

Patrick Gj Irwin

List of Publications by Year in descending order

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221
papers

9,473
citations

29994

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54797

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245
times ranked

3735
citing authors

#	ARTICLE	IF	CITATIONS
1	New Constraints on Titan's Stratospheric n-Butane Abundance. <i>Planetary Science Journal</i> , 2022, 3, 59.	1.5	2
2	Subseasonal Variation in Neptune's Mid-infrared Emission. <i>Planetary Science Journal</i> , 2022, 3, 78.	1.5	9
3	Uranus's and Neptune's Stratospheric Water Abundance and Vertical Profile from Herschel-HIFI*. <i>Planetary Science Journal</i> , 2022, 3, 96.	1.5	0
4	Seasonal Changes in the Vertical Structure of Ozone in the Martian Lower Atmosphere and Its Relationship to Water Vapor. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	4
5	Hazy Blue Worlds: A Holistic Aerosol Model for Uranus and Neptune, Including Dark Spots. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	18
6	Variability in Titan's Mesospheric HCN and Temperature Structure as Observed by ALMA. <i>Planetary Science Journal</i> , 2022, 3, 146.	1.5	2
7	Vertical distribution of water vapour for Martian northern hemisphere summer in Mars Year 28 from Mars Climate Sounder. <i>Icarus</i> , 2022, 386, 115141.	1.1	0
8	Neptune's HCl upper limit from Herschel/HIFI. <i>Icarus</i> , 2021, 354, 114045.	1.1	1
9	Potential vorticity structure of Titan's polar vortices from Cassini CIRS observations. <i>Icarus</i> , 2021, 354, 114030.	1.1	17
10	Seasonal reappearance of HCl in the atmosphere of Mars during the Mars year 35 dusty season. <i>Astronomy and Astrophysics</i> , 2021, 647, A161.	2.1	17
11	Latitudinal variation of methane mole fraction above clouds in Neptune's atmosphere from VLT/MUSE-NFM: Limb-darkening reanalysis. <i>Icarus</i> , 2021, 357, 114277.	1.1	9
12	Upper limits for phosphine (PH ₃) in the atmosphere of Mars. <i>Astronomy and Astrophysics</i> , 2021, 649, L1.	2.1	4
13	Isotopic fractionation of water and its photolytic products in the atmosphere of Mars. <i>Nature Astronomy</i> , 2021, 5, 943-950.	4.2	27
14	No evidence of phosphine in the atmosphere of Venus from independent analyses. <i>Nature Astronomy</i> , 2021, 5, 631-635.	4.2	50
15	How does thermal scattering shape the infrared spectra of cloudy exoplanets? A theoretical framework and consequences for atmospheric retrievals in the JWST era. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 1309-1332.	1.6	14
16	Meridional Variations of C ₂ H ₂ in Jupiter's Stratosphere From Juno UVS Observations. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006928.	1.5	5
17	Longitudinal variations in the stratosphere of Uranus from the Spitzer infrared spectrometer. <i>Icarus</i> , 2021, 365, 114506.	1.1	6
18	Vertical Structure and Color of Jovian Latitudinal Cloud Bands during the Juno Era. <i>Planetary Science Journal</i> , 2021, 2, 16.	1.5	7

