## AgustÃ-n SÃ;nchez-Lavega

List of Publications by Year in descending order

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	117625	182427
3,443	34	51
citations	h-index	g-index
123	123	1494
docs citations	times ranked	citing authors
	citations 123	3,44334citationsh-index123123

#	Article	IF	CITATIONS
1	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
2	Saturn's Zonal Winds at Cloud Level. Icarus, 2000, 147, 405-420.	2.5	132
3	Variable winds on Venus mapped in three dimensions. Geophysical Research Letters, 2008, 35, .	4.0	119
4	Morphology of the cloud tops as observed by the Venus Express Monitoring Camera. Icarus, 2012, 217, 682-701.	2.5	99
5	Deep winds beneath Saturn's upper clouds from a seasonal long-lived planetary-scale storm. Nature, 2011, 475, 71-74.	27.8	98
6	The Atmospheric Dynamics of Venus. Space Science Reviews, 2017, 212, 1541-1616.	8.1	95
7	Saturn's zonal wind profile in 2004–2009 from Cassini ISS images and its long-term variability. Icarus, 2011, 215, 62-74.	2.5	88
8	Depth of a strong jovian jet from a planetary-scale disturbance driven by storms. Nature, 2008, 451, 437-440.	27.8	82
9	A strong decrease in Saturn's equatorial jet at cloud level. Nature, 2003, 423, 623-625.	27.8	74
10	The Merger of Two Giant Anticyclones in the Atmosphere of Jupiter. Icarus, 2001, 149, 491-495.	2.5	69
11	Six years of Venus winds at the upper cloud level from UV, visible and near infrared observations from VIRTIS on Venus Express. Planetary and Space Science, 2015, 113-114, 78-99.	1.7	69
12	Scientific rationale for Uranus and Neptune in situ explorations. Planetary and Space Science, 2018, 155, 12-40.	1.7	69
13	Assessing the long-term variability of Venus winds at cloud level from VIRTIS–Venus Express. Icarus, 2012, 217, 585-598.	2.5	67
14	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
15	The jovian anticyclone BAII. Circulation and interaction with the zonal jets. Icarus, 2009, 203, 499-515.	2.5	54
16	A three-dimensional model of moist convection for the giant planets II: Saturn's water and ammonia moist convective storms. Icarus, 2004, 172, 255-271.	2.5	52
17	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
18	Distribution of the O <sub>2</sub> infrared nightglow observed with VIRTIS on board Venus Express. Geophysical Research Letters, 2008, 35, .	4.0	50

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19	Instrumental methods for professional and amateur collaborations in planetary astronomy. Experimental Astronomy, 2014, 38, 91-191.	3.7	47
20	The Onset and Growth of the 2018 Martian Global Dust Storm. Geophysical Research Letters, 2019, 46, 6101-6108.	4.0	47
21	The dynamic atmospheric and aeolian environment of Jezero crater, Mars. Science Advances, 2022, 8, .	10.3	47
22	A strong vortex in Saturn's South Pole. Icarus, 2006, 184, 524-531.	2.5	46
23	Saturn's cloud morphology and zonal winds before the Cassini encounter. Icarus, 2004, 170, 519-523.	2.5	45
24	Large-Scale Storms in Saturn's Atmosphere During 1994. Science, 1996, 271, 631-634.	12.6	44
25	The South Equatorial Belt of Jupiter, I: Its Life Cycle. Icarus, 1996, 121, 1-17.	2.5	44
26	The longâ€ŧerm steady motion of Saturn's hexagon and the stability of its enclosed jet stream under seasonal changes. Geophysical Research Letters, 2014, 41, 1425-1431.	4.0	43
27	Venus Upper Clouds and the UV Absorber From MESSENGER/MASCS Observations. Journal of Geophysical Research E: Planets, 2018, 123, 145-162.	3.6	41
28	The international outer planets watch atmospheres node database of giant-planet images. Planetary and Space Science, 2010, 58, 1152-1159.	1.7	40
29	A model for large-scale convective storms in Jupiter. Journal of Geophysical Research, 2002, 107, 5-1.	3.3	39
30	Episodic bright and dark spots on Uranus. Icarus, 2012, 220, 6-22.	2.5	39
31	Saturn Atmospheric Structure and Dynamics. , 2009, , 113-159.		38
32	The Planetary Laboratory for Image Analysis (PLIA). Advances in Space Research, 2010, 46, 1120-1138.	2.6	37
33	Venus's major cloud feature as an equatorially trapped wave distorted by the wind. Geophysical Research Letters, 2015, 42, 705-711.	4.0	36
34	Seasonal Deposition and Lifting of Dust on Mars as Observed by the Curiosity Rover. Scientific Reports, 2018, 8, 17576.	3.3	36
35	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
36	Stationary waves and slowly moving features in the night upper clouds of Venus. Nature Astronomy, 2017, 1, .	10.1	35

