Agustin Maria Sanchez Lavega

List of Publications by Year
in descending order

64 papers	1,641 citations	236925 25 h-index	315739 38 g-index
65 all docs	65 docs citations	65 times ranked	1010 citing authors

#	Article	IF	Citations
1	From storms to cyclones at Jupiterâ€™s poles. Nature Physics, 2022, 18, 226-227.	16.7	0
2	Constraints on the structure and seasonal variations of Tritonâ€™s atmosphere from the 5 October 2017 stellar occultation and previous observations. Astronomy and Astrophysics, 2022, 659, A136.	5.1	8
3	Convective storms in closed cyclones in Jupiter's South Temperate Belt: (I) observations. Icarus, 2022, 380, 114994.	2.5	5
4	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
5	The dynamic atmospheric and aeolian environment of Jezero crater, Mars. Science Advances, 2022, 8, .	10.3	47
6	Convective storms in closed cyclones in Jupiter: (II) numerical modeling. Icarus, 2022, 386, 115169.	2.5	2
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	Midsummer Atmospheric Changes in Saturnâ€™s Northern Hemisphere from the Hubble OPAL Program. Planetary Science Journal, 2021, 2, 47.	3.6	4
9	Jupiterâ€™s Great Red Spot: Strong Interactions With Incoming Anticyclones in 2019. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006686.	3.6	12
10	Interaction of Saturnâ€™s Hexagon With Convective Storms. Geophysical Research Letters, 2021, 48, e2021GL092461.	4.0	1
11	Jupiter's third largest and longest-lived oval: Color changes and dynamics. Icarus, 2021, 361, 114394.	2.5	4
12	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
13	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
14	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
15	A complex storm system in Saturnâ€™s north polar atmosphere in 2018. Nature Astronomy, 2020, 4, 180-187.	10.1	13
16	Multilayer hazes over Saturnâ€™s hexagon from Cassini ISS limb images. Nature Communications, 2020, 11, 2281.	12.8	6
17	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
18	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

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19	The Onset and Growth of the 2018 Martian Global Dust Storm. Geophysical Research Letters, 2019, 46, 6101-6108.	4.0	47
20	Characterisation of Martian dust aerosol phase function from sky radiance measurements by MSL engineering cameras. Icarus, 2019, 330, 16-29.	2.5	11
21	Morphology and Dynamics of Venus's Middle Clouds With Akatsuki/IR1. Geophysical Research Letters, 2019, 46, 2399-2407.	4.0	10
22	Gas Giants. , 2019, , 72-103.		14
23	Potential Vorticity of Saturn's Polar Regions: Seasonality and Instabilities. Journal of Geophysical Research E: Planets, 2019, 124, 186-201.	3.6	6
24	Analysis of Neptuneâ€™s 2017 bright equatorial storm. Icarus, 2019, 321, 324-345.	2.5	25
25	Dust particle size and optical depth on Mars retrieved by the MSL navigation cameras. Icarus, 2019, 319, 43-57.	2.5	28
26	Venus Upper Clouds and the UV Absorber From MESSENGER/MASCS Observations. Journal of Geophysical Research E: Planets, 2018, 123, 145-162.	3.6	41
27	A planetary-scale disturbance in a long living three vortex coupled system in Saturn's atmosphere. Icarus, 2018, 302, 499-513.	2.5	14
28	Haze and cloud structure of Saturn's North Pole and Hexagon Wave from Cassini/ISS imaging. Icarus, 2018, 305, 284-300.	2.5	19
29	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
30	Cloud morphology and dynamics in Saturn's northern polar region. Icarus, 2018, 299, 117-132.	2.5	23
31	Saturnâ€™s Polar Atmosphere. , 2018, , 337-376.		11
32	The Rich Dynamics of Jupiterâ€™s Great Red Spot from JunoCam: Juno Images. Astronomical Journal, 2018, 156, 162.	4.7	19
33	Shallow water simulations of Saturn's giant storms at different latitudes. Icarus, 2017, 286, 241-260.	2.5	10
34	Temporal and spatial variations of the absolute reflectivity of Jupiter and Saturn from 0.38 to 1.7Î¼m with PlanetCam-UPV/EHU. Astronomy and Astrophysics, 2017, 607, A72.	5.1	13
35	PlanetCam UPV/EHU: A Two-channel Lucky Imaging Camera for Solar System Studies in the Spectral Range 0.38â€“1.7Î¼m. Publications of the Astronomical Society of the Pacific, 2016, 128, 035002.	3.1	23
36	An enduring rapidly moving storm as a guide to Saturnâ€™s Equatorial jetâ€™s complex structure. Nature Communications, 2016, 7, 13262.	12.8	21

