

# Ricardo Hueso

## List of Publications by Year in descending order

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147  
papers

4,798  
citations

87888

38  
h-index

123424

61  
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183  
all docs

183  
docs citations

183  
times ranked

2915  
citing authors

#	ARTICLE	IF	CITATIONS
1	In Situ exploration of the giant planets. <i>Experimental Astronomy</i> , 2022, 54, 975-1013.	3.7	5
2	Ice giant system exploration within ESA's Voyage 2050. <i>Experimental Astronomy</i> , 2022, 54, 1015-1025.	3.7	4
3	Constraints on the structure and seasonal variations of Triton's atmosphere from the 5 October 2017 stellar occultation and previous observations. <i>Astronomy and Astrophysics</i> , 2022, 659, A136.	5.1	8
4	Convective storms in closed cyclones in Jupiter's South Temperate Belt: (I) observations. <i>Icarus</i> , 2022, 380, 114994.	2.5	5
5	The dynamic atmospheric and aeolian environment of Jezero crater, Mars. <i>Science Advances</i> , 2022, 8, .	10.3	47
6	Evolution of a dark vortex on Neptune with transient secondary features. <i>Icarus</i> , 2022, 387, 115123.	2.5	3
7	Convective storms in closed cyclones in Jupiter: (II) numerical modeling. <i>Icarus</i> , 2022, 386, 115169.	2.5	2
8	Science Goals and Mission Objectives for the Future Exploration of Ice Giants Systems: A Horizon 2061 Perspective. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	11
9	A Long-Term Study of Mars Mesospheric Clouds Seen at Twilight Based on Mars Express VMC Images. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092188.	4.0	5
10	An Extremely Elongated Cloud Over Arsia Mons Volcano on Mars: I. Life Cycle. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006517.	3.6	9
11	Midsummer Atmospheric Changes in Saturn's Northern Hemisphere from the Hubble OPAL Program. <i>Planetary Science Journal</i> , 2021, 2, 47.	3.6	4
12	Jupiter's Great Red Spot: Strong Interactions With Incoming Anticyclones in 2019. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006686.	3.6	12
13	The Mars Environmental Dynamics Analyzer, MEDA. A Suite of Environmental Sensors for the Mars 2020 Mission. <i>Space Science Reviews</i> , 2021, 217, 48.	8.1	57
14	Interaction of Saturn's Hexagon With Convective Storms. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092461.	4.0	1
15	Jupiter's third largest and longest-lived oval: Color changes and dynamics. <i>Icarus</i> , 2021, 361, 114394.	2.5	4
16	The Surface Energy Budget at Gale Crater During the First 2500 Sols of the Mars Science Laboratory Mission. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006804.	3.6	16
17	Observations and numerical modelling of a convective disturbance in a large-scale cyclone in Jupiter's South Temperate Belt. <i>Icarus</i> , 2020, 336, 113475.	2.5	15
18	Saturn atmospheric dynamics one year after Cassini: Long-lived features and time variations in the drift of the Hexagon. <i>Icarus</i> , 2020, 336, 113429.	2.5	13