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37	The 2009–2010 fade of Jupiter's South Equatorial Belt: Vertical cloud structure models and zonal winds from visible imaging. Icarus, 2012, 217, 256-271.	2.5	33
38	A systematic search of sudden pressure drops on Gale crater during two Martian years derived from MSL/REMS data. Icarus, 2018, 299, 308-330.	2.5	33
39	Clouds and Aerosols in Saturn's Atmosphere. , 2009, , 161-179.		33
40	A chaotic long-lived vortex at the southern pole of Venus. Nature Geoscience, 2013, 6, 254-257.	12.9	32
41	Jupiter's polar clouds and waves from Cassini and HST images: 1993–2006. Icarus, 2008, 194, 173-185.	2.5	31
42	Giant Planet Observations with the <i>James Webb Space Telescope</i> . Publications of the Astronomical Society of the Pacific, 2016, 128, 018005.	3.1	29
43	Glory revealed in disk-integrated photometry of Venus. Astronomy and Astrophysics, 2014, 566, L1.	5.1	28
44	Jupiter's 24° N highest speed jet: Vertical structure deduced from nonlinear simulations of a large-amplitude natural disturbance. Icarus, 2005, 176, 272-282.	2.5	27
45	Phase dispersion relation of the 5-micron hot spot wave from a long-term study of Jupiter in the visible. Journal of Geophysical Research, 2006, 111, .	3.3	27
46	A disturbance in Jupiter's high-speed North temperate jet during 1990. Icarus, 1991, 94, 92-97.	2.5	26
47	Atmospheric dynamics of Saturn's 2010 giant storm. Nature Geoscience, 2013, 6, 525-529.	12.9	26
48	Saturn's Great White Spots. Chaos, 1994, 4, 341-353.	2.5	26
49	The Planetary Virtual Observatory and Laboratory (PVOL) and its integration into the Virtual European Solar and Planetary Access (VESPA). Planetary and Space Science, 2018, 150, 22-35.	1.7	25
50	Analysis of Neptune's 2017 bright equatorial storm. Icarus, 2019, 321, 324-345.	2.5	25
51	An extremely high-altitude plume seen at Mars' morning terminator. Nature, 2015, 518, 525-528.	27.8	24
52	<i>PlanetCam UPV/EHU</i> : A Two-channel Lucky Imaging Camera for Solar System Studies in the Spectral Range 0.38–1.7 <i>μ</i> m. Publications of the Astronomical Society of the Pacific, 2016, 128, 035002.	3.1	23
53	Cloud morphology and dynamics in Saturn's northern polar region. Icarus, 2018, 299, 117-132.	2.5	23
54	Limb clouds and dust on Mars from images obtained by the Visual Monitoring Camera (VMC) onboard Mars Express. Icarus, 2018, 299, 194-205.	2.5	23