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19	Vertical Distribution of Aerosols and Hazes Over Jupiter's Great Red Spot and Its Surroundings in 2016 From HST/WFC3 Imaging. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006996.	1.5	4
20	Isotopic Composition of CO ₂ in the Atmosphere of Mars: Fractionation by Diffusive Separation Observed by the ExoMars Trace Gas Orbiter. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, .	1.5	12
21	Seasonal evolution of temperatures in Titan's lower stratosphere. <i>Icarus</i> , 2020, 344, 113188.	1.1	13
22	Mapping the zonal structure of Titan's northern polar vortex. <i>Icarus</i> , 2020, 337, 113441.	1.1	12
23	Colour and tropospheric cloud structure of Jupiter from MUSE/VLT: Retrieving a universal chromophore. <i>Icarus</i> , 2020, 338, 113589.	1.1	21
24	Uranus in Northern Midspring: Persistent Atmospheric Temperatures and Circulations Inferred from Thermal Imaging. <i>Astronomical Journal</i> , 2020, 159, 45.	1.9	15
25	Understanding and mitigating biases when studying inhomogeneous emission spectra with <i>JWST</i>. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 4342-4354.	1.6	63
26	The role of ice lines in the formation of Uranus and Neptune. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20200107.	1.6	15
27	Neptune and Uranus: ice or rock giants?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190489.	1.6	20
28	2.5D retrieval of atmospheric properties from exoplanet phase curves: application to WASP-43b observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 106-125.	1.6	57
29	Constraints on Neptune's haze structure and formation from VLT observations in the H-band. <i>Icarus</i> , 2020, 350, 113808.	1.1	5
30	Jupiter in the Ultraviolet: Acetylene and Ethane Abundances in the Stratosphere of Jupiter from Cassini Observations between 0.15 and 0.19 μm . <i>Astronomical Journal</i> , 2020, 159, 291.	1.9	11
31	Ice Giant Circulation Patterns: Implications for Atmospheric Probes. <i>Space Science Reviews</i> , 2020, 216, 21.	3.7	22
32	Stormy water on Mars: The distribution and saturation of atmospheric water during the dusty season. <i>Science</i> , 2020, 367, 297-300.	6.0	117
33	Spatial structure in Neptune's CH_4 stratospheric emission, as measured by VLT-VISIR. <i>Icarus</i> , 2020, 345, 113748.	1.1	4
34	C ₂ N ₂ Vertical Profile in Titan's Stratosphere. <i>Astronomical Journal</i> , 2020, 160, 178.	1.9	3
35	Detection of Cyclopropenylidene on Titan with ALMA. <i>Astronomical Journal</i> , 2020, 160, 205.	1.9	36
36	Detection of CH ₃ C ₃ N in Titan's Atmosphere. <i>Astrophysical Journal Letters</i> , 2020, 903, L22.	3.0	11

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37	Spatial Variations in the Altitude of the CH ₄ Homopause at Jupiter's Mid-to-high Latitudes, as Constrained from IRTF-TEXES Spectra. Planetary Science Journal, 2020, 1, 85.	1.5	9
38	Uranus's Stratospheric HCl Upper Limit from Herschel/SPIRE*. Research Notes of the AAS, 2020, 4, 191.	0.3	0
39	Detection of Propadiene on Titan. Astrophysical Journal Letters, 2019, 881, L33.	3.0	21
40	Exoplanetary Monte Carlo radiative transfer with correlated- <i>k</i> . I. Benchmarking transit and emission observables. Monthly Notices of the Royal Astronomical Society, 2019, 487, 2082-2096.	1.6	21
41	Oxygen isotopic ratios in Martian water vapour observed by ACS MIR on board the ExoMars Trace Gas Orbiter. Astronomy and Astrophysics, 2019, 630, A91.	2.1	24
42	Towards the analysis of JWST exoplanet spectra: the effective temperature in the context of direct imaging. Monthly Notices of the Royal Astronomical Society, 2019, 490, 2086-2090.	1.6	0
43	Measurement of CH ₃ D on Titan at Submillimeter Wavelengths. Astronomical Journal, 2019, 157, 219.	1.9	8
44	Hazes and clouds in a singular triple vortex in Saturn's atmosphere from HST/WFC3 multispectral imaging. Icarus, 2019, 333, 22-36.	1.1	7
45	Latitudinal variation in the abundance of methane (CH ₄) above the clouds in Neptune's atmosphere from VLT/MUSE Narrow Field Mode Observations. Icarus, 2019, 331, 69-82.	1.1	26
46	Constraints on Uranus's haze structure, formation and transport. Icarus, 2019, 333, 1-11.	1.1	16
47	Ethane in Titan's Stratosphere from Cassini CIRS Far- and Mid-infrared Spectra. Astronomical Journal, 2019, 157, 160.	1.9	13
48	Jupiter's auroral-related stratospheric heating and chemistry III: Abundances of C ₂ H ₄ , CH ₃ C ₂ H, C ₄ H ₂ and C ₆ H ₆ from Voyager-IRIS and Cassini-CIRS. Icarus, 2019, 328, 176-193.	1.1	18
49	Wave Activity in Jupiter's North Equatorial Belt From Near-Infrared Reflectivity Observations. Geophysical Research Letters, 2019, 46, 1232-1241.	1.5	2
50	Seasonal Evolution of Titan's Stratosphere During the Cassini Mission. Geophysical Research Letters, 2019, 46, 3079-3089.	1.5	37
51	A brightening of Jupiter's auroral 7.8- μ m CH ₄ emission during a solar-wind compression. Nature Astronomy, 2019, 3, 607-613.	4.2	17
52	Spatial and seasonal variations in C ₃ H hydrocarbon abundance in Titan's stratosphere from Cassini CIRS observations. Icarus, 2019, 317, 454-469.	1.1	17
53	Neptune's carbon monoxide profile and phosphine upper limits from Herschel/SPIRE: Implications for interior structure and formation. Icarus, 2019, 319, 86-98.	1.1	18
54	Analysis of gaseous ammonia (NH ₃) absorption in the visible spectrum of Jupiter - Update. Icarus, 2019, 321, 572-582.	1.1	11

