

Agustin Maria Sanchez Lavega

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,641
citations

236612

25
h-index

315357

38
g-index

65
all docs

65
docs citations

65
times ranked

1010
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Saturn's Zonal Winds at Cloud Level. <i>Icarus</i> , 2000, 147, 405-420. | 1.1 | 132 |
| 2 | Deep winds beneath Saturn's upper clouds from a seasonal long-lived planetary-scale storm. <i>Nature</i> , 2011, 475, 71-74. | 13.7 | 98 |
| 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. | 1.1 | 88 |
| 4 | The Merger of Two Giant Anticyclones in the Atmosphere of Jupiter. <i>Icarus</i> , 2001, 149, 491-495. | 1.1 | 69 |
| 5 | The jovian anticyclone BAll. Circulation and interaction with the zonal jets. <i>Icarus</i> , 2009, 203, 499-515. | 1.1 | 54 |
| 6 | The Onset and Growth of the 2018 Martian Global Dust Storm. <i>Geophysical Research Letters</i> , 2019, 46, 6101-6108. | 1.5 | 47 |
| 7 | The dynamic atmospheric and aeolian environment of Jezero crater, Mars. <i>Science Advances</i> , 2022, 8, . | 4.7 | 47 |
| 8 | A strong vortex in Saturn's South Pole. <i>Icarus</i> , 2006, 184, 524-531. | 1.1 | 46 |
| 9 | Large-Scale Storms in Saturn's Atmosphere During 1994. <i>Science</i> , 1996, 271, 631-634. | 6.0 | 44 |
| 10 | 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. | 1.5 | 43 |
| 11 | Venus Upper Clouds and the UV Absorber From MESSENGER/MASCS Observations. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 145-162. | 1.5 | 41 |
| 12 | Dynamics of Saturn's polar regions. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 155-176. | 1.5 | 40 |
| 13 | Ground-Based Observations of Saturn's North Polar Spot and Hexagon. <i>Science</i> , 1993, 260, 329-332. | 6.0 | 39 |
| 14 | A model for large-scale convective storms in Jupiter. <i>Journal of Geophysical Research</i> , 2002, 107, 5-1. | 3.3 | 39 |
| 15 | The Planetary Laboratory for Image Analysis (PLIA). <i>Advances in Space Research</i> , 2010, 46, 1120-1138. | 1.2 | 37 |
| 16 | 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. | 1.1 | 33 |
| 17 | Clouds and Aerosols in Saturn's Atmosphere. , 2009, , 161-179. | | 33 |
| 18 | How Long Is the Day on Saturn?. <i>Science</i> , 2005, 307, 1223-1224. | 6.0 | 32 |

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|----|--|------|-----------|
| 19 | Solar flux in Saturn's atmosphere: Penetration and heating rates in the aerosol and cloud layers. <i>Icarus</i> , 2006, 180, 368-378. | 1.1 | 32 |
| 20 | A chaotic long-lived vortex at the southern pole of Venus. <i>Nature Geoscience</i> , 2013, 6, 254-257. | 5.4 | 32 |
| 21 | Jupiter's cyclones and anticyclones vorticity from Voyager and Galileo images. <i>Icarus</i> , 2005, 174, 178-191. | 1.1 | 30 |
| 22 | The jovian anticyclone BAIII. Aerosol properties and color change. <i>Icarus</i> , 2009, 203, 516-530. | 1.1 | 29 |
| 23 | Dust particle size and optical depth on Mars retrieved by the MSL navigation cameras. <i>Icarus</i> , 2019, 319, 43-57. | 1.1 | 28 |
| 24 | New Observations and Studies of Saturn's Long-Lived North Polar Spot. <i>Icarus</i> , 1997, 128, 322-334. | 1.1 | 26 |
| 25 | The jovian anticyclone BAI. Motions and interaction with the GRS from observations and non-linear simulations. <i>Icarus</i> , 2009, 203, 486-498. | 1.1 | 26 |
| 26 | 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. | 0.9 | 25 |
| 27 | Analysis of Neptune's 2017 bright equatorial storm. <i>Icarus</i> , 2019, 321, 324-345. | 1.1 | 25 |
| 28 | An extremely high-altitude plume seen at Mars's morning terminator. <i>Nature</i> , 2015, 518, 525-528. | 18.7 | 24 |
| 29 | <i>PlanetCam UPV/EHU</i> : A Two-channel Lucky Imaging Camera for Solar System Studies in the Spectral Range 0.38-1.7 μ m. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 035002. | 1.0 | 23 |
| 30 | Cloud morphology and dynamics in Saturn's northern polar region. <i>Icarus</i> , 2018, 299, 117-132. | 1.1 | 23 |
| 31 | 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. | 1.1 | 22 |
| 32 | No Hexagonal Wave around Saturn's Southern Pole. <i>Icarus</i> , 2002, 160, 216-219. | 1.1 | 21 |
| 33 | An enduring rapidly moving storm as a guide to Saturn's Equatorial jet's complex structure. <i>Nature Communications</i> , 2016, 7, 13262. | 5.8 | 21 |
| 34 | Haze and cloud structure of Saturn's North Pole and Hexagon Wave from Cassini/ISS imaging. <i>Icarus</i> , 2018, 305, 284-300. | 1.1 | 19 |
| 35 | The Rich Dynamics of Jupiter's Great Red Spot from JunoCam: Juno Images. <i>Astronomical Journal</i> , 2018, 156, 162. | 1.9 | 19 |
| 36 | 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. | 1.1 | 17 |