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55	A New Dark Vortex on Neptune. Astronomical Journal, 2018, 155, 117.	4.7	22
56	Atmospheric Dynamics and Vertical Structure of Uranus and Neptune's Weather Layers. Space Science Reviews, 2019, 215, 1.	8.1	22
57	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. Icarus, 2020, 347, 113814.	2.5	22
58	No Hexagonal Wave around Saturn's Southern Pole. Icarus, 2002, 160, 216-219.	2.5	21
59	Neptune long-lived atmospheric features in 2013–2015 from small (28-cm) to large (10-m) telescopes. Icarus, 2017, 295, 89-109.	2.5	21
60	Jupiter cloud morphology and zonal winds from groundâ€based observations before and during Juno's first perijove. Geophysical Research Letters, 2017, 44, 4669-4678.	4.0	21
61	Overview of useful spectral regions for Venus: An update to encourage observations complementary to the Akatsuki mission. Icarus, 2017, 288, 235-239.	2.5	21
62	Nightside Winds at the Lower Clouds of Venus with Akatsuki/IR2: Longitudinal, Local Time, and Decadal Variations from Comparison with Previous Measurements. Astrophysical Journal, Supplement Series, 2018, 239, 29.	7.7	21
63	New cloud morphologies discovered on the Venus's night during Akatsuki. Icarus, 2019, 333, 177-182.	2.5	20
64	Saturn's tropospheric particles phase function and spatial distribution from Cassini ISS 2010–11 observations. Icarus, 2016, 277, 1-18.	2.5	19
65	Haze and cloud structure of Saturn's North Pole and Hexagon Wave from Cassini/ISS imaging. Icarus, 2018, 305, 284-300.	2.5	19
66	The Rich Dynamics of Jupiter's Great Red Spot from JunoCam: Juno Images. Astronomical Journal, 2018, 156, 162.	4.7	19
67	Instantaneous three-dimensional thermal structure of the South Polar Vortex of Venus. Icarus, 2015, 245, 16-31.	2.5	18
68	Venus's winds and temperatures during the MESSENGER's flyby: An approximation to a threeâ€dimensional instantaneous state of the atmosphere. Geophysical Research Letters, 2017, 44, 3907-3915.	4.0	18
69	Ground-based imaging of Jovian cloud morphologies and motions. Icarus, 1988, 76, 533-557.	2.5	17
70	Jupiter's Mesoscale Waves Observed at 5 μ m by Ground-based Observations and Juno JIRAM. Astronomical Journal, 2018, 156, 67.	4.7	17
71	Color and aerosol changes in Jupiter after a North Temperate Belt disturbance. Icarus, 2020, 352, 114031.	2.5	17
72	A Longâ€Lived Sharp Disruption on the Lower Clouds of Venus. Geophysical Research Letters, 2020, 47, e2020GL087221.	4.0	17

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73	Dust particle size, shape and optical depth during the 2018/MY34 martian global dust storm retrieved by MSL Curiosity rover Navigation Cameras. Icarus, 2021, 354, 114021.	2.5	17
74	The Aula EspaZio Gela and the Master of Space Science and Technology in the Universidad del PaÃs Vasco (University of the Basque Country). European Journal of Engineering Education, 2014, 39, 518-526.	2.3	16
75	VENUS CLOUD MORPHOLOGY AND MOTIONS FROM GROUND-BASED IMAGES AT THE TIME OF THE AKATSUKI ORBIT INSERTION < sup > â^- < / sup > . Astrophysical Journal Letters, 2016, 833, L7.	8.3	16
76	The Surface Energy Budget at Gale Crater During the First 2500 Sols of the Mars Science Laboratory Mission. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006804.	3.6	16
77	Observations and numerical modelling of a convective disturbance in a large-scale cyclone in Jupiter's South Temperate Belt. Icarus, 2020, 336, 113475.	2.5	15
78	Jupiter's zonal winds and their variability studied with small-size telescopes. Astronomy and Astrophysics, 2013, 554, A74.	5.1	14
79	A planetary-scale disturbance in a long living three vortex coupled system in Saturn's atmosphere. Icarus, 2018, 302, 499-513.	2.5	14
80	A New, Long-lived, Jupiter Mesoscale Wave Observed at Visible Wavelengths. Astronomical Journal, 2018, 156, 79.	4.7	14
81	A system of circumpolar waves in Jupiter's stratosphere. Geophysical Research Letters, 1998, 25, 4043-4046.	4.0	13
82	A complex storm system in Saturn's north polar atmosphere in 2018. Nature Astronomy, 2020, 4, 180-187.	10.1	13
83	Temporal and spatial variations of the absolute reflectivity of Jupiter and Saturn from 0.38 to 1.7 <i>î¼</i> m with PlanetCam-UPV/EHU. Astronomy and Astrophysics, 2017, 607, A72.	5.1	13
84	The 2018 Martian Global Dust Storm Over the South Polar Region Studied With MEx/VMC. Geophysical Research Letters, 2019, 46, 10330-10337.	4.0	12
85	Jupiter's Great Red Spot: Strong Interactions With Incoming Anticyclones in 2019. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006686.	3.6	12
86	A model of scattered thermal radiation for Venus from 3 to. Planetary and Space Science, 2013, 81, 65-73.	1.7	11
87	A Seasonally Recurrent Annular Cyclone in Mars Northern Latitudes and Observations of a Companion Vortex. Journal of Geophysical Research E: Planets, 2018, 123, 3020-3034.	3.6	11
88	Convective storms and atmospheric vertical structure in Uranus and Neptune. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190476.	3.4	11
89	Shallow water simulations of Saturn's giant storms at different latitudes. Icarus, 2017, 286, 241-260.	2.5	10
90	Morphology and Dynamics of Venus's Middle Clouds With Akatsuki/IR1. Geophysical Research Letters, 2019, 46, 2399-2407.	4.0	10