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19	Characterization of a local dust storm on Mars with REMS/MSL measurements and MARCI/MRO images. <i>Icarus</i> , 2020, 338, 113521.	2.5	9
20	A complex storm system in Saturn's north polar atmosphere in 2018. <i>Nature Astronomy</i> , 2020, 4, 180-187.	10.1	13
21	Mars 2020 Mission Overview. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	239
22	Convective storms and atmospheric vertical structure in Uranus and Neptune. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190476.	3.4	11
23	Multilayer hazes over Saturn's hexagon from Cassini ISS limb images. <i>Nature Communications</i> , 2020, 11, 2281.	12.8	6
24	A Long-Lived Sharp Disruption on the Lower Clouds of Venus. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087221.	4.0	17
25	Strong increase in dust devil activity at Gale crater on the third year of the MSL mission and suppression during the 2018 Global Dust Storm. <i>Icarus</i> , 2020, 347, 113814.	2.5	22
26	Ice Giant Systems: The scientific potential of orbital missions to Uranus and Neptune. <i>Planetary and Space Science</i> , 2020, 191, 105030.	1.7	39
27	Fragmentation modelling of the 2019 August impact on Jupiter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 4622-4630.	4.4	6
28	Virtual European Solar & Planetary Access (VESPA): A Planetary Science Virtual Observatory Cornerstone. <i>Data Science Journal</i> , 2020, 19, .	1.3	7
29	The 2018 Martian Global Dust Storm Over the South Polar Region Studied With MEx/VMC. <i>Geophysical Research Letters</i> , 2019, 46, 10330-10337.	4.0	12
30	Morphology and Dynamics of Venus's Middle Clouds With Akatsuki/IR1. <i>Geophysical Research Letters</i> , 2019, 46, 2399-2407.	4.0	10
31	Atmospheric Dynamics and Vertical Structure of Uranus and Neptune's Weather Layers. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	22
32	Venus Cloud Winds and Mean Albedo Variability From Atmospheric Waves. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 2681-2685.	3.6	0
33	Meteorological pressure at Gale crater from a comparison of REMS/MSL data and MCD modelling: Effect of dust storms. <i>Icarus</i> , 2019, 317, 591-609.	2.5	10
34	Analysis of Neptune's 2017 bright equatorial storm. <i>Icarus</i> , 2019, 321, 324-345.	2.5	25
35	A New Dark Vortex on Neptune. <i>Astronomical Journal</i> , 2018, 155, 117.	4.7	22
36	A planetary-scale disturbance in a long living three vortex coupled system in Saturn's atmosphere. <i>Icarus</i> , 2018, 302, 499-513.	2.5	14

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37	VESPA: A community-driven Virtual Observatory in Planetary Science. <i>Planetary and Space Science</i> , 2018, 150, 65-85.	1.7	28
38	The Planetary Virtual Observatory and Laboratory (PVOL) and its integration into the Virtual European Solar and Planetary Access (VESPA). <i>Planetary and Space Science</i> , 2018, 150, 22-35.	1.7	25
39	Virtual Planetary Space Weather Services offered by the Europlanet H2020 Research Infrastructure. <i>Planetary and Space Science</i> , 2018, 150, 50-59.	1.7	13
40	Scientific rationale for Uranus and Neptune in situ explorations. <i>Planetary and Space Science</i> , 2018, 155, 12-40.	1.7	69
41	Limb clouds and dust on Mars from images obtained by the Visual Monitoring Camera (VMC) onboard Mars Express. <i>Icarus</i> , 2018, 299, 194-205.	2.5	23
42	A systematic search of sudden pressure drops on Gale crater during two Martian years derived from MSL/REMS data. <i>Icarus</i> , 2018, 299, 308-330.	2.5	33
43	Nightside Winds at the Lower Clouds of Venus with Akatsuki/IR2: Longitudinal, Local Time, and Decadal Variations from Comparison with Previous Measurements. <i>Astrophysical Journal, Supplement Series</i> , 2018, 239, 29.	7.7	21
44	A Seasonally Recurrent Annular Cyclone in Mars Northern Latitudes and Observations of a Companion Vortex. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 3020-3034.	3.6	11
45	Detectability of possible space weather effects on Mars upper atmosphere and meteor impacts in Jupiter and Saturn with small telescopes. <i>Journal of Space Weather and Space Climate</i> , 2018, 8, A57.	3.3	2
46	Seasonal Deposition and Lifting of Dust on Mars as Observed by the Curiosity Rover. <i>Scientific Reports</i> , 2018, 8, 17576.	3.3	36
47	The Rich Dynamics of Jupiter's Great Red Spot from JunoCam: Juno Images. <i>Astronomical Journal</i> , 2018, 156, 162.	4.7	19
48	Small impacts on the giant planet Jupiter. <i>Astronomy and Astrophysics</i> , 2018, 617, A68.	5.1	18
49	A New, Long-lived, Jupiter Mesoscale Wave Observed at Visible Wavelengths. <i>Astronomical Journal</i> , 2018, 156, 79.	4.7	14
50	Jupiter's Mesoscale Waves Observed at 5 $\mu$ m by Ground-based Observations and Juno JIRAM. <i>Astronomical Journal</i> , 2018, 156, 67.	4.7	17
51	Neptune long-lived atmospheric features in 2013-2015 from small (28-cm) to large (10-m) telescopes. <i>Icarus</i> , 2017, 295, 89-109.	2.5	21
52	Jupiter cloud morphology and zonal winds from ground-based observations before and during Juno's first perijove. <i>Geophysical Research Letters</i> , 2017, 44, 4669-4678.	4.0	21
53	A planetary-scale disturbance in the most intense Jovian atmospheric jet from JunoCam and ground-based observations. <i>Geophysical Research Letters</i> , 2017, 44, 4679-4686.	4.0	35
54	Venus's winds and temperatures during the MESSENGER's flyby: An approximation to a three-dimensional instantaneous state of the atmosphere. <i>Geophysical Research Letters</i> , 2017, 44, 3907-3915.	4.0	18

