AgustÃ-n SÃ;nchez-Lavega

List of Publications by Year in descending order

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113 papers 3,443 citations

34 h-index 51 g-index

123 all docs

123 docs citations

times ranked

123

1494 citing authors

#	Article	IF	CITATIONS
1	In Situ exploration of the giant planets. Experimental Astronomy, 2022, 54, 975-1013.	3.7	5
2	Convective storms in closed cyclones in Jupiter's South Temperate Belt: (I) observations. Icarus, 2022, 380, 114994.	2. 5	5
3	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
4	The dynamic atmospheric and aeolian environment of Jezero crater, Mars. Science Advances, 2022, 8, .	10.3	47
5	Convective storms in closed cyclones in Jupiter: (II) numerical modeling. Icarus, 2022, 386, 115169.	2.5	2
6	Cellular patterns and dry convection in textured dust storms at the edge of Mars North Polar Cap. Icarus, 2022, 387, 115183.	2.5	9
7	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
8	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
9	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
10	Midsummer Atmospheric Changes in Saturn's Northern Hemisphere from the Hubble OPAL Program. Planetary Science Journal, 2021, 2, 47.	3.6	4
11	Jupiter's Great Red Spot: Strong Interactions With Incoming Anticyclones in 2019. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006686.	3.6	12
12	Interaction of Saturn's Hexagon With Convective Storms. Geophysical Research Letters, 2021, 48, e2021GL092461.	4.0	1
13	Jupiter's third largest and longest-lived oval: Color changes and dynamics. Icarus, 2021, 361, 114394.	2.5	4
14	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
15	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
16	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
17	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
18	Characterization of a local dust storm on Mars with REMS/MSL measurements and MARCI/MRO images. lcarus, 2020, 338, 113521.	2.5	9

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19	A complex storm system in Saturn's north polar atmosphere in 2018. Nature Astronomy, 2020, 4, 180-187.	10.1	13
20	Color and aerosol changes in Jupiter after a North Temperate Belt disturbance. Icarus, 2020, 352, 114031.	2. 5	17
21	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
22	Multilayer hazes over Saturn's hexagon from Cassini ISS limb images. Nature Communications, 2020, 11, 2281.	12.8	6
23	A Longâ€Lived Sharp Disruption on the Lower Clouds of Venus. Geophysical Research Letters, 2020, 47, e2020GL087221.	4.0	17
24	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
25	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
26	Hazes and clouds in a singular triple vortex in Saturn's atmosphere from HST/WFC3 multispectral imaging. lcarus, 2019, 333, 22-36.	2.5	7
27	New cloud morphologies discovered on the Venus's night during Akatsuki. Icarus, 2019, 333, 177-182.	2.5	20
28	The Onset and Growth of the 2018 Martian Global Dust Storm. Geophysical Research Letters, 2019, 46, 6101-6108.	4.0	47
29	Morphology and Dynamics of Venus's Middle Clouds With Akatsuki/IR1. Geophysical Research Letters, 2019, 46, 2399-2407.	4.0	10
30	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
31	Atmospheric Dynamics and Vertical Structure of Uranus and Neptune's Weather Layers. Space Science Reviews, 2019, 215, 1.	8.1	22
32	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
33	Potential Vorticity of Saturn's Polar Regions: Seasonality and Instabilities. Journal of Geophysical Research E: Planets, 2019, 124, 186-201.	3.6	6
34	Analysis of Neptune's 2017 bright equatorial storm. Icarus, 2019, 321, 324-345.	2.5	25
35	A New Dark Vortex on Neptune. Astronomical Journal, 2018, 155, 117.	4.7	22
36	Venus Upper Clouds and the UV Absorber From MESSENGER/MASCS Observations. Journal of Geophysical Research E: Planets, 2018, 123, 145-162.	3.6	41

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37	A planetary-scale disturbance in a long living three vortex coupled system in Saturn's atmosphere. Icarus, 2018, 302, 499-513.	2.5	14
38	Haze and cloud structure of Saturn's North Pole and Hexagon Wave from Cassini/ISS imaging. Icarus, 2018, 305, 284-300.	2.5	19
39	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
40	Scientific rationale for Uranus and Neptune in situ explorations. Planetary and Space Science, 2018, 155, 12-40.	1.7	69
41	Cloud morphology and dynamics in Saturn's northern polar region. Icarus, 2018, 299, 117-132.	2.5	23
42	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
43	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
44	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
45	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
46	Seasonal Deposition and Lifting of Dust on Mars as Observed by the Curiosity Rover. Scientific Reports, 2018, 8, 17576.	3.3	36
47	The Great Saturn Storm of 2010–2011. , 2018, , 377-416.		9
48	The Rich Dynamics of Jupiter's Great Red Spot from JunoCam: Juno Images. Astronomical Journal, 2018, 156, 162.	4.7	19
49	A New, Long-lived, Jupiter Mesoscale Wave Observed at Visible Wavelengths. Astronomical Journal, 2018, 156, 79.	4.7	14
50	Jupiter's Mesoscale Waves Observed at 5 μm by Ground-based Observations and Juno JIRAM. Astronomical Journal, 2018, 156, 67.	4.7	17
51	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
52	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
53	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
54	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