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55	Probable detection of hydrogen sulphide (H ₂ S) in Neptune's atmosphere. <i>Icarus</i> , 2019, 321, 550-563.	1.1	46
56	Abundance measurements of Titan's stratospheric HCN, HC ₃ N, C ₃ H ₄ , and CH ₃ CN from ALMA observations. <i>Icarus</i> , 2019, 319, 417-432.	1.1	36
57	Detection of hydrogen sulfide above the clouds in Uranus's atmosphere. <i>Nature Astronomy</i> , 2018, 2, 420-427.	4.2	71
58	Retrieval of H ₂ O abundance in Titan's stratosphere: A (re)analysis of CIRS/Cassini and PACS/Herschel observations. <i>Icarus</i> , 2018, 311, 288-305.	1.1	5
59	Venus Upper Clouds and the UV Absorber From MESSENGER/MASCS Observations. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 145-162.	1.5	41
60	Assessing the long-term variability of acetylene and ethane in the stratosphere of Jupiter. <i>Icarus</i> , 2018, 305, 301-313.	1.1	20
61	Haze and cloud structure of Saturn's North Pole and Hexagon Wave from Cassini/ISS imaging. <i>Icarus</i> , 2018, 305, 284-300.	1.1	19
62	Jupiter's auroral-related stratospheric heating and chemistry II: Analysis of IRTF-TEXES spectra measured in December 2014. <i>Icarus</i> , 2018, 300, 305-326.	1.1	21
63	Analysis of gaseous ammonia (NH ₃) absorption in the visible spectrum of Jupiter. <i>Icarus</i> , 2018, 302, 426-436.	1.1	11
64	Spatial variations in Titan's atmospheric temperature: ALMA and Cassini comparisons from 2012 to 2015. <i>Icarus</i> , 2018, 307, 380-390.	1.1	16
65	The Transiting Exoplanet Community Early Release Science Program for <i>JWST</i> . <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 114402.	1.0	100
66	Seasonal evolution of C ₂ N ₂ , C ₃ H ₄ , and C ₄ H ₂ abundances in Titan's lower stratosphere. <i>Astronomy and Astrophysics</i> , 2018, 609, A64.	2.1	32
67	Uranus's Northern Polar Cap in 2014. <i>Geophysical Research Letters</i> , 2018, 45, 5329-5335.	1.5	10
68	A hexagon in Saturn's northern stratosphere surrounding the emerging summertime polar vortex. <i>Nature Communications</i> , 2018, 9, 3564.	5.8	36
69	Detectability of Biosignatures in Anoxic Atmospheres with the James Webb Space Telescope: A TRAPPIST-1e Case Study. <i>Astronomical Journal</i> , 2018, 156, 114.	1.9	98
70	The Origin of Titan's External Oxygen: Further Constraints from ALMA Upper Limits on CS and CH ₂ NH. <i>Astronomical Journal</i> , 2018, 155, 251.	1.9	8
71	Latitudinal variability in Jupiter's tropospheric disequilibrium species: GeH ₄ , AsH ₃ and PH ₃ . <i>Icarus</i> , 2017, 289, 254-269.	1.1	25
72	Moist convection and the 2010-2011 revival of Jupiter's South Equatorial Belt. <i>Icarus</i> , 2017, 286, 94-117.	1.1	40