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55	The size, shape, density and ring of the dwarf planet Haumea from a stellar occultation. <i>Nature</i> , 2017, 550, 219-223.	27.8	179
56	Stationary waves and slowly moving features in the night upper clouds of Venus. <i>Nature Astronomy</i> , 2017, 1, .	10.1	35
57	Temporal and spatial variations of the absolute reflectivity of Jupiter and Saturn from 0.38 to 1.7 $\mu\text{m}$ with PlanetCam-UPV/EHU. <i>Astronomy and Astrophysics</i> , 2017, 607, A72.	5.1	13
58	Interferometry of binary stars using polymer optical fibres. <i>European Journal of Physics</i> , 2017, 38, 045704.	0.6	3
59	Teaching stellar interferometry with polymer optical fibers. , 2017, , .		0
60	PlanetCam UPV/EHU: A Two-channel Lucky Imaging Camera for Solar System Studies in the Spectral Range 0.38–1.7 $\mu\text{m}$ . <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 035002.	3.1	23
61	Giant Planet Observations with the James Webb Space Telescope. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 018005.	3.1	29
62	Potential vorticity of the south polar vortex of Venus. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 574-593.	3.6	6
63	VENUS CLOUD MORPHOLOGY AND MOTIONS FROM GROUND-BASED IMAGES AT THE TIME OF THE AKATSUKI ORBIT INSERTION. <i>Astrophysical Journal Letters</i> , 2016, 833, L7.	8.3	16
64	An enduring rapidly moving storm as a guide to Saturn's Equatorial jet's complex structure. <i>Nature Communications</i> , 2016, 7, 13262.	12.8	21
65	The Hera Saturn entry probe mission. <i>Planetary and Space Science</i> , 2016, 130, 80-103.	1.7	26
66	Spatial distribution of jovian clouds, hazes and colors from Cassini ISS multi-spectral images. <i>Icarus</i> , 2016, 267, 34-50.	2.5	9
67	The EChO science case. <i>Experimental Astronomy</i> , 2015, 40, 329-391.	3.7	31
68	Dynamics of Saturn's polar regions. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 155-176.	3.6	40
69	Six years of Venus winds at the upper cloud level from UV, visible and near infrared observations from VIRTIS on Venus Express. <i>Planetary and Space Science</i> , 2015, 113-114, 78-99.	1.7	69
70	Instantaneous three-dimensional thermal structure of the South Polar Vortex of Venus. <i>Icarus</i> , 2015, 245, 16-31.	2.5	18
71	Instrumental methods for professional and amateur collaborations in planetary astronomy. <i>Experimental Astronomy</i> , 2014, 38, 91-191.	3.7	47
72	Scientific rationale for Saturn's in situ exploration. <i>Planetary and Space Science</i> , 2014, 104, 29-47.	1.7	49

