C J Hansen

List of Publications by Year in descending order

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Version: 2024-02-01

64 papers	5,081 citations	172386 29 h-index	133188 59 g-index
66 all docs	66 docs citations	66 times ranked	3244 citing authors

#	Article	IF	Citations
1	Hypotheses for Triton's plumes: New analyses and future remote sensing tests. Icarus, 2022, 375, 114835.	1.1	6
2	Planet Four: Derived South Polar Martian Winds Interpreted Using Mesoscale Modeling. Planetary Science Journal, 2022, 3, 31.	1.5	2
3	Modeling the complete set of Cassiniâ€™s UVIS occultation observations of Enceladusâ€™ plume. Icarus, 2022, 383, 114918.	1.1	1
4	Convective storms in closed cyclones in Jupiter's South Temperate Belt: (I) observations. Icarus, 2022, 380, 114994.	1.1	5
5	Unlocking the Climate Record Stored within Marsâ€™ Polar Layered Deposits. , 2021, 53, .		0
6	Mission Roles: Status, Issues, and Recommendations for the Planetary Science and Astrobiology Decadal Committee Consideration. , 2021, 53, .		0
7	On the clouds and ammonia in Jupiterâ€™s upper troposphere from Juno JIRAM reflectivity observations. Monthly Notices of the Royal Astronomical Society, 2021, 503, 4892-4907.	1.6	5
8	Triton: Fascinating Moon, Likely Ocean World, Compelling Destination!. , 2021, 53, .		1
9	Solar-System-Wide Significance of Mars Polar Science. , 2021, 53, .		2
10	Jupiterâ€™s Great Red Spot: Strong Interactions With Incoming Anticyclones in 2019. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006686.	1.5	12
11	Modern Mars' geomorphological activity, driven by wind, frost, and gravity. Geomorphology, 2021, 380, 107627.	1.1	40
12	Triton: Fascinating Moon, Likely Ocean World, Compelling Destination!. Planetary Science Journal, 2021, 2, 137.	1.5	15
13	Active Mars: A Dynamic World. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006876.	1.5	17
14	Triton: Topography and Geology of a Probable Ocean World with Comparison to Pluto and Charon. Remote Sensing, 2021, 13, 3476.	1.8	7
15	Irregular polygonal ridge networks in ancient Noachian terrain on Mars. Icarus, 2021, 374, 114833.	1.1	2
16	How martian araneiforms get their shapes: morphological analysis and diffusion-limited aggregation model for polar surface erosion. Icarus, 2020, 342, 113217.	1.1	8
17	IAC-19-F4.1.8 The Family Portrait of the solar system: The last set of images taken by Voyager 1 and the fascinating story of how they came to be. Acta Astronautica, 2020, 177, 425-437.	1.7	0
18	Mapping Io's Surface Composition With Juno/JIRAM. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006522.	1.5	8

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19	Infrared Observations of Ganymede From the Jovian InfraRed Auroral Mapper on Juno. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006508.	1.5	16
20	A Survey of Smallâ€Scale Waves and Waveâ€Like Phenomena in Jupiter's Atmosphere Detected by JunoCam. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006369.	1.5	7
21	The Holy Grail: A road map for unlocking the climate record stored within Marsâ€™ polar layered deposits. Planetary and Space Science, 2020, 184, 104841.	0.9	30
22	Dune-slope activity due to frost and wind throughout the north polar erg, Mars. Geological Society Special Publication, 2019, 467, 95-114.	0.8	18
23	Planet Four: Probing springtime winds on Mars by mapping the southern polar CO2 jet deposits. Icarus, 2019, 319, 558-598.	1.1	18
24	The formation of gullies on Mars today. Geological Society Special Publication, 2019, 467, 67-94.	0.8	45
25	Collecting amino acids in the Enceladus plume. International Journal of Astrobiology, 2019, 18, 47-59.	0.9	24
26	Clusters of cyclones encircling Jupiterâ€™s poles. Nature, 2018, 555, 216-219.	13.7	90
27	Image Simulation and Assessment of the Colour and Spatial Capabilities of the Colour and Stereo Surface Imaging System (CaSSIS) on the ExoMars Trace Gas Orbiter. Space Science Reviews, 2018, 214, 1.	3.7	24
28	Planet Four: Terrains â€“ Discovery of araneiforms outside of the South Polar layered deposits. Icarus, 2018, 308, 148-187.	1.1	23
29	The Rich Dynamics of Jupiterâ€™s Great Red Spot from JunoCam: Juno Images. Astronomical Journal, 2018, 156, 162.	1.9	19
30	First Estimate of Wind Fields in the Jupiter Polar Regions From JIRAMâ€Juno Images. Journal of Geophysical Research E: Planets, 2018, 123, 1511-1524.	1.5	24
31	The Search for Activity on Dione and Tethys WithCassiniVIMS and UVIS. Geophysical Research Letters, 2018, 45, 5860-5866.	1.5	4
32	Junocam: Junoâ€™s Outreach Camera. Space Science Reviews, 2017, 213, 475-506.	3.7	42
33	Investigation of diurnal variability of water vapor in Enceladus' plume by the Cassini ultraviolet imaging spectrograph. Geophysical Research Letters, 2017, 44, 672-677.	1.5	20
34	The first closeâ€up images of Jupiter's polar regions: Results from the Juno mission JunoCam instrument. Geophysical Research Letters, 2017, 44, 4599-4606.	1.5	29
35	Multipleâ€wavelength sensing of Jupiter during the Juno mission's first perijove passage. Geophysical Research Letters, 2017, 44, 4607-4614.	1.5	14
36	Jupiterâ€™s interior and deep atmosphere: The initial pole-to-pole passes with the Juno spacecraft. Science, 2017, 356, 821-825.	6.0	229

