Leigh Fletcher

List of Publications by Year
in descending order

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Version: 2024-02-01

222	7,781	50276	74163
papers	citations	46 h-index	75 g-index

251	251	251	3727
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In Situ exploration of the giant planets. Experimental Astronomy, 2022, 54, 975-1013.	3.7	5
2	Ice giant system exploration within ESAâ€™s Voyage 2050. Experimental Astronomy, 2022, 54, 1015-1025.	3.7	4
3	Giant Planet Atmospheres: Dynamics and Variability from UV to Near-IR Hubble and Adaptive Optics Imaging. Remote Sensing, 2022, 14, 1518.	4.0	5
4	The Case for a New Frontiersâ€“Class Uranus Orbiter: System Science at an Underexplored and Unique World with a Mid-scale Mission. Planetary Science Journal, 2022, 3, 58.	3.6	12
5	Compositional Mapping of Europa Using MCMC Modeling of Near-IR VLT/SPHERE and Galileo/NIMS Observations. Planetary Science Journal, 2022, 3, 72.	3.6	10
6	Subseasonal Variation in Neptuneâ€™s Mid-infrared Emission. Planetary Science Journal, 2022, 3, 78.	3.6	9
7	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
8	Jupiter's Temperature Structure: A Reassessment of the Voyager Radio Occultation Measurements. Planetary Science Journal, 2022, 3, 159.	3.6	11
9	Fluctuations in Jupiterâ€™s equatorial stratospheric oscillation. Nature Astronomy, 2021, 5, 71-77.	10.1	17
10	Prospects to study the Ice Giants with the ngVLA. , 2021, 53, .		1
11	The science enabled by a dedicated solar system space telescope. , 2021, 53, .		1
12	Ice Giant Atmospheric Science. , 2021, 53, .		2
13	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
14	Latitudinal variation of methane mole fraction above clouds in Neptune's atmosphere from VLT/MUSE-NFM: Limb-darkening reanalysis. Icarus, 2021, 357, 114277.	2.5	9
15	Constraints on the Latitudinal Profile of Jupiter's Deep Jets. Geophysical Research Letters, 2021, 48, e2021GL092912.	4.0	13
16	Meridional Variations of C₂H₂ in Jupiter's Stratosphere From Juno UVS Observations. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006928.	3.6	5
17	Refining Saturnâ€™s deuterium-hydrogen ratio via IRTF/TEXES spectroscopy. Astronomy and Astrophysics, 2021, 653, A66.	5.1	1
18	Longitudinal variations in the stratosphere of Uranus from the Spitzer infrared spectrometer. Icarus, 2021, 365, 114506.	2.5	6

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19	Neptune Odyssey: A Flagship Concept for the Exploration of the Neptuneâ€“Triton System. Planetary Science Journal, 2021, 2, 184.	3.6	11
20	Jupiter's Overturning Circulation: Breaking Waves Take the Place of Solid Boundaries. Geophysical Research Letters, 2021, 48, e2021GL095756.	4.0	11
21	Evidence for Multiple Ferrelâ€Like Cells on Jupiter. Geophysical Research Letters, 2021, 48, e2021GL095651.	4.0	18
22	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
23	The depth of Jupiterâ€™s Great Red Spot constrained by Juno gravity overflights. Science, 2021, 374, 964-968.	12.6	18
24	Microwave observations reveal the deep extent and structure of Jupiterâ€™s atmospheric vortices. Science, 2021, 374, 968-972.	12.6	23
25	SOFIA Observations of Variability in Jupiter's Para-H₂ Distribution and Subsurface Emission Characteristics of the Galilean Satellites. Planetary Science Journal, 2021, 2, 226.	3.6	4
26	Saturn atmospheric dynamics one year after Cassini: Long-lived features and time variations in the drift of the Hexagon. Icarus, 2020, 336, 113429.	2.5	13
27	Colour and tropospheric cloud structure of Jupiter from MUSE/VLT: Retrieving a universal chromophore. Icarus, 2020, 338, 113589.	2.5	21
28	Spitzerâ€™s Solar System studies of asteroids, planets and the zodiacal cloud. Nature Astronomy, 2020, 4, 940-946.	10.1	7
29	Uranus in Northern Midspring: Persistent Atmospheric Temperatures and Circulations Inferred from Thermal Imaging. Astronomical Journal, 2020, 159, 45.	4.7	15
30	Future Missions to the Giant Planets that Can Advance Atmospheric Science Objectives. Space Science Reviews, 2020, 216, 1.	8.1	3
31	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
32	Residual Study: Testing Jupiter Atmosphere Models Against Juno MWR Observations. Earth and Space Science, 2020, 7, e2020EA001229.	2.6	3
33	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
34	Atmospheric chemistry on Uranus and Neptune. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190477.	3.4	24
35	Characterizing Temperature and Aerosol Variability During Jupiter's 2006â€“2007 Equatorial Zone Disturbance. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006413.	3.6	4
36	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

