

Santiago Perez-Hoyos

List of Publications by Year in descending order

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86
papers

2,420
citations

172457

29
h-index

243625

44
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88
all docs

88
docs citations

88
times ranked

1659
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Variable winds on Venus mapped in three dimensions. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	119
3	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
4	Depth of a strong jovian jet from a planetary-scale disturbance driven by storms. <i>Nature</i> , 2008, 451, 437-440.	27.8	82
5	Saturn's cloud structure and temporal evolution from ten years of Hubble Space Telescope images (1994-2003). <i>Icarus</i> , 2005, 176, 155-174.	2.5	78
6	A strong decrease in Saturn's equatorial jet at cloud level. <i>Nature</i> , 2003, 423, 623-625.	27.8	74
7	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
8	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
9	The jovian anticyclone BAll. Circulation and interaction with the zonal jets. <i>Icarus</i> , 2009, 203, 499-515.	2.5	54
10	Less absorbed solar energy and more internal heat for Jupiter. <i>Nature Communications</i> , 2018, 9, 3709.	12.8	50
11	THE IMPACT OF A LARGE OBJECT ON JUPITER IN 2009 JULY. <i>Astrophysical Journal Letters</i> , 2010, 715, L155-L159.	8.3	47
12	Instrumental methods for professional and amateur collaborations in planetary astronomy. <i>Experimental Astronomy</i> , 2014, 38, 91-191.	3.7	47
13	A strong vortex in Saturn's South Pole. <i>Icarus</i> , 2006, 184, 524-531.	2.5	46
14	Saturn's cloud morphology and zonal winds before the Cassini encounter. <i>Icarus</i> , 2004, 170, 519-523.	2.5	45
15	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
16	Venus Upper Clouds and the UV Absorber From MESSENGER/MASCS Observations. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 145-162.	3.6	41
17	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
18	On the vertical wind shear of Saturn's Equatorial Jet at cloud level. <i>Icarus</i> , 2006, 180, 161-175.	2.5	37

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19	The three-dimensional structure of Saturn's equatorial jet at cloud level. <i>Icarus</i> , 2007, 187, 510-519.	2.5	37
20	The Planetary Laboratory for Image Analysis (PLIA). <i>Advances in Space Research</i> , 2010, 46, 1120-1138.	2.6	37
21	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
22	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
23	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
24	The 2009-2010 fade of Jupiter's South Equatorial Belt: Vertical cloud structure models and zonal winds from visible imaging. <i>Icarus</i> , 2012, 217, 256-271.	2.5	33
25	Solar flux in Saturn's atmosphere: Penetration and heating rates in the aerosol and cloud layers. <i>Icarus</i> , 2006, 180, 368-378.	2.5	32
26	A multi-wavelength study of the 2009 impact on Jupiter: Comparison of high resolution images from Gemini, Keck and HST. <i>Icarus</i> , 2010, 210, 722-741.	2.5	32
27	Jupiter's polar clouds and waves from Cassini and HST images: 1993-2006. <i>Icarus</i> , 2008, 194, 173-185.	2.5	31
28	The EChO science case. <i>Experimental Astronomy</i> , 2015, 40, 329-391.	3.7	31
29	Long-term Variations of Venus's 365 nm Albedo Observed by Venus Express, Akatsuki, MESSENGER, and the Hubble Space Telescope. <i>Astronomical Journal</i> , 2019, 158, 126.	4.7	30
30	The jovian anticyclone BAIII. Aerosol properties and color change. <i>Icarus</i> , 2009, 203, 516-530.	2.5	29
31	The atmospheric influence, size and possible asteroidal nature of the July 2009 Jupiter impactor. <i>Icarus</i> , 2011, 211, 587-602.	2.5	29
32	Impact flux on Jupiter: From superbolides to large-scale collisions. <i>Astronomy and Astrophysics</i> , 2013, 560, A55.	5.1	29
33	FIRST EARTH-BASED DETECTION OF A SUPERBOLIDE ON JUPITER. <i>Astrophysical Journal Letters</i> , 2010, 721, L129-L133.	8.3	28
34	Dust particle size and optical depth on Mars retrieved by the MSL navigation cameras. <i>Icarus</i> , 2019, 319, 43-57.	2.5	28
35	Glory revealed in disk-integrated photometry of Venus. <i>Astronomy and Astrophysics</i> , 2014, 566, L1.	5.1	28
36	The jovian anticyclone BA1. Motions and interaction with the GRS from observations and non-linear simulations. <i>Icarus</i> , 2009, 203, 486-498.	2.5	26