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73	The Aula Espazío Gela and the Master of Space Science and Technology in the Universidad del País Vasco (University of the Basque Country). <i>European Journal of Engineering Education</i> , 2014, 39, 518-526.	2.3	16
74	The long-term steady motion of Saturn's hexagon and the stability of its enclosed jet stream under seasonal changes. <i>Geophysical Research Letters</i> , 2014, 41, 1425-1431.	4.0	43
75	A daylight experiment for teaching stellar interferometry. <i>American Journal of Physics</i> , 2014, 82, 649-653.	0.7	10
76	A model of scattered thermal radiation for Venus from 3 to. <i>Planetary and Space Science</i> , 2013, 81, 65-73.	1.7	11
77	Atmospheric dynamics of Saturn's 2010 giant storm. <i>Nature Geoscience</i> , 2013, 6, 525-529.	12.9	26
78	Limb imaging of the Venus O <sub>2</sub> visible nightglow with the Venus Monitoring Camera. <i>Geophysical Research Letters</i> , 2013, 40, 2539-2543.	4.0	7
79	A chaotic long-lived vortex at the southern pole of Venus. <i>Nature Geoscience</i> , 2013, 6, 254-257.	12.9	32
80	Impact flux on Jupiter: From superbolides to large-scale collisions. <i>Astronomy and Astrophysics</i> , 2013, 560, A55.	5.1	29
81	Colors of Jupiter's large anticyclones and the interaction of a Tropical Red Oval with the Great Red Spot in 2008. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 2537-2557.	3.6	15
82	Jupiter's zonal winds and their variability studied with small-size telescopes. <i>Astronomy and Astrophysics</i> , 2013, 554, A74.	5.1	14
83	PlanetCam UPV/EHU: a simultaneous visible and near infrared lucky-imaging camera to study solar system objects. , 2012, , .		4
84	EChO. <i>Experimental Astronomy</i> , 2012, 34, 311-353.	3.7	98
85	Ground-based observations of the long-term evolution and death of Saturn's 2010 Great White Spot. <i>Icarus</i> , 2012, 220, 561-576.	2.5	36
86	Solar migrating atmospheric tides in the winds of the polar region of Venus. <i>Icarus</i> , 2012, 220, 958-970.	2.5	28
87	Assessing the long-term variability of Venus winds at cloud level from VIRTIS on Venus Express. <i>Icarus</i> , 2012, 217, 585-598.	2.5	67
88	Episodic bright and dark spots on Uranus. <i>Icarus</i> , 2012, 220, 6-22.	2.5	39
89	Long-term evolution of the aerosol debris cloud produced by the 2009 impact on Jupiter. <i>Icarus</i> , 2011, 214, 462-476.	2.5	13
90	Saturn's zonal wind profile in 2004-2009 from Cassini ISS images and its long-term variability. <i>Icarus</i> , 2011, 215, 62-74.	2.5	88

