature Communications, 2018, 9, 3564.	12.8	36

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55	A planetaryâ€scale disturbance in the most intense Jovian atmospheric jet from JunoCam and groundâ€based observations. Geophysical Research Letters, 2017, 44, 4679-4686.	4.0	35
56	CHANGING CHARACTERISTICS OF JUPITER'S LITTLE RED SPOT. Astronomical Journal, 2008, 135, 2446-2452.	4.7	33
57	Implications of the ammonia distribution on Jupiter from 1 to 100Âbars as measured by the Juno microwave radiometer. Geophysical Research Letters, 2017, 44, 7676-7685.	4.0	31
58	New Observations and Modeling of Jupiter's Quasiâ€Quadrennial Oscillation. Journal of Geophysical Research E: Planets, 2017, 122, 2719-2744.	3.6	30
59	The first closeâ€up images of Jupiter's polar regions: Results from the Juno mission JunoCam instrument. Geophysical Research Letters, 2017, 44, 4599-4606.	4.0	29
60	The Gas Composition and Deep Cloud Structure of Jupiter's Great Red Spot. Astronomical Journal, 2018, 156, 101.	4.7	29
61	Historical and Contemporary Trends in the Size, Drift, and Color of Jupiter's Great Red Spot. Astronomical Journal, 2018, 155, 151.	4.7	28
62	Wind variations in Jupiter's equatorial atmosphere: A QQO counterpart?. Icarus, 2007, 186, 192-203.	2.5	27
63	New constraints on the CH <sub>4</sub> vertical profile in Uranus and Neptune from <i>Herschel</i> observations. Astronomy and Astrophysics, 2015, 579, A121.	5.1	27
64	First ALMA Millimeter-wavelength Maps of Jupiter, with a Multiwavelength Study of Convection. Astronomical Journal, 2019, 158, 139.	4.7	27
65	Latitudinal variation in the abundance of methane (CH4) above the clouds in Neptune's atmosphere from VLT/MUSE Narrow Field Mode Observations. Icarus, 2019, 331, 69-82.	2.5	26
66	Junoâ€UVS approach observations of Jupiter's auroras. Geophysical Research Letters, 2017, 44, 7668-7675.	4.0	25
67	High-resolution UV/Optical/IR Imaging of Jupiter in 2016–2019. Astrophysical Journal, Supplement Series, 2020, 247, 58.	7.7	25
68	Distribution of Ethane and Methane Emission on Neptune. Astronomical Journal, 2007, 134, 637-641.	4.7	24
69	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
70	Storms and the Depletion of Ammonia in Jupiter: II. Explaining the Juno Observations. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006404.	3.6	24
71	Two‥ear Observations of the Jupiter Polar Regions by JIRAM on Board Juno. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006098.	3.6	24
72	Microwave observations reveal the deep extent and structure of Jupiter's atmospheric vortices. Science, 2021, 374, 968-972.	12.6	23

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73	Thermal imaging of Uranus: Upper-tropospheric temperatures one season after Voyager. Icarus, 2015, 260, 94-102.	2.5	22
74	A New Dark Vortex on Neptune. Astronomical Journal, 2018, 155, 117.	4.7	22
75	Ice Giant Circulation Patterns: Implications for Atmospheric Probes. Space Science Reviews, 2020, 216, 21.	8.1	22
76	Jupiter's North Equatorial Belt expansion and thermal wave activity ahead of Juno's arrival. Geophysical Research Letters, 2017, 44, 7140-7148.	4.0	21
77	Colour and tropospheric cloud structure of Jupiter from MUSE/VLT: Retrieving a universal chromophore. Icarus, 2020, 338, 113589.	2.5	21
78	Uranus' cloud particle properties and latitudinal methane variation from IRTF SpeX observations. Icarus, 2013, 223, 684-698.	2.5	20
79	DRAMATIC CHANGE IN JUPITER'S GREAT RED SPOT FROM SPACECRAFT OBSERVATIONS. Astrophysical Journal Letters, 2014, 797, L31.	8.3	20
80	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
81	The Rich Dynamics of Jupiter's Great Red Spot from JunoCam: Juno Images. Astronomical Journal, 2018, 156, 162.	4.7	19
82	Infrared Characterization of Jupiter's Equatorial Disturbance Cycle. Geophysical Research Letters, 2018, 45, 10,987.	4.0	19
83	Rotational Light Curves of Jupiter from Ultraviolet to Mid-infrared and Implications for Brown Dwarfs and Exoplanets. Astronomical Journal, 2019, 157, 89.	4.7	19
84	Evidence for Multiple Ferrel‣ike Cells on Jupiter. Geophysical Research Letters, 2021, 48, e2021GL095651.	4.0	18
85	Hazy Blue Worlds: A Holistic Aerosol Model for Uranus and Neptune, Including Dark Spots. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	18
86	Jupiter's Mesoscale Waves Observed at 5 μm by Ground-based Observations and Juno JIRAM. Astronomical Journal, 2018, 156, 67.	4.7	17
87	A brightening of Jupiter's auroral 7.8-μm CH4 emission during a solar-wind compression. Nature Astronomy, 2019, 3, 607-613.	10.1	17
88	Jupiter's Atmospheric Variability from Long-term Ground-based Observations at 5 μm. Astronomical Journal, 2019, 158, 130.	4.7	17
89	Fluctuations in Jupiter's equatorial stratospheric oscillation. Nature Astronomy, 2021, 5, 71-77.	10.1	17
90	Jupiter's Temperate Belt/Zone Contrasts Revealed at Depth by Juno Microwave Observations. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006858.	3.6	17