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37	High-resolution UV/Optical/IR Imaging of Jupiter in 2016â€“2019. Astrophysical Journal, Supplement Series, 2020, 247, 58.	7.7	25
38	The Deep Composition of Uranus and Neptune from In Situ Exploration and Thermochemical Modeling. Space Science Reviews, 2020, 216, 1.	8.1	16
39	Constraints on Neptune's haze structure and formation from VLT observations in the H-band. Icarus, 2020, 350, 113808.	2.5	5
40	Jupiter in the Ultraviolet: Acetylene and Ethane Abundances in the Stratosphere of Jupiter from Cassini Observations between 0.15 and 0.19 Î¼m. Astronomical Journal, 2020, 159, 291.	4.7	11
41	Meeting report: There's something in the air. Astronomy and Geophysics, 2020, 61, 3.20-3.25.	0.2	0
42	Ice Giant Circulation Patterns: Implications for Atmospheric Probes. Space Science Reviews, 2020, 216, 21.	8.1	22
43	How Well Do We Understand the Belt/Zone Circulation of Giant Planet Atmospheres?. Space Science Reviews, 2020, 216, 30.	8.1	45
44	Ice Giant Systems: The scientific potential of orbital missions to Uranus and Neptune. Planetary and Space Science, 2020, 191, 105030.	1.7	39
45	A Review of the in Situ Probe Designs from Recent Ice Giant Mission Concept Studies. Space Science Reviews, 2020, 216, 1.	8.1	13
46	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
47	Spatial structure in Neptuneâ€™s 7.90 <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e792" altimg="si54.svg"><mml:mi mathvariant="normal">Î¼</mml:mi></mml:math>m stratospheric CH<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e797" altimg="si55.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:math> emission, as measured by VLT-VISIR. Icarus, 2020, 345, 113748.	2.5	4
48	Revealing giant planet interiors beneath the cloudy veil. Nature Communications, 2020, 11, 1555.	12.8	3
49	Ice giant system exploration in the 2020s: an introduction. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190473.	3.4	13
50	The Effects of Waves on the Meridional Thermal Structure of Jupiterâ€™s Stratosphere. Planetary Science Journal, 2020, 1, 63.	3.6	5
51	Spatial Variations in the Altitude of the CH₄ Homopause at Jupiterâ€™s Mid-to-high Latitudes, as Constrained from IRTF-TEXES Spectra. Planetary Science Journal, 2020, 1, 85.	3.6	9
52	Corrigendum to: Meeting report: There's something in the air. Astronomy and Geophysics, 2020, 61, e1-e1.	0.2	0
53	A computational study of hydrogen dimers in giant-planet infrared spectra. Journal of Physics: Conference Series, 2019, 1289, 012010.	0.4	0
54	Thermal Emission from the Uranian Ring System. Astronomical Journal, 2019, 158, 47.	4.7	2

