

James A Sinclair

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

578
citations

516710

16
h-index

610901

24
g-index

40
all docs

40
docs citations

40
times ranked

556
citing authors

#	ARTICLE	IF	CITATIONS
1	Mid-infrared mapping of Jupiter's temperatures, aerosol opacity and chemical distributions with IRTF/TEXES. <i>Icarus</i> , 2016, 278, 128-161.	2.5	89
2	The independent pulsations of Jupiter's northern and southern X-ray auroras. <i>Nature Astronomy</i> , 2017, 1, 758-764.	10.1	49
3	Measurement of nitrogen on Jupiter and Saturn from the N_2 Ly α emission. <i>Icarus</i> , 2019, 378, 114-124.	2.5	44
4	Seasonal variations of temperature, acetylene and ethane in Saturn's atmosphere from 2005 to 2010, as observed by Cassini-CIRS. <i>Icarus</i> , 2013, 225, 257-271.	2.5	36
5	A hexagon in Saturn's northern stratosphere surrounding the emerging summertime polar vortex. <i>Nature Communications</i> , 2018, 9, 3564.	12.8	36
6	Long-term tracking of circumpolar cyclones on Jupiter from polar observations with JunoCam. <i>Icarus</i> , 2020, 335, 113405.	2.5	29
7	First ALMA Millimeter-wavelength Maps of Jupiter, with a Multiwavelength Study of Convection. <i>Astronomical Journal</i> , 2019, 158, 139.	4.7	27
8	Photochemistry, mixing and transport in Jupiter's stratosphere constrained by Cassini. <i>Icarus</i> , 2018, 307, 106-123.	2.5	25
9	Jupiter's auroral-related stratospheric heating and chemistry I: Analysis of Voyager-IRIS and Cassini-CIRS spectra. <i>Icarus</i> , 2017, 292, 182-207.	2.5	22
10	Jupiter's North Equatorial Belt expansion and thermal wave activity ahead of Juno's arrival. <i>Geophysical Research Letters</i> , 2017, 44, 7140-7148.	4.0	21
11	Jupiter's auroral-related stratospheric heating and chemistry II: Analysis of IRTF-TEXES spectra measured in December 2014. <i>Icarus</i> , 2018, 300, 305-326.	2.5	21
12	From Voyager-IRIS to Cassini-CIRS: Interannual variability in Saturn's stratosphere?. <i>Icarus</i> , 2014, 233, 281-292.	2.5	20
13	Assessing the long-term variability of acetylene and ethane in the stratosphere of Jupiter. <i>Icarus</i> , 2018, 305, 301-313.	2.5	20
14	Rotational Light Curves of Jupiter from Ultraviolet to Mid-infrared and Implications for Brown Dwarfs and Exoplanets. <i>Astronomical Journal</i> , 2019, 157, 89.	4.7	19
15	Jupiter's auroral-related stratospheric heating and chemistry III: Abundances of C ₂ H ₄ , CH ₃ C ₂ H, C ₄ H ₂ and C ₆ H ₆ from Voyager-IRIS and Cassini-CIRS. <i>Icarus</i> , 2019, 328, 176-193.	2.5	18
16	A brightening of Jupiter's auroral 7.8- μ m CH ₄ emission during a solar-wind compression. <i>Nature Astronomy</i> , 2019, 3, 607-613.	10.1	17
17	First direct measurement of auroral and equatorial jets in the stratosphere of Jupiter. <i>Astronomy and Astrophysics</i> , 2021, 647, L8.	5.1	16
18	Independent evolution of stratospheric temperatures in Jupiter's northern and southern auroral regions from 2014 to 2016. <i>Geophysical Research Letters</i> , 2017, 44, 5345-5354.	4.0	12

#	ARTICLE	IF	CITATIONS
19	Ammonia in Jupiter's Troposphere From High-Resolution 5 μ m Spectroscopy. Geophysical Research Letters, 2017, 44, 10,838.	4.0	12
20	Spatial Variations in the Altitude of the CH ₄ Homopause at Jupiter's Mid-to-high Latitudes, as Constrained from IRTF-TEXES Spectra. Planetary Science Journal, 2020, 1, 85.	3.6	9
21	Subseasonal Variation in Neptune's Mid-infrared Emission. Planetary Science Journal, 2022, 3, 78.	3.6	9
22	A Survey of Small-Scale Waves and Wave-Like Phenomena in Jupiter's Atmosphere Detected by JunoCam. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006369.	3.6	7
23	Vertical Structure and Color of Jovian Latitudinal Cloud Bands during the Juno Era. Planetary Science Journal, 2021, 2, 16.	3.6	7
24	Characterizing Temperature and Aerosol Variability During Jupiter's 2006-2007 Equatorial Zone Disturbance. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006413.	3.6	4
25	Spatial structure in Neptune's 7.90- μ m stratospheric CH ₄ emission, as measured by VLT-VISIR. Icarus, 2020, 345, 113748.	2.5	4
26	Wave Activity in Jupiter's North Equatorial Belt From Near-Infrared Reflectivity Observations. Geophysical Research Letters, 2019, 46, 1232-1241.	4.0	2
27	Deducing Jupiter's Stratospheric Circulation From Its Composition. , 2018, , .		0