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|----|---|-----|-----------|
| 37 | Dynamics and Interaction between a Large-Scale Vortex and the Great Red Spot in Jupiter. <i>Icarus</i> , 1998, 136, 14-26. | 1.1 | 16 |
| 38 | The 90-day oscillations of Jupiter's Great Red Spot revisited. <i>Planetary and Space Science</i> , 2000, 48, 331-339. | 0.9 | 15 |
| 39 | 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. | 1.5 | 15 |
| 40 | A planetary-scale disturbance in a long living three vortex coupled system in Saturn's atmosphere. <i>Icarus</i> , 2018, 302, 499-513. | 1.1 | 14 |
| 41 | Gas Giants. , 2019, , 72-103. | | 14 |
| 42 | 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. | 1.1 | 13 |
| 43 | A complex storm system in Saturn's north polar atmosphere in 2018. <i>Nature Astronomy</i> , 2020, 4, 180-187. | 4.2 | 13 |
| 44 | 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. | 2.1 | 13 |
| 45 | Jupiter's Great Red Spot: Strong Interactions With Incoming Anticyclones in 2019. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006686. | 1.5 | 12 |
| 46 | Saturn's Polar Atmosphere. , 2018, , 337-376. | | 11 |
| 47 | Characterisation of Martian dust aerosol phase function from sky radiance measurements by MSL engineering cameras. <i>Icarus</i> , 2019, 330, 16-29. | 1.1 | 11 |
| 48 | Shallow water simulations of Saturn's giant storms at different latitudes. <i>Icarus</i> , 2017, 286, 241-260. | 1.1 | 10 |
| 49 | Morphology and Dynamics of Venus's Middle Clouds With Akatsuki/IR1. <i>Geophysical Research Letters</i> , 2019, 46, 2399-2407. | 1.5 | 10 |
| 50 | Spatial distribution of jovian clouds, hazes and colors from Cassini ISS multi-spectral images. <i>Icarus</i> , 2016, 267, 34-50. | 1.1 | 9 |
| 51 | Vertical cloud structure of the 2009 Jupiter impact based on HST/WFC3 observations. <i>Icarus</i> , 2012, 221, 1061-1078. | 1.1 | 8 |
| 52 | 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. | 2.1 | 8 |
| 53 | Hazes and clouds in a singular triple vortex in Saturn's atmosphere from HST/WFC3 multispectral imaging. <i>Icarus</i> , 2019, 333, 22-36. | 1.1 | 7 |
| 54 | Potential Vorticity of Saturn's Polar Regions: Seasonality and Instabilities. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 186-201. | 1.5 | 6 |

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|----|---|-----|-----------|
| 55 | Multilayer hazes over Saturn's hexagon from Cassini ISS limb images. Nature Communications, 2020, 11, 2281. | 5.8 | 6 |
| 56 | Convective storms in closed cyclones in Jupiter's South Temperate Belt: (I) observations. Icarus, 2022, 380, 114994. | 1.1 | 5 |
| 57 | Midsummer Atmospheric Changes in Saturn's Northern Hemisphere from the Hubble OPAL Program. Planetary Science Journal, 2021, 2, 47. | 1.5 | 4 |
| 58 | Jupiter's third largest and longest-lived oval: Color changes and dynamics. Icarus, 2021, 361, 114394. | 1.1 | 4 |
| 59 | Assessing Multi-Stream Radiative Transfer Schemes for the Calculation of Aerosol Radiative Forcing in the Martian Atmosphere. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006889. | 1.5 | 4 |
| 60 | 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. | 1.5 | 4 |
| 61 | Convective storms in closed cyclones in Jupiter: (II) numerical modeling. Icarus, 2022, 386, 115169. | 1.1 | 2 |
| 62 | Interaction of Saturn's Hexagon With Convective Storms. Geophysical Research Letters, 2021, 48, e2021GL092461. | 1.5 | 1 |
| 63 | Energy Exchanges in Saturn's Polar Regions From Cassini Observations: Eddy-Zonal Flow Interactions. Journal of Geophysical Research E: Planets, 2022, 127, . | 1.5 | 1 |
| 64 | From storms to cyclones at Jupiter's poles. Nature Physics, 2022, 18, 226-227. | 6.5 | 0 |