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37	Infrared observations of Jovian aurora from Juno's first orbits: Main oval and satellite footprints. Geophysical Research Letters, 2017, 44, 5308-5316.	1.5	30
38	Preliminary JIRAM results from Juno polar observations: 2. Analysis of the Jupiter southern H₃⁺ emissions and comparison with the north aurora. Geophysical Research Letters, 2017, 44, 4633-4640.	1.5	20
39	Preliminary JIRAM results from Juno polar observations: 1. Methodology and analysis applied to the Jovian northern polar region. Geophysical Research Letters, 2017, 44, 4625-4632.	1.5	18
40	Characterization of the white ovals on Jupiter's southern hemisphere using the first data by the Juno/JIRAM instrument. Geophysical Research Letters, 2017, 44, 4660-4668.	1.5	15
41	A planetaryâ€scale disturbance in the most intense Jovian atmospheric jet from JunoCam and groundâ€based observations. Geophysical Research Letters, 2017, 44, 4679-4686.	1.5	35
42	Preliminary JIRAM results from Juno polar observations: 3. Evidence of diffuse methane presence in the Jupiter auroral regions. Geophysical Research Letters, 2017, 44, 4641-4648.	1.5	13
43	Enceladus Plume Structure and Time Variability: Comparison of Cassini Observations. Astrobiology, 2017, 17, 926-940.	1.5	43
44	The Colour and Stereo Surface Imaging System (CaSSIS) for the ExoMars Trace Gas Orbiter. Space Science Reviews, 2017, 212, 1897-1944.	3.7	111
45	Present-day erosion of Martian polar terrain by the seasonal CO2 jets. Icarus, 2017, 282, 93-103.	1.1	33
46	Magnetospheric Science Objectives of the Juno Mission. Space Science Reviews, 2017, 213, 219-287.	3.7	163
47	Enumeration of Mars years and seasons since the beginning of telescopic exploration. Icarus, 2015, 251, 332-338.	1.1	54
48	Planet-wide sand motion on Mars. Geology, 2012, 40, 31-34.	2.0	136
49	Polygonal cracks in the seasonal semiâ€translucent CO₂ ice layer in Martian polar areas. Journal of Geophysical Research, 2012, 117, .	3.3	29
50	Seasonal activity and morphological changes in martian gullies. Icarus, 2012, 220, 124-143.	1.1	195
51	Evolution of south seasonal cap during Martian spring: Insights from high-resolution observations by HiRISE and CRISM on Mars Reconnaissance Orbiter. Journal of Geophysical Research, 2011, 116, .	3.3	36
52	Sub-surface CO₂gas flow in Mars' polar regions: Gas transport under constant production rate conditions. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	15
53	The composition and structure of the Enceladus plume. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	136
54	Seasonal Erosion and Restoration of Marsâ€™ Northern Polar Dunes. Science, 2011, 331, 575-578.	6.0	205

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55	HiRISE observations of gas sublimation-driven activity in Marsâ€™ southern polar regions: III. Models of processes involving translucent ice. Icarus, 2010, 205, 311-320.	1.1	53
56	Water vapour jets inside the plume of gas leaving Enceladus. Nature, 2008, 456, 477-479.	13.7	115
57	Seasonally active frostâ€dust avalanches on a north polar scarp of Mars captured by HiRISE. Geophysical Research Letters, 2008, 35, .	1.5	48
58	Mars Reconnaissance Orbiter's High Resolution Imaging Science Experiment (HiRISE). Journal of Geophysical Research, 2007, 112, .	3.3	1,253
59	Enceladus' Water Vapor Plume. Science, 2006, 311, 1422-1425.	6.0	473
60	The Cassini Ultraviolet Imaging Spectrograph Investigation. Space Science Reviews, 2004, 115, 299-361.	3.7	210
61	A thermal model for the seasonal nitrogen cycle on Triton. Icarus, 1992, 99, 273-288.	1.1	72
62	Triton's Geyser-Like Plumes: Discovery and Basic Characterization. Science, 1990, 250, 410-415.	6.0	157
63	Surface and Airborne Evidence for Plumes and Winds on Triton. Science, 1990, 250, 421-424.	6.0	33
64	Voyager 2 at Neptune: Imaging Science Results. Science, 1989, 246, 1422-1449.	6.0	573