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55	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
56	The Atmospheric Dynamics of Venus. Space Science Reviews, 2017, 212, 1541-1616.	8.1	95
57	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
58	Shallow water simulations of Saturn's giant storms at different latitudes. Icarus, 2017, 286, 241-260.	2.5	10
59	Stationary waves and slowly moving features in the night upper clouds of Venus. Nature Astronomy, 2017, 1 , .	10.1	35
60	Temporal and spatial variations of the absolute reflectivity of Jupiter and Saturn from 0.38 to $1.7 < i > \hat{1} \frac{1}{4} < i> m$ with PlanetCam-UPV/EHU. Astronomy and Astrophysics, 2017, 607, A72.	5.1	13
61	A large active wave trapped in Jupiter's equator. Astronomy and Astrophysics, 2016, 586, A154.	5.1	9
62	<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
63	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
64	VENUS CLOUD MORPHOLOGY AND MOTIONS FROM GROUND-BASED IMAGES AT THE TIME OF THE AKATSUKI ORBIT INSERTION â^-</">sup>. Astrophysical Journal Letters, 2016, 833, L7.	8.3	16
65	Saturn's tropospheric particles phase function and spatial distribution from Cassini ISS 2010–11 observations. Icarus, 2016, 277, 1-18.	2.5	19
66	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
67	An extremely high-altitude plume seen at Mars' morning terminator. Nature, 2015, 518, 525-528.	27.8	24
68	Venus's major cloud feature as an equatorially trapped wave distorted by the wind. Geophysical Research Letters, 2015, 42, 705-711.	4.0	36
69	Instantaneous three-dimensional thermal structure of the South Polar Vortex of Venus. Icarus, 2015, 245, 16-31.	2.5	18
70	Instrumental methods for professional and amateur collaborations in planetary astronomy. Experimental Astronomy, 2014, 38, 91-191.	3.7	47
71	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
72	The longâ€term 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

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73	Glory revealed in disk-integrated photometry of Venus. Astronomy and Astrophysics, 2014, 566, L1.	5.1	28
74	A model of scattered thermal radiation for Venus from 3 to. Planetary and Space Science, 2013, 81, 65-73.	1.7	11
75	Atmospheric dynamics of Saturn's 2010 giant storm. Nature Geoscience, 2013, 6, 525-529.	12.9	26
76	A chaotic long-lived vortex at the southern pole of Venus. Nature Geoscience, 2013, 6, 254-257.	12.9	32
77	Jupiter's zonal winds and their variability studied with small-size telescopes. Astronomy and Astrophysics, 2013, 554, A74.	5.1	14
78	PlanetCam UPV/EHU: a simultaneous visible and near infrared lucky-imaging camera to study solar system objects. , 2012, , .		4
79	Assessing the long-term variability of Venus winds at cloud level from VIRTIS–Venus Express. Icarus, 2012, 217, 585-598.	2.5	67
80	Morphology of the cloud tops as observed by the Venus Express Monitoring Camera. Icarus, 2012, 217, 682-701.	2.5	99
81	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
82	Episodic bright and dark spots on Uranus. Icarus, 2012, 220, 6-22.	2.5	39
83	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
84	Deep winds beneath Saturn's upper clouds from a seasonal long-lived planetary-scale storm. Nature, 2011, 475, 71-74.	27.8	98
85	The Planetary Laboratory for Image Analysis (PLIA). Advances in Space Research, 2010, 46, 1120-1138.	2.6	37
86	The international outer planets watch atmospheres node database of giant-planet images. Planetary and Space Science, 2010, 58, 1152-1159.	1.7	40
87	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
88	The jovian anticyclone BAII. Circulation and interaction with the zonal jets. Icarus, 2009, 203, 499-515.	2.5	54
89	Saturn Atmospheric Structure and Dynamics. , 2009, , 113-159.		38
90	Clouds and Aerosols in Saturn's Atmosphere. , 2009, , 161-179.		33

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91	Jupiter's polar clouds and waves from Cassini and HST images: 1993–2006. Icarus, 2008, 194, 173-185.	2.5	31
92	Depth of a strong jovian jet from a planetary-scale disturbance driven by storms. Nature, 2008, 451, 437-440.	27.8	82
93	Distribution of the O ₂ infrared nightglow observed with VIRTIS on board Venus Express. Geophysical Research Letters, 2008, 35, .	4.0	50
94	Variable winds on Venus mapped in three dimensions. Geophysical Research Letters, 2008, 35, .	4.0	119
95	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
96	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
97	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
98	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
99	A strong vortex in Saturn's South Pole. Icarus, 2006, 184, 524-531.	2.5	46
100	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
101	Saturn's cloud morphology and zonal winds before the Cassini encounter. Icarus, 2004, 170, 519-523.	2.5	45
102	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
103	A strong decrease in Saturn's equatorial jet at cloud level. Nature, 2003, 423, 623-625.	27.8	74
104	A model for large-scale convective storms in Jupiter. Journal of Geophysical Research, 2002, 107, 5-1.	3.3	39
105	No Hexagonal Wave around Saturn's Southern Pole. Icarus, 2002, 160, 216-219.	2.5	21
106	The Merger of Two Giant Anticyclones in the Atmosphere of Jupiter. Icarus, 2001, 149, 491-495.	2. 5	69
107	Saturn's Zonal Winds at Cloud Level. Icarus, 2000, 147, 405-420.	2.5	132
108	A system of circumpolar waves in Jupiter's stratosphere. Geophysical Research Letters, 1998, 25, 4043-4046.	4.0	13

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109	Large-Scale Storms in Saturn's Atmosphere During 1994. Science, 1996, 271, 631-634.	12.6	44
110	The South Equatorial Belt of Jupiter, I: Its Life Cycle. Icarus, 1996, 121, 1-17.	2.5	44
111	Saturn's Great White Spots. Chaos, 1994, 4, 341-353.	2.5	26
112	A disturbance in Jupiter's high-speed North temperate jet during 1990. Icarus, 1991, 94, 92-97.	2.5	26
113	Ground-based imaging of Jovian cloud morphologies and motions. Icarus, 1988, 76, 533-557.	2.5	17