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55	The H ₃ ⁺ ionosphere of Uranus: decades-long cooling and local-time morphology. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180408.	3.4	15
56	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
57	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
58	Jupiter's auroral-related stratospheric heating and chemistry III: Abundances of C2H4, CH3C2H, C4H2 and C6H6 from Voyager-IRIS and Cassini-CIRS. Icarus, 2019, 328, 176-193.	2.5	18
59	A brightening of Jupiterâ€™s auroral 7.8-Î¼m CH4 emission during a solar-wind compression. Nature Astronomy, 2019, 3, 607-613.	10.1	17
60	Jupiterâ€™s ammonia distribution derived from VLA maps at 3â€“37ÂGHz. Icarus, 2019, 322, 168-191.	2.5	40
61	Herschel map of Saturnâ€™s stratospheric water, delivered by the plumes of Enceladus. Astronomy and Astrophysics, 2019, 630, A87.	5.1	15
62	Jupiterâ€™s Atmospheric Variability from Long-term Ground-based Observations at 5 Î¼m. Astronomical Journal, 2019, 158, 130.	4.7	17
63	Potential Vorticity of Saturn's Polar Regions: Seasonality and Instabilities. Journal of Geophysical Research E: Planets, 2019, 124, 186-201.	3.6	6
64	Probable detection of hydrogen sulphide (H2S) in Neptuneâ€™s atmosphere. Icarus, 2019, 321, 550-563.	2.5	46
65	First ALMA Millimeter-wavelength Maps of Jupiter, with a Multiwavelength Study of Convection. Astronomical Journal, 2019, 158, 139.	4.7	27
66	Detection of hydrogen sulfide above the clouds in Uranusâ€™s atmosphere. Nature Astronomy, 2018, 2, 420-427.	10.1	71
67	Equatorial Oscillation and Planetary Wave Activity in Saturn's Stratosphere Through the Cassini Epoch. Journal of Geophysical Research E: Planets, 2018, 123, 246-261.	3.6	19
68	Seasonal stratospheric photochemistry on Uranus and Neptune. Icarus, 2018, 307, 124-145.	2.5	40
69	Assessing the long-term variability of acetylene and ethane in the stratosphere of Jupiter. Icarus, 2018, 305, 301-313.	2.5	20
70	Jupiterâ€™s auroral-related stratospheric heating and chemistry II: Analysis of IRTF-TEXES spectra measured in December 2014. Icarus, 2018, 300, 305-326.	2.5	21
71	Scientific rationale for Uranus and Neptune in situ explorations. Planetary and Space Science, 2018, 155, 12-40.	1.7	69
72	Proâ€“am collaborations improve views of Jupiter. Astronomy and Geophysics, 2018, 59, 4.24-4.31.	0.2	2

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73	Characterization of Mesoscale Waves in the Jupiter NEB by Jupiter InfraRed Auroral Mapper on board Juno. Astronomical Journal, 2018, 156, 246.	4.7	5
74	Saturnâ€™s Seasonally Changing Atmosphere. , 2018, , 251-294.		6
75	Saturnâ€™s Polar Atmosphere. , 2018, , 337-376.		11
76	The Great Saturn Storm of 2010â€“2011. , 2018, , 377-416.		9
77	A chemical survey of exoplanets with ARIEL. Experimental Astronomy, 2018, 46, 135-209.	3.7	249
78	Infrared Characterization of Jupiter's Equatorial Disturbance Cycle. Geophysical Research Letters, 2018, 45, 10,987.	4.0	19
79	Hydrogen Dimers in Giant-planet Infrared Spectra. Astrophysical Journal, Supplement Series, 2018, 235, 24.	7.7	77
80	A hexagon in Saturnâ€™s northern stratosphere surrounding the emerging summertime polar vortex. Nature Communications, 2018, 9, 3564.	12.8	36
81	Less absorbed solar energy and more internal heat for Jupiter. Nature Communications, 2018, 9, 3709.	12.8	50
82	A New, Long-lived, Jupiter Mesoscale Wave Observed at Visible Wavelengths. Astronomical Journal, 2018, 156, 79.	4.7	14
83	Thermal Emission From Saturn's Polar Cyclones. Geophysical Research Letters, 2018, 45, 5312-5319.	4.0	3
84	Jupiterâ€™s Mesoscale Waves Observed at 5 Î¼m by Ground-based Observations and Juno JIRAM. Astronomical Journal, 2018, 156, 67.	4.7	17
85	The quest for H$_3^+$ at Neptune: deep burn observations with NASA IRTF iSHELL. Monthly Notices of the Royal Astronomical Society, 2018, 474, 3714-3719.	4.4	14
86	Vertical wind shear in Neptuneâ€™s upper atmosphere explained with a modified thermal wind equation. Icarus, 2018, 311, 317-339.	2.5	27
87	Identification of Jupiterâ€™s magnetic equator through H3+ ionospheric emission. Nature Astronomy, 2018, 2, 773-777.	10.1	17
88	Saturn's New Ribbons: Cassini Observations of Planetary Waves in Saturn's 42N Atmospheric Jet. Geophysical Research Letters, 2018, 45, 7399-7408.	4.0	7
89	Mapping of Jupiterâ€™s tropospheric NH 3 abundance using ground-based IRTF/TEXES observations at 5â€Âµm. Icarus, 2018, 314, 106-120.	2.5	8
90	Leigh Fletcherâ€”Vice-Chair, B5 Sub-Commission on Outer Planets and Satellites. Space Research Today, 2018, 201, 5-6.	0.1	0