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37	Atmospheric dynamics of Saturn's 2010 giant storm. <i>Nature Geoscience</i> , 2013, 6, 525-529.	12.9	26
38	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
39	An extremely high-altitude plume seen at Mars' morning terminator. <i>Nature</i> , 2015, 518, 525-528.	27.8	24
40	<i>PlanetCam UPV/EHU</i> : A Two-channel Lucky Imaging Camera for Solar System Studies in the Spectral Range 0.38–1.7 μm . <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 035002.	3.1	23
41	No Hexagonal Wave around Saturn's Southern Pole. <i>Icarus</i> , 2002, 160, 216-219.	2.5	21
42	Brightness power spectral distribution and waves in Jupiter's upper cloud and hazes. <i>Icarus</i> , 2009, 202, 181-196.	2.5	21
43	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
44	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
45	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
46	A strong high altitude narrow jet detected at Saturn's equator. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	20
47	Saturn's tropospheric particles phase function and spatial distribution from Cassini ISS 2010–11 observations. <i>Icarus</i> , 2016, 277, 1-18.	2.5	19
48	Haze and cloud structure of Saturn's North Pole and Hexagon Wave from Cassini/ISS imaging. <i>Icarus</i> , 2018, 305, 284-300.	2.5	19
49	Vertical shears in Saturn's eastward jets at cloud level. <i>Icarus</i> , 2009, 201, 818-820.	2.5	18
50	Hazy Blue Worlds: A Holistic Aerosol Model for Uranus and Neptune, Including Dark Spots. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	18
51	A long-lived cyclone in Saturn's atmosphere: Observations and models. <i>Icarus</i> , 2010, 209, 665-681.	2.5	17
52	Emitted power of Jupiter based on Cassini CIRS and VIMS observations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	17
53	Cloud structure of Saturn's 2010 storm from ground-based visual imaging. <i>Icarus</i> , 2012, 219, 142-149.	2.5	17
54	Color and aerosol changes in Jupiter after a North Temperate Belt disturbance. <i>Icarus</i> , 2020, 352, 114031.	2.5	17

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55	Dust particle size, shape and optical depth during the 2018/MY34 martian global dust storm retrieved by MSL Curiosity rover Navigation Cameras. <i>Icarus</i> , 2021, 354, 114021.	2.5	17
56	The Aula Espazio 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
57	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
58	Short-term changes in the belt/zone structure of Saturn's Southern Hemisphere (1996–2004). <i>Astronomy and Astrophysics</i> , 2006, 460, 641-645.	5.1	15
59	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
60	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
61	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
62	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
63	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
64	A complex storm system in Saturn's north polar atmosphere in 2018. <i>Nature Astronomy</i> , 2020, 4, 180-187.	10.1	13
65	Temporal and spatial variations of the absolute reflectivity of Jupiter and Saturn from 0.38 to 1.7 μm with PlanetCam-UPV/EHU. <i>Astronomy and Astrophysics</i> , 2017, 607, A72.	5.1	13
66	Saturn's giant storm and global radiant energy. <i>Geophysical Research Letters</i> , 2015, 42, 2144-2148.	4.0	12
67	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
68	Characterisation of Martian dust aerosol phase function from sky radiance measurements by MSL engineering cameras. <i>Icarus</i> , 2019, 330, 16-29.	2.5	11
69	Probing clouds in planets with a simple radiative transfer model: the Jupiter case. <i>European Journal of Physics</i> , 2012, 33, 1611-1624.	0.6	10
70	Evolution of the cloud field and wind structure of Jupiter's highest speed jet during a huge disturbance. <i>Astronomy and Astrophysics</i> , 2009, 507, 513-522.	5.1	9
71	Spatial distribution of jovian clouds, hazes and colors from Cassini ISS multi-spectral images. <i>Icarus</i> , 2016, 267, 34-50.	2.5	9
72	The Great Saturn Storm of 2010–2011. , 2018, , 377-416.		9

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73	Latitudinal variation of methane mole fraction above clouds in Neptune's atmosphere from VLT/MUSE-NFM: Limb-darkening reanalysis. <i>Icarus</i> , 2021, 357, 114277.	2.5	9
74	Vertical cloud structure of the 2009 Jupiter impact based on HST/WFC3 observations. <i>Icarus</i> , 2012, 221, 1061-1078.	2.5	8
75	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
76	Hazes and clouds in a singular triple vortex in Saturn's atmosphere from HST/WFC3 multispectral imaging. <i>Icarus</i> , 2019, 333, 22-36.	2.5	7
77	Spectral comparison and stability of red regions on Jupiter. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 483-494.	3.6	6
78	Multilayer hazes over Saturn's hexagon from Cassini ISS limb images. <i>Nature Communications</i> , 2020, 11, 2281.	12.8	6
79	Convective storms in closed cyclones in Jupiter's South Temperate Belt: (I) observations. <i>Icarus</i> , 2022, 380, 114994.	2.5	5
80	PlanetCam UPV/EHU: a simultaneous visible and near infrared lucky-imaging camera to study solar system objects. , 2012, , .		4
81	Jupiter's third largest and longest-lived oval: Color changes and dynamics. <i>Icarus</i> , 2021, 361, 114394.	2.5	4
82	Assessing Multi-Stream Radiative Transfer Schemes for the Calculation of Aerosol Radiative Forcing in the Martian Atmosphere. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006889.	3.6	4
83	Vertical Distribution of Aerosols and Hazes Over Jupiter's Great Red Spot and Its Surroundings in 2016 From HST/WFC3 Imaging. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006996.	3.6	4
84	Structure, temporal variations and radiative flux in Saturn's clouds. <i>Planetary and Space Science</i> , 2006, 54, 830-831.	1.7	0
85	Venus Spectrophotometry During the MESSENGER Mission Fly-By. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2010, , 455-455.	0.3	0
86	Two Years of Saturn's Exploration by the Cassini Spacecraft: Atmospheric Studies. , 2007, , 303-310.		0