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73	Jupiter's North Equatorial Belt expansion and thermal wave activity ahead of Juno's arrival. <i>Geophysical Research Letters</i> , 2017, 44, 7140-7148.	1.5	21
74	Independent evolution of stratospheric temperatures in Jupiter's northern and southern auroral regions from 2014 to 2016. <i>Geophysical Research Letters</i> , 2017, 44, 5345-5354.	1.5	12
75	Jupiter's auroral-related stratospheric heating and chemistry I: Analysis of Voyager-IRIS and Cassini-CIRS spectra. <i>Icarus</i> , 2017, 292, 182-207.	1.1	22
76	HST/WFC3 observations of Uranus' 2014 storm clouds and comparison with VLT/SINFONI and IRTF/Spex observations. <i>Icarus</i> , 2017, 288, 99-119.	1.1	21
77	D/H Ratios on Saturn and Jupiter from Cassini CIRS. <i>Astronomical Journal</i> , 2017, 154, 178.	1.9	15
78	Disruption of Saturn's quasi-periodic equatorial oscillation by the great northern storm. <i>Nature Astronomy</i> , 2017, 1, 765-770.	4.2	37
79	ALMA detection and astrobiological potential of vinyl cyanide on Titan. <i>Science Advances</i> , 2017, 3, e1700022.	4.7	58
80	The formation and evolution of Titan's winter polar vortex. <i>Nature Communications</i> , 2017, 8, 1586.	5.8	41
81	Mapping Vinyl Cyanide and Other Nitriles in Titan's Atmosphere Using ALMA. <i>Astronomical Journal</i> , 2017, 154, 206.	1.9	21
82	A CONSISTENT RETRIEVAL ANALYSIS OF 10 HOT JUPITERS OBSERVED IN TRANSMISSION. <i>Astrophysical Journal</i> , 2017, 834, 50.	1.6	180
83	Ammonia in Jupiter's Troposphere From High-Resolution 5 μ m Spectroscopy. <i>Geophysical Research Letters</i> , 2017, 44, 10,838.	1.5	12
84	ALMA observations of Titan's atmospheric chemistry and seasonal variation. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 95-102.	0.0	1
85	Detection of H ₃ ⁺ auroral emission in Jupiter's 5-micron window. <i>Astronomy and Astrophysics</i> , 2016, 589, A67.	2.1	9
86	ALMA OBSERVATIONS OF HCN AND ITS ISOTOPOLOGUES ON TITAN. <i>Astronomical Journal</i> , 2016, 152, 42.	1.9	54
87	Global energy budgets and Trenberth diagrams for the climates of terrestrial and gas giant planets. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 703-720.	1.0	28
88	ISOTOPIC RATIOS OF CARBON AND OXYGEN IN TITAN'S CO USING ALMA. <i>Astrophysical Journal Letters</i> , 2016, 821, L8.	3.0	46
89	Probing Saturn's tropospheric cloud with Cassini/VIMS. <i>Icarus</i> , 2016, 271, 400-417.	1.1	11
90	Time variability of Neptune's horizontal and vertical cloud structure revealed by VLT/SINFONI and Gemini/NIFS from 2009 to 2013. <i>Icarus</i> , 2016, 271, 418-437.	1.1	25