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91	Latitudinal variability in Jupiterâ€™s tropospheric disequilibrium species: GeH4, AsH3 and PH3. Icarus, 2017, 289, 254-269.	2.5	25
92	Moist convection and the 2010â€“2011 revival of Jupiterâ€™s South Equatorial Belt. Icarus, 2017, 286, 94-117.	2.5	40
93	Cycles of activity in the Jovian atmosphere. Geophysical Research Letters, 2017, 44, 4725-4729.	4.0	21
94	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
95	Galileo probe interpretation indicating a neutrally stable layer in the Jovian troposphere. Geophysical Research Letters, 2017, 44, 4008-4017.	4.0	3
96	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
97	Jupiterâ€™s auroral-related stratospheric heating and chemistry I: Analysis of Voyager-IRIS and Cassini-CIRS spectra. Icarus, 2017, 292, 182-207.	2.5	22
98	D/H Ratios on Saturn and Jupiter from Cassini CIRS. Astronomical Journal, 2017, 154, 178.	4.7	15
99	Water and Volatiles in the Outer Solar System. Space Science Reviews, 2017, 212, 835-875.	8.1	44
100	Disruption of Saturnâ€™s quasi-periodic equatorial oscillation by the great northern storm. Nature Astronomy, 2017, 1, 765-770.	10.1	37
101	Saturnâ€™s big storm. Nature Astronomy, 2017, 1, 583-583.	10.1	0
102	Jupiterâ€™s para-H 2 distribution from SOFIA/FORCAST and Voyager/IRIS 17â€“37ÂÂµm spectroscopy. Icarus, 2017, 286, 223-240.	2.5	15
103	Saturn's seasonal atmosphere. Astronomy and Geophysics, 2017, 58, 4.26-4.30.	0.2	2
104	Ammonia in Jupiter's Troposphere From Highâ€Resolution 5ÂÎ¼m Spectroscopy. Geophysical Research Letters, 2017, 44, 10,838.	4.0	12
105	New Observations and Modeling of Jupiter's Quasiâ€Quadrennial Oscillation. Journal of Geophysical Research E: Planets, 2017, 122, 2719-2744.	3.6	30
106	Water and Volatiles in the Outer Solar System. Space Sciences Series of ISSI, 2017, , 191-231.	0.0	0
107	Detection of H₃⁺auroral emission in Jupiterâ€™s 5-micron window. Astronomy and Astrophysics, 2016, 589, A67.	5.1	9
108	Giant Planet Observations with the James Webb Space Telescope. Publications of the Astronomical Society of the Pacific, 2016, 128, 018005.	3.1	29

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109	Stratospheric aftermath of the 2010 Storm on Saturn as observed by the TEXES instrument. I. Temperature structure. Icarus, 2016, 277, 196-214.	2.5	12
110	A dispersive wave pattern on Jupiterâ€™s fastest retrograde jet at 20Â°S. Icarus, 2016, 277, 354-369.	2.5	8
111	Probing Saturnâ€™s tropospheric cloud with Cassini/VIMS. Icarus, 2016, 271, 400-417.	2.5	11
112	Time variability of Neptuneâ€™s horizontal and vertical cloud structure revealed by VLT/SINFONI and Gemini/NIFS from 2009 to 2013. Icarus, 2016, 271, 418-437.	2.5	25
113	The Hera Saturn entry probe mission. Planetary and Space Science, 2016, 130, 80-103.	1.7	26
114	Telling twins apart: exo-Earths and Venuses with transit spectroscopy. Monthly Notices of the Royal Astronomical Society, 2016, 458, 2657-2666.	4.4	67
115	Mid-infrared mapping of Jupiterâ€™s temperatures, aerosol opacity and chemical distributions with IRTF/TEXES. Icarus, 2016, 278, 128-161.	2.5	89
116	Seasonal variability of Saturnâ€™s tropospheric temperatures, winds and para-H2 from Cassini far-IR spectroscopy. Icarus, 2016, 264, 137-159.	2.5	32
117	Spectral analysis of Uranusâ€™ 2014 bright storm with VLT/SINFONI. Icarus, 2016, 264, 72-89.	2.5	18
118	Evolution of stratospheric chemistry in the Saturn storm beacon region. Icarus, 2015, 261, 149-168.	2.5	23
119	MEANDERING SHALLOW ATMOSPHERIC JET AS A MODEL OF SATURNÊ¼S NORTH-POLAR HEXAGON. Astrophysical Journal Letters, 2015, 806, L18.	8.3	24
120	Stirring up Saturn's poles. Nature Geoscience, 2015, 8, 503-504.	12.9	0
121	The Long wave (11â€“16ÂÎ¼m) spectrograph for the EChO M3 Mission Candidate study. Experimental Astronomy, 2015, 40, 801-811.	3.7	2
122	Transit spectroscopy with James Webb Space Telescope: systematics, starspots and stitching. Monthly Notices of the Royal Astronomical Society, 2015, 448, 2546-2561.	4.4	99
123	The EChO science case. Experimental Astronomy, 2015, 40, 329-391.	3.7	31
124	Photochemical response to the variation of temperature in the 2011â^’2012 stratospheric vortex of Saturn. Astronomy and Astrophysics, 2015, 580, A55.	5.1	9
125	Thermal imaging of Uranus: Upper-tropospheric temperatures one season after Voyager. Icarus, 2015, 260, 94-102.	2.5	22
126	Reanalysis of Uranusâ€™ cloud scattering properties from IRTF/SpeX observations using a self-consistent scattering cloud retrieval scheme. Icarus, 2015, 250, 462-476.	2.5	18