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37	Spatial distribution of jovian clouds, hazes and colors from Cassini ISS multi-spectral images. Icarus, 2016, 267, 34-50.	2.5	9
38	Dynamics of Saturn's polar regions. Journal of Geophysical Research E: Planets, 2015, 120, 155-176.	3.6	40
39	An extremely high-altitude plume seen at Marsâ€™ morning terminator. Nature, 2015, 518, 525-528.	27.8	24
40	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
41	A chaotic long-lived vortex at the southern pole of Venus. Nature Geoscience, 2013, 6, 254-257.	12.9	32
42	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
43	Vertical cloud structure of the 2009 Jupiter impact based on HST/WFC3 observations. Icarus, 2012, 221, 1061-1078.	2.5	8
44	The 2009â€“2010 fade of Jupiterâ€™s South Equatorial Belt: Vertical cloud structure models and zonal winds from visible imaging. Icarus, 2012, 217, 256-271.	2.5	33
45	Saturnâ€™s zonal wind profile in 2004â€“2009 from Cassini ISS images and its long-term variability. Icarus, 2011, 215, 62-74.	2.5	88
46	Deep winds beneath Saturnâ€™s upper clouds from a seasonal long-lived planetary-scale storm. Nature, 2011, 475, 71-74.	27.8	98
47	The Planetary Laboratory for Image Analysis (PLIA). Advances in Space Research, 2010, 46, 1120-1138.	2.6	37
48	The jovian anticyclone BAI. Motions and interaction with the GRS from observations and non-linear simulations. Icarus, 2009, 203, 486-498.	2.5	26
49	The jovian anticyclone BAIII. Aerosol properties and color change. Icarus, 2009, 203, 516-530.	2.5	29
50	The jovian anticyclone BAII. Circulation and interaction with the zonal jets. Icarus, 2009, 203, 499-515.	2.5	54
51	Clouds and Aerosols in Saturn's Atmosphere. , 2009, , 161-179.		33
52	Solar flux in Saturn's atmosphere: Penetration and heating rates in the aerosol and cloud layers. Icarus, 2006, 180, 368-378.	2.5	32
53	A strong vortex in Saturn's South Pole. Icarus, 2006, 184, 524-531.	2.5	46
54	Jupiter's cyclones and anticyclones vorticity from Voyager and Galileo images. Icarus, 2005, 174, 178-191.	2.5	30

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55	How Long Is the Day on Saturn?. Science, 2005, 307, 1223-1224.	12.6	32
56	A model for large-scale convective storms in Jupiter. Journal of Geophysical Research, 2002, 107, 5-1.	3.3	39
57	No Hexagonal Wave around Saturn's Southern Pole. Icarus, 2002, 160, 216-219.	2.5	21
58	The Merger of Two Giant Anticyclones in the Atmosphere of Jupiter. Icarus, 2001, 149, 491-495.	2.5	69
59	Saturn's Zonal Winds at Cloud Level. Icarus, 2000, 147, 405-420.	2.5	132
60	The 90-day oscillations of Jupiterâ€™s Great Red Spot revisited. Planetary and Space Science, 2000, 48, 331-339.	1.7	15
61	Dynamics and Interaction between a Large-Scale Vortex and the Great Red Spot in Jupiter. Icarus, 1998, 136, 14-26.	2.5	16
62	New Observations and Studies of Saturn's Long-Lived North Polar Spot. Icarus, 1997, 128, 322-334.	2.5	26
63	Large-Scale Storms in Saturn's Atmosphere During 1994. Science, 1996, 271, 631-634.	12.6	44
64	Ground-Based Observations of Saturn's North Polar Spot and Hexagon. Science, 1993, 260, 329-332.	12.6	39