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91	The atmospheric influence, size and possible asteroidal nature of the July 2009 Jupiter impactor. <i>Icarus</i> , 2011, 211, 587-602.	2.5	29
92	Dynamics of Jupiter's equatorial region at cloud top level from Cassini and HST images. <i>Icarus</i> , 2011, 211, 1242-1257.	2.5	24
93	Thermal Structure and Dynamics of Saturn's Northern Springtime Disturbance. <i>Science</i> , 2011, 332, 1413-1417.	12.6	75
94	Deep winds beneath Saturn's upper clouds from a seasonal long-lived planetary-scale storm. <i>Nature</i> , 2011, 475, 71-74.	27.8	98
95	The science of EChO. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 359-370.	0.0	5
96	JUPITER AFTER THE 2009 IMPACT: <i>HUBBLE SPACE TELESCOPE</i> IMAGING OF THE IMPACT-GENERATED DEBRIS AND ITS TEMPORAL EVOLUTION. <i>Astrophysical Journal Letters</i> , 2010, 715, L150-L154.	8.3	36
97	FIRST EARTH-BASED DETECTION OF A SUPERBOLIDE ON JUPITER. <i>Astrophysical Journal Letters</i> , 2010, 721, L129-L133.	8.3	28
98	A long-lived cyclone in Saturn's atmosphere: Observations and models. <i>Icarus</i> , 2010, 209, 665-681.	2.5	17
99	The Planetary Laboratory for Image Analysis (PLIA). <i>Advances in Space Research</i> , 2010, 46, 1120-1138.	2.6	37
100	The international outer planets watch atmospheres node database of giant-planet images. <i>Planetary and Space Science</i> , 2010, 58, 1152-1159.	1.7	40
101	A strong high altitude narrow jet detected at Saturn's equator. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	20
102	THE IMPACT OF A LARGE OBJECT ON JUPITER IN 2009 JULY. <i>Astrophysical Journal Letters</i> , 2010, 715, L155-L159.	8.3	47
103	Dynamics and Clouds in Jupiter Equatorial Zone. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2010, , 449-449.	0.3	0
104	Venus Spectrophotometry During the MESSENGER Mission Fly-By. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2010, , 455-455.	0.3	0
105	The jovian anticyclone BAI. Motions and interaction with the GRS from observations and non-linear simulations. <i>Icarus</i> , 2009, 203, 486-498.	2.5	26
106	The jovian anticyclone BAIII. Aerosol properties and color change. <i>Icarus</i> , 2009, 203, 516-530.	2.5	29
107	Kronos: exploring the depths of Saturn with probes and remote sensing through an international mission. <i>Experimental Astronomy</i> , 2009, 23, 947-976.	3.7	10
108	Vertical shears in Saturn's eastward jets at cloud level. <i>Icarus</i> , 2009, 201, 818-820.	2.5	18

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109	Gravity waves in Jupiter's equatorial clouds observed by the Galileo orbiter. <i>Icarus</i> , 2009, 202, 358-360.	2.5	18
110	The jovian anticyclone BAll. Circulation and interaction with the zonal jets. <i>Icarus</i> , 2009, 203, 499-515.	2.5	54
111	Jupiter's polar clouds and waves from Cassini and HST images: 1993â€“2006. <i>Icarus</i> , 2008, 194, 173-185.	2.5	31
112	Depth of a strong jovian jet from a planetary-scale disturbance driven by storms. <i>Nature</i> , 2008, 451, 437-440.	27.8	82
113	Distribution of the O <sub>2</sub> infrared nightglow observed with VIRTIS on board Venus Express. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	50
114	Variable winds on Venus mapped in three dimensions. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	119
115	Morphology and dynamics of Venus oxygen airglow from Venus Express/Visible and Infrared Thermal Imaging Spectrometer observations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	52
116	Characterization of mesoscale gravity waves in the upper and lower clouds of Venus from VEXâ€™VIRTIS images. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	60
117	The three-dimensional structure of Saturn's equatorial jet at cloud level. <i>Icarus</i> , 2007, 187, 510-519.	2.5	37
118	A reanalysis of Venus winds at two cloud levels from Galileo SSI images. <i>Icarus</i> , 2007, 190, 469-477.	2.5	60
119	Scientific goals for the observation of Venus by VIRTIS on ESA/Venus express mission. <i>Planetary and Space Science</i> , 2007, 55, 1653-1672.	1.7	155
120	A dynamic upper atmosphere of Venus as revealed by VIRTIS on Venus Express. <i>Nature</i> , 2007, 450, 641-645.	27.8	95
121	South-polar features on Venus similar to those near the north pole. <i>Nature</i> , 2007, 450, 637-640.	27.8	110
122	Cloud brightness distribution and turbulence in Venus using Galileo violet images. <i>Icarus</i> , 2007, 188, 305-314.	2.5	22
123	Numerical models of Saturn's long-lived anticyclones. <i>Icarus</i> , 2007, 191, 665-677.	2.5	20
124	Two Years of Saturn's Exploration by the Cassini Spacecraft: Atmospheric Studies. , 2007, , 303-310.		0
125	The composition of Jupiter: sign of a (relatively) late formation in a chemically evolved protosolar disc. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2006, 367, L47-L51.	3.3	122
126	Methane storms on Saturn's moon Titan. <i>Nature</i> , 2006, 442, 428-431.	27.8	112