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127	Cloud structure and composition of Jupiterâ€™s troposphere from 5-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si8.gif" overflow="scroll"><mml:mrow><mml:mi mathvariant="normal">Î¼</mml:mi></mml:mrow></mml:math>m Cassini VIMS spectroscopy. Icarus, 2015, 257, 457-470.	2.5	32
128	Ideas for Citizen Science in Astronomy. Annual Review of Astronomy and Astrophysics, 2015, 53, 247-278.	24.3	39
129	Seasonal evolution of Saturnâ€™s polar temperatures and composition. Icarus, 2015, 250, 131-153.	2.5	38
130	Exoplanet atmospheres with EChO: spectral retrievals using EChOSim. Experimental Astronomy, 2015, 40, 545-561.	3.7	4
131	The transit spectra of Earth and Jupiter. Icarus, 2014, 242, 172-187.	2.5	19
132	Instrumental methods for professional and amateur collaborations in planetary astronomy. Experimental Astronomy, 2014, 38, 91-191.	3.7	47
133	CLOUDS ON THE HOT JUPITER HD189733b: CONSTRAINTS FROM THE REFLECTION SPECTRUM. Astrophysical Journal, 2014, 786, 154.	4.5	74
134	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
135	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
136	NEW INSIGHTS ON SATURN'S FORMATION FROM ITS NITROGEN ISOTOPIC COMPOSITION. Astrophysical Journal Letters, 2014, 796, L28.	8.3	22
137	Scientific rationale for Saturn×³s in situ exploration. Planetary and Space Science, 2014, 104, 29-47.	1.7	49
138	The science case for an orbital mission to Uranus: Exploring the origins and evolution of ice giant planets. Planetary and Space Science, 2014, 104, 122-140.	1.7	56
139	CHANGES TO SATURN'S ZONAL-MEAN TROPOSPHERIC THERMAL STRUCTURE AFTER THE 2010-2011 NORTHERN HEMISPHERE STORM. Astrophysical Journal, 2014, 786, 92.	4.5	20
140	CONSTRAINING THE ATMOSPHERIC COMPOSITION OF THE DAY-NIGHT TERMINATORS OF HD 189733b: ATMOSPHERIC RETRIEVAL WITH AEROSOLS. Astrophysical Journal, 2014, 789, 14.	4.5	32
141	Line-by-line analysis of Neptuneâ€™s near-IR spectrum observed with Gemini/NIFS and VLT/CRIRES. Icarus, 2014, 227, 37-48.	2.5	22
142	3D Modeling of interactions between Jupiterâ€™s ammonia clouds and large anticyclones. Icarus, 2014, 232, 141-156.	2.5	18
143	From Voyager-IRIS to Cassini-CIRS: Interannual variability in Saturnâ€™s stratosphere?. Icarus, 2014, 233, 281-292.	2.5	20
144	Neptune at summer solstice: Zonal mean temperatures from ground-based observations, 2003â€“2007. Icarus, 2014, 231, 146-167.	2.5	48