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91	Mid-infrared mapping of Jupiter's temperatures, aerosol opacity and chemical distributions with IRTF/TEXES. <i>Icarus</i> , 2016, 278, 128-161.	1.1	89
92	Seasonal variability of Saturn's tropospheric temperatures, winds and para-H ₂ from Cassini far-IR spectroscopy. <i>Icarus</i> , 2016, 264, 137-159.	1.1	32
93	Spectral analysis of Uranus' 2014 bright storm with VLT/SINFONI. <i>Icarus</i> , 2016, 264, 72-89.	1.1	18
94	Evolution of stratospheric chemistry in the Saturn storm beacon region. <i>Icarus</i> , 2015, 261, 149-168.	1.1	23
95	Aerosol influence on energy balance of the middle atmosphere of Jupiter. <i>Nature Communications</i> , 2015, 6, 10231.	5.8	27
96	The Long wave (11–16 μ m) spectrograph for the EChO M3 Mission Candidate study. <i>Experimental Astronomy</i> , 2015, 40, 801-811.	1.6	2
97	Transit spectroscopy with James Webb Space Telescope: systematics, starspots and stitching. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 448, 2546-2561.	1.6	99
98	ETHYL CYANIDE ON TITAN: SPECTROSCOPIC DETECTION AND MAPPING USING ALMA. <i>Astrophysical Journal Letters</i> , 2015, 800, L14.	3.0	73
99	Reanalysis of Uranus' cloud scattering properties from IRTF/SpeX observations using a self-consistent scattering cloud retrieval scheme. <i>Icarus</i> , 2015, 250, 462-476.	1.1	18
100	On the detectability of trace chemical species in the martian atmosphere using gas correlation filter radiometry. <i>Icarus</i> , 2015, 260, 103-127.	1.1	2
101	Cloud structure and composition of Jupiter's troposphere from 5- μ m Cassini VIMS spectroscopy. <i>Icarus</i> , 2015, 257, 457-470.	1.1	32
102	Seasonal evolution of Saturn's polar temperatures and composition. <i>Icarus</i> , 2015, 250, 131-153.	1.1	38
103	Exoplanet atmospheres with EChO: spectral retrievals using EChOSim. <i>Experimental Astronomy</i> , 2015, 40, 545-561.	1.6	4
104	The transit spectra of Earth and Jupiter. <i>Icarus</i> , 2014, 242, 172-187.	1.1	19
105	CLOUDS ON THE HOT JUPITER HD189733b: CONSTRAINTS FROM THE REFLECTION SPECTRUM. <i>Astrophysical Journal</i> , 2014, 786, 154.	1.6	74
106	Scientific rationale for Saturn's in situ exploration. <i>Planetary and Space Science</i> , 2014, 104, 29-47.	0.9	49
107	CONSTRAINING THE ATMOSPHERIC COMPOSITION OF THE DAY-NIGHT TERMINATORS OF HD 189733b: ATMOSPHERIC RETRIEVAL WITH AEROSOLS. <i>Astrophysical Journal</i> , 2014, 789, 14.	1.6	32
108	Line-by-line analysis of Neptune's near-IR spectrum observed with Gemini/NIFS and VLT/CRILES. <i>Icarus</i> , 2014, 227, 37-48.	1.1	22