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127	A strong vortex in Saturn's South Pole. <i>Icarus</i> , 2006, 184, 524-531.	2.5	46
128	MOIST CONVECTIVE STORMS IN THE ATMOSPHERES OF JUPITER AND SATURN Atmospheric storms in Jupiter and Saturn. , 2006, , 211-220.		1
129	Evolution of protoplanetary disks: constraints from DMÂTauri and GMÂAurigae. <i>Astronomy and Astrophysics</i> , 2005, 442, 703-725.	5.1	239
130	Saturn's cloud morphology and zonal winds before the Cassini encounter. <i>Icarus</i> , 2004, 170, 519-523.	2.5	45
131	A three-dimensional model of moist convection for the giant planets II: Saturn's water and ammonia moist convective storms. <i>Icarus</i> , 2004, 172, 255-271.	2.5	52
132	Clouds in planetary atmospheres: A useful application of the Clausius-Clapeyron equation. <i>American Journal of Physics</i> , 2004, 72, 767-774.	0.7	57
133	Evolution of the Protosolar Nebula and Formation of the Giant Planets. <i>Space Science Reviews</i> , 2003, 106, 105-120.	8.1	13
134	A strong decrease in Saturn's equatorial jet at cloud level. <i>Nature</i> , 2003, 423, 623-625.	27.8	74
135	Constraining Theory and Modelling of Protoplanetary Discs. , 2003, , 281-284.		0
136	Evolution of the Protosolar Nebula and Formation of the Giant Planets. <i>Space Sciences Series of ISSI</i> , 2003, , 105-120.	0.0	1
137	The Role of Large Scale Jovian Storms in the Energy Balance of Jupiter. , 2003, , 369-372.		0
138	A model for large-scale convective storms in Jupiter. <i>Journal of Geophysical Research</i> , 2002, 107, 5-1.	3.3	39
139	A Three-Dimensional Model of Moist Convection for the Giant Planets: The Jupiter Case. <i>Icarus</i> , 2001, 151, 257-274.	2.5	51
140	Observations of Interactions between Giant Vortices in the Atmosphere of Jupiter: 1997-2000. , 2001, , 261-264.		0
141	A theoretical study of parcel stability and cloud distribution in a Jovian hot spot. <i>Planetary and Space Science</i> , 1999, 47, 1263-1275.	1.7	7
142	Interaction of Jovian White Ovals BC and DE in 1998 from Earth-Based Observations in the Visual Range. <i>Icarus</i> , 1999, 142, 116-124.	2.5	36
143	An Overview of Saturn's Equatorial Storms: 1990 - 1997. <i>Astrophysics and Space Science</i> , 1998, 263, 351-354.	1.4	2
144	Long-Term Evolution of Comet SL-9 Impact Features: July 1994-September 1996. <i>Icarus</i> , 1998, 131, 341-357.	2.5	17

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145	Dynamics and Interaction between a Large-Scale Vortex and the Great Red Spot in Jupiter. <i>Icarus</i> , 1998, 136, 14-26.	2.5	16
146	Motions in Jovian Hot Spotâ€™Plume Regions Using Voyager Images. <i>Icarus</i> , 1998, 136, 353-357.	2.5	10
147	A system of circumpolar waves in Jupiter's stratosphere. <i>Geophysical Research Letters</i> , 1998, 25, 4043-4046.	4.0	13