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91	Meteorological pressure at Gale crater from a comparison of REMS/MSL data and MCD modelling: Effect of dust storms. Icarus, 2019, 317, 591-609.	2.5	10
92	Evolution of the cloud field and wind structure of Jupiter's highest speed jet during a huge disturbance. Astronomy and Astrophysics, 2009, 507, 513-522.	5.1	9
93	A large active wave trapped in Jupiter's equator. Astronomy and Astrophysics, 2016, 586, A154.	5.1	9
94	The Great Saturn Storm of 2010–2011. , 2018, , 377-416.		9
95	Characterization of a local dust storm on Mars with REMS/MSL measurements and MARCI/MRO images. Icarus, 2020, 338, 113521.	2.5	9
96	An Extremely Elongated Cloud Over Arsia Mons Volcano on Mars: I. Life Cycle. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006517.	3.6	9
97	Cellular patterns and dry convection in textured dust storms at the edge of Mars North Polar Cap. Icarus, 2022, 387, 115183.	2.5	9
98	Hazes and clouds in a singular triple vortex in Saturn's atmosphere from HST/WFC3 multispectral imaging. Icarus, 2019, 333, 22-36.	2.5	7
99	Potential Vorticity of Saturn's Polar Regions: Seasonality and Instabilities. Journal of Geophysical Research E: Planets, 2019, 124, 186-201.	3.6	6
100	Multilayer hazes over Saturn's hexagon from Cassini ISS limb images. Nature Communications, 2020, 11, 2281.	12.8	6
101	A Longâ€Term Study of Mars Mesospheric Clouds Seen at Twilight Based on Mars Express VMC Images. Geophysical Research Letters, 2021, 48, e2020GL092188.	4.0	5
102	In Situ exploration of the giant planets. Experimental Astronomy, 2022, 54, 975-1013.	3.7	5
103	Convective storms in closed cyclones in Jupiter's South Temperate Belt: (I) observations. Icarus, 2022, 380, 114994.	2.5	5
104	PlanetCam UPV/EHU: a simultaneous visible and near infrared lucky-imaging camera to study solar system objects. , 2012, , .		4
105	Midsummer Atmospheric Changes in Saturn's Northern Hemisphere from the Hubble OPAL Program. Planetary Science Journal, 2021, 2, 47.	3.6	4
106	Jupiter's third largest and longest-lived oval: Color changes and dynamics. Icarus, 2021, 361, 114394.	2.5	4
107	Assessing Multiâ€Stream Radiative Transfer Schemes for the Calculation of Aerosol Radiative Forcing in the Martian Atmosphere. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006889.	3.6	4
108	Vertical Distribution of Aerosols and Hazes Over Jupiter's Great Red Spot and Its Surroundings in 2016 From HST/WFC3 Imaging. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006996.	3.6	4

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109	Using Galilean satellites' mutual orbital events as an educational tool for studies of orbital dynamics. European Journal of Physics, 2017, 38, 065601.	0.6	2
110	Convective storms in closed cyclones in Jupiter: (II) numerical modeling. Icarus, 2022, 386, 115169.	2.5	2
111	Basic orbital mechanics from simple observations of the main satellites of Saturn, Uranus and Neptune. European Journal of Physics, 2019, 40, 035601.	0.6	1
112	Interaction of Saturn's Hexagon With Convective Storms. Geophysical Research Letters, 2021, 48, e2021GL092461.	4.0	1
113	Energy Exchanges in Saturn's Polar Regions From Cassini Observations: Eddyâ€Zonal Flow Interactions. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	1