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91	Equatorial winds on Saturn and the stratosphericÂoscillation. Nature Geoscience, 2011, 4, 750-752.	12.9	16
92	Constraints on Uranus's haze structure, formation and transport. Icarus, 2019, 333, 1-11.	2.5	16
93	The solar reflected component in Jupiter's 5-μm spectra from NIMS/Galileo observations. Journal of Geophysical Research, 1998, 103, 23043-23049.	3.3	15
94	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
95	<i>Herschel</i> map of Saturn's stratospheric water, delivered by the plumes of Enceladus. Astronomy and Astrophysics, 2019, 630, A87.	5.1	15
96	Uranus in Northern Midspring: Persistent Atmospheric Temperatures and Circulations Inferred from Thermal Imaging. Astronomical Journal, 2020, 159, 45.	4.7	15
97	Multipleâ€wavelength sensing of Jupiter during the Juno mission's first perijove passage. Geophysical Research Letters, 2017, 44, 4607-4614.	4.0	14
98	A New, Long-lived, Jupiter Mesoscale Wave Observed at Visible Wavelengths. Astronomical Journal, 2018, 156, 79.	4.7	14
99	Vertically-resolved observations of Jupiter's quasi-quadrennial oscillation from 2012 to 2019. Icarus, 2020, 350, 113905.	2.5	14
100	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
101	Recovery and characterization of Neptune's near-polar stratospheric hot spot. Planetary and Space Science, 2012, 61, 161-167.	1.7	13
102	Jupiter's Equatorial Plumes and Hot Spots: Spectral Mapping from Gemini/TEXES and Juno/MWR. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006399.	3.6	13
103	Constraints on the Latitudinal Profile of Jupiter's Deep Jets. Geophysical Research Letters, 2021, 48, e2021GL092912.	4.0	13
104	Independent evolution of stratospheric temperatures in Jupiter's northern and southern auroral regions from 2014 to 2016. Geophysical Research Letters, 2017, 44, 5345-5354.	4.0	12
105	Ammonia in Jupiter's Troposphere From Highâ€Resolution 5Âμm Spectroscopy. Geophysical Research Letters, 2017, 44, 10,838.	4.0	12
106	Angular Dependence and Spatial Distribution of Jupiter's Centimeterâ€Wave Thermal Emission From Juno's Microwave Radiometer. Earth and Space Science, 2020, 7, e2020EA001254.	2.6	12
107	Jupiter's Great Red Spot: Strong Interactions With Incoming Anticyclones in 2019. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006686.	3.6	12
108	Strong Temporal Variation Over One Saturnian Year: From Voyager to Cassini. Scientific Reports, 2013, 3, 2410.	3.3	11