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145	Constraints on Jupiter×³s stratospheric HCl abundance and chlorine cycle from Herschel/HIFI. Planetary and Space Science, 2014, 103, 250-261.	1.7	5
146	Line shape parameters of PH3 transitions in the Pentad near 4â€“5Î¼m: Self-broadened widths, shifts, line mixing and speed dependence. Journal of Molecular Spectroscopy, 2014, 302, 17-33.	1.2	10
147	Constraining the depth of Saturnâ€™s zonal winds by measuring thermal and gravitational signals. Icarus, 2014, 239, 260-272.	2.5	16
148	Line positions and intensities of the phosphine (PH3) Pentad near 4.5Î¼m. Journal of Molecular Spectroscopy, 2014, 298, 11-23.	1.2	20
149	The origin of nitrogen on Jupiter and Saturn from the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si70.gif" overflow="scroll"><mml:mrow><mml:msup><mml:mrow /><mml:mrow><mml:mn>15</mml:mn></mml:mrow></mml:msup></mml:mrow></mml:math>N/<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si71.gif" overflow="scroll"><mml:mrow><mml:msup><mml:mrow /><mml:mrow><mml:mn>14</mml:mn></mml:mrow></mml:	2.5	44
150	Neptuneâ€™s global circulation deduced from multi-wavelength observations. Icarus, 2014, 237, 211-238.	2.5	64
151	Neptune and Triton: Essential pieces of the Solar System puzzle. Planetary and Space Science, 2014, 104, 108-121.	1.7	34
152	The first submillimeter observation of CO in the stratosphere of Uranus. Astronomy and Astrophysics, 2014, 562, A33.	5.1	52
153	Exploring the diversity of Jupiter-class planets. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130064.	3.4	3
154	The temporal evolution of the July 2009 Jupiter impact cloud. Planetary and Space Science, 2013, 77, 25-39.	1.7	3
155	JUpiter ICy moons Explorer (JUICE): An ESA mission to orbit Ganymede and to characterise the Jupiter system. Planetary and Space Science, 2013, 78, 1-21.	1.7	455
156	Uranusâ€™ cloud particle properties and latitudinal methane variation from IRTF SpeX observations. Icarus, 2013, 223, 684-698.	2.5	20
157	Seasonal variations of temperature, acetylene and ethane in Saturnâ€™s atmosphere from 2005 to 2010, as observed by Cassini-CIRS. Icarus, 2013, 225, 257-271.	2.5	36
158	A Gemini ground-based transmission spectrum of WASP-29b: a featureless spectrum from 515 to 720Ânm. Monthly Notices of the Royal Astronomical Society, 2013, 428, 3680-3692.	4.4	119
159	On the potential of the EChO mission to characterize gas giant atmospheres. Monthly Notices of the Royal Astronomical Society, 2013, 430, 1188-1207.	4.4	39
160	The optical transmission spectrum of the hot Jupiter HAT-P-32b: clouds explain the absence of broad spectral features?. Monthly Notices of the Royal Astronomical Society, 2013, 436, 2974-2988.	4.4	109
161	Constraining the atmosphere of GJ 1214b using an optimal estimation technique. Monthly Notices of the Royal Astronomical Society, 2013, 434, 2616-2628.	4.4	61
162	Impact flux on Jupiter: From superbolides to large-scale collisions. Astronomy and Astrophysics, 2013, 560, A55.	5.1	29

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163	From spectra to atmospheres: solving the underconstrained retrieval problem for exoplanets. Proceedings of the International Astronomical Union, 2013, 8, 275-276.	0.0	0
164	Colors of Jupiter's large anticyclones and the interaction of a Tropical Red Oval with the Great Red Spot in 2008. Journal of Geophysical Research E: Planets, 2013, 118, 2537-2557.	3.6	15
165	ELUSIVE ETHYLENE DETECTED IN SATURN'S NORTHERN STORM REGION. Astrophysical Journal, 2012, 760, 24.	4.5	31
166	The origin and evolution of Saturnâ€™s 2011â€“2012 stratospheric vortex. Icarus, 2012, 221, 560-586.	2.5	63
167	Latitudinal variation of upper tropospheric NH3 on Saturn derived from Cassini/CIRS far-infrared measurements. Planetary and Space Science, 2012, 73, 347-363.	1.7	16
168	EChO. Experimental Astronomy, 2012, 34, 311-353.	3.7	98
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