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109	Differentiability and retrievability of CO ₂ and H ₂ O clouds on Mars from MRO/MCS measurements: A radiative-transfer study. <i>Planetary and Space Science</i> , 2014, 97, 65-84.	0.9	5
110	From Voyager-IRIS to Cassini-CIRS: Interannual variability in Saturn's stratosphere?. <i>Icarus</i> , 2014, 233, 281-292.	1.1	20
111	Neptune at summer solstice: Zonal mean temperatures from ground-based observations, 2003-2007. <i>Icarus</i> , 2014, 231, 146-167.	1.1	48
112	ALMA MEASUREMENTS OF THE HNC AND HC ₃ N DISTRIBUTIONS IN TITAN'S ATMOSPHERE. <i>Astrophysical Journal Letters</i> , 2014, 795, L30.	3.0	53
113	Constraints on Jupiter's stratospheric HCl abundance and chlorine cycle from Herschel/HIFI. <i>Planetary and Space Science</i> , 2014, 103, 250-261.	0.9	5
114	HCN ice in Titan's high-altitude southern polar cloud. <i>Nature</i> , 2014, 514, 65-67.	13.7	59
115	Analysis of Rosetta/VIRTIS spectra of earth using observations from ENVISAT/AATSR, TERRA/MODIS and ENVISAT/SCIAMACHY, and radiative transfer simulations. <i>Planetary and Space Science</i> , 2014, 90, 37-59.	0.9	6
116	The origin of nitrogen on Jupiter and Saturn from the $\frac{dN}{dt} = -\lambda N + \sum_i \lambda_i N_i$	1.1	44
117	Exploring the diversity of Jupiter-class planets. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130064.	1.6	3
118	Radiative forcing of the stratosphere of Jupiter, Part I: Atmospheric cooling rates from Voyager to Cassini. <i>Planetary and Space Science</i> , 2013, 88, 3-25.	0.9	27
119	Upper limits for PH ₃ and H ₂ S in Titan's atmosphere from Cassini CIRS. <i>Icarus</i> , 2013, 224, 253-256.	1.1	12
120	Uranus cloud particle properties and latitudinal methane variation from IRTF SpeX observations. <i>Icarus</i> , 2013, 223, 684-698.	1.1	20
121	Climatology and first-order composition estimates of mesospheric clouds from Mars Climate Sounder limb spectra. <i>Icarus</i> , 2013, 222, 342-356.	1.1	39
122	Seasonal variations of temperature, acetylene and ethane in Saturn's atmosphere from 2005 to 2010, as observed by Cassini-CIRS. <i>Icarus</i> , 2013, 225, 257-271.	1.1	36
123	Constraints on Titan's middle atmosphere ammonia abundance from Herschel/SPIRE sub-millimetre spectra. <i>Planetary and Space Science</i> , 2013, 75, 136-147.	0.9	50
124	A Gemini ground-based transmission spectrum of WASP-29b: a featureless spectrum from 515 to 720 nm. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 428, 3680-3692.	1.6	119
125	On the potential of the EChO mission to characterize gas giant atmospheres. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 430, 1188-1207.	1.6	39
126	The optical transmission spectrum of the hot Jupiter HAT-P-32b: clouds explain the absence of broad spectral features?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 436, 2974-2988.	1.6	109