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109	Jupiter's Overturning Circulation: Breaking Waves Take the Place of Solid Boundaries. Geophysical Research Letters, 2021, 48, e2021GL095756.	4.0	11
110	Jupiter's Temperature Structure: A Reassessment of the Voyager Radio Occultation Measurements. Planetary Science Journal, 2022, 3, 159.	3.6	11
111	Uranus's Northern Polar Cap in 2014. Geophysical Research Letters, 2018, 45, 5329-5335.	4.0	10
112	Spatial Variations in the Altitude of the CH <sub>4</sub> Homopause at Jupiter's Mid-to-high Latitudes, as Constrained from IRTF-TEXES Spectra. Planetary Science Journal, 2020, 1, 85.	3.6	9
113	Subseasonal Variation in Neptune's Mid-infrared Emission. Planetary Science Journal, 2022, 3, 78.	3.6	9
114	Mapping of Jupiter's tropospheric NH 3 abundance using ground-based IRTF/TEXES observations at 5â€ <sup>−</sup> µm. Icarus, 2018, 314, 106-120.	2.5	8
115	Turbulence Power Spectra in Regions Surrounding Jupiter's South Polar Cyclones From Juno/JIRAM. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006096.	3.6	8
116	Images of Jupiter from the pioneer 10 and pioneer 11 infrared radiometers: A comparison with visible and 5-1¼m images. Icarus, 1981, 47, 145-158.	2.5	7
117	A Survey of Smallâ€Scale Waves and Waveâ€Like Phenomena in Jupiter's Atmosphere Detected by JunoCam. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006369.	3.6	7
118	Vertical Structure and Color of Jovian Latitudinal Cloud Bands during the Juno Era. Planetary Science Journal, 2021, 2, 16.	3.6	7
119	Longitudinal variations in the stratosphere of Uranus from the Spitzer infrared spectrometer. Icarus, 2021, 365, 114506.	2.5	6
120	The organization of Jupiter's upper tropospheric temperature structure and its evolution, 1996–1997. Icarus, 2016, 280, 268-277.	2.5	5
121	Characterization of Mesoscale Waves in the Jupiter NEB by Jupiter InfraRed Auroral Mapper on board Juno. Astronomical Journal, 2018, 156, 246.	4.7	5
122	Constraints on Neptune's haze structure and formation from VLT observations in the H-band. Icarus, 2020, 350, 113808.	2.5	5
123	On the clouds and ammonia in Jupiter's upper troposphere from Juno JIRAM reflectivity observations. Monthly Notices of the Royal Astronomical Society, 2021, 503, 4892-4907.	4.4	5
124	The Effects of Waves on the Meridional Thermal Structure of Jupiter's Stratosphere. Planetary Science Journal, 2020, 1, 63.	3.6	5
125	Convective storms in closed cyclones in Jupiter's South Temperate Belt: (I) observations. Icarus, 2022, 380, 114994.	2.5	5
126	Observations and Electron Density Retrievals of Jupiter's Discrete Auroral Arcs Using the Juno Microwave Radiometer. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006293.	3.6	4

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127	Characterizing Temperature and Aerosol Variability During Jupiter's 2006–2007 Equatorial Zone Disturbance. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006413. Spatial structure in Neptune's 7.90- <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td>3.6</td><td>4</td></mml:math>	3.6	4
128	display="inline" id="d1e792" altimg="si54.svg"> <mml:mi mathvariant="normal">î1¼</mml:mi> m stratospheric CH <mml:math <br="" display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML">id="d1e797" altimg="si55.svg"&gt;<mml:msub><mml:mrow /&gt;<mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:mrow </mml:msub></mml:math> emission, as measured by	2.5	4
129	VLT-VISIR. Icarus, 2020, 345, 113748. SOFIA Observations of Variability in Jupiter's Para-H <sub>2</sub> Distribution and Subsurface Emission Characteristics of the Galilean Satellites. Planetary Science Journal, 2021, 2, 226.	3.6	4
130	Residual Study: Testing Jupiter Atmosphere Models Against Juno MWR Observations. Earth and Space Science, 2020, 7, e2020EA001229.	2.6	3
131	Ground-Based Observational Support for Spacecraft Exploration of the Outer Planets. Earth, Moon and Planets, 2009, 105, 143-152.	0.6	2
132	Wave Activity in Jupiter's North Equatorial Belt From Nearâ€Infrared Reflectivity Observations. Geophysical Research Letters, 2019, 46, 1232-1241.	4.0	2
133	Review of Knowledge Prior to the Cassini-Huygens Mission and Concurrent Research. , 2009, , 9-54.		2
134	The Future Exploration of Saturn. , 2018, , 417-441.		0