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127	AN EXTERNAL ORIGIN FOR CARBON MONOXIDE ON URANUS FROM <i>HERSCHEL</i> /SPIRE?. Astrophysical Journal Letters, 2013, 775, L49.	3.0	18
128	Constraining the atmosphere of GJ 1214b using an optimal estimation technique. Monthly Notices of the Royal Astronomical Society, 2013, 434, 2616-2628.	1.6	61
129	DETECTION OF PROPENE IN TITAN'S STRATOSPHERE. Astrophysical Journal Letters, 2013, 776, L14.	3.0	84
130	ATMOSPHERIC RETRIEVAL ANALYSIS OF THE DIRECTLY IMAGED EXOPLANET HR 8799b. Astrophysical Journal, 2013, 778, 97.	1.6	95
131	From spectra to atmospheres: solving the underconstrained retrieval problem for exoplanets. Proceedings of the International Astronomical Union, 2013, 8, 275-276.	0.0	0
132	ISOTOPIC RATIOS IN TITAN'S METHANE: MEASUREMENTS AND MODELING. Astrophysical Journal, 2012, 749, 159.	1.6	91
133	ELUSIVE ETHYLENE DETECTED IN SATURN'S NORTHERN STORM REGION. Astrophysical Journal, 2012, 760, 24.	1.6	31
134	The origin and evolution of Saturn's 2011-2012 stratospheric vortex. Icarus, 2012, 221, 560-586.	1.1	63
135	Latitudinal variation of upper tropospheric NH ₃ on Saturn derived from Cassini/CIRS far-infrared measurements. Planetary and Space Science, 2012, 73, 347-363.	0.9	16
136	Active upper-atmosphere chemistry and dynamics from polar circulation reversal on Titan. Nature, 2012, 491, 732-735.	13.7	80
137	The application of new methane line absorption data to Gemini-N/NIFS and KPNO/FTS observations of Uranus's near-infrared spectrum. Icarus, 2012, 220, 369-382.	1.1	43
138	Water vapor in Titan's stratosphere from Cassini CIRS far-infrared spectra. Icarus, 2012, 220, 855-862.	1.1	39
139	Optimal estimation retrievals of the atmospheric structure and composition of HD 189733b from secondary eclipse spectroscopy. Monthly Notices of the Royal Astronomical Society, 2012, 420, 170-182.	1.6	144
140	Models of the global cloud structure on Venus derived from Venus Express observations. Icarus, 2012, 217, 542-560.	1.1	95
141	Further seasonal changes in Uranus's cloud structure observed by Gemini-North and UKIRT. Icarus, 2012, 218, 47-55.	1.1	19
142	Investigation of new band parameters with temperature dependence for self-broadened methane gas in the range 9000 to 14,000 cm ⁻¹ (0.71 to 1.1 μm). Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 763-782.	1.1	4
143	Spatial and temporal variations in Titan's surface temperatures from Cassini CIRS observations. Planetary and Space Science, 2012, 60, 62-71.	0.9	63
144	Observations of upper tropospheric acetylene on Saturn: No apparent correlation with 2000km-sized thunderstorms. Planetary and Space Science, 2012, 65, 21-37.	0.9	8

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145	Saturn's tropospheric composition and clouds from Cassini/VIMS 4.6–5.1 μ m nightside spectroscopy. <i>Icarus</i> , 2011, 214, 510-533.	1.1	84
146	Multispectral imaging observations of Neptune's cloud structure with Gemini-North. <i>Icarus</i> , 2011, 216, 141-158.	1.1	28
147	Scattering particles in nightside limb observations of Venus's upper atmosphere by Venus Express VIRTIS. <i>Icarus</i> , 2011, 211, 51-57.	1.1	36
148	Uranus's cloud structure and seasonal variability from Gemini-North and UKIRT observations. <i>Icarus</i> , 2011, 212, 339-350.	1.1	17
149	Jovian temperature and cloud variability during the 2009–2010 fade of the South Equatorial Belt. <i>Icarus</i> , 2011, 213, 564-580.	1.1	34
150	A single-scattering approximation for infrared radiative transfer in limb geometry in the Martian atmosphere. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 1568-1580.	1.1	84
151	Thermal Structure and Dynamics of Saturn's Northern Springtime Disturbance. <i>Science</i> , 2011, 332, 1413-1417.	6.0	75
152	SEASONAL CHANGES IN TITAN'S POLAR TRACE GAS ABUNDANCE OBSERVED BY CASSINI. <i>Astrophysical Journal Letters</i> , 2010, 724, L84-L89.	3.0	34
153	Seasonal change on Saturn from Cassini/CIRS observations, 2004–2009. <i>Icarus</i> , 2010, 208, 337-352.	1.1	63
154	Far-infrared opacity sources in Titan's troposphere reconsidered. <i>Icarus</i> , 2010, 209, 854-857.	1.1	14
155	Compositional evidence for Titan's stratospheric tilt. <i>Planetary and Space Science</i> , 2010, 58, 792-800.	0.9	15
156	Abundances of Jupiter's trace hydrocarbons from Voyager and Cassini. <i>Planetary and Space Science</i> , 2010, 58, 1667-1680.	0.9	42
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