

C J Hansen

List of Publications by Year in descending order

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64
papers

5,081
citations

172457

29
h-index

133252

59
g-index

66
all docs

66
docs citations

66
times ranked

3244
citing authors

#	ARTICLE	IF	CITATIONS
1	Mars Reconnaissance Orbiter's High Resolution Imaging Science Experiment (HiRISE). <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	1,253
2	Voyager 2 at Neptune: Imaging Science Results. <i>Science</i> , 1989, 246, 1422-1449.	12.6	573
3	Enceladus' Water Vapor Plume. <i>Science</i> , 2006, 311, 1422-1425.	12.6	473
4	Jupiter's interior and deep atmosphere: The initial pole-to-pole passes with the Juno spacecraft. <i>Science</i> , 2017, 356, 821-825.	12.6	229
5	The Cassini Ultraviolet Imaging Spectrograph Investigation. <i>Space Science Reviews</i> , 2004, 115, 299-361.	8.1	210
6	Seasonal Erosion and Restoration of Mars's Northern Polar Dunes. <i>Science</i> , 2011, 331, 575-578.	12.6	205
7	Seasonal activity and morphological changes in martian gullies. <i>Icarus</i> , 2012, 220, 124-143.	2.5	195
8	Magnetospheric Science Objectives of the Juno Mission. <i>Space Science Reviews</i> , 2017, 213, 219-287.	8.1	163
9	Triton's Geyser-Like Plumes: Discovery and Basic Characterization. <i>Science</i> , 1990, 250, 410-415.	12.6	157
10	The composition and structure of the Enceladus plume. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	136
11	Planet-wide sand motion on Mars. <i>Geology</i> , 2012, 40, 31-34.	4.4	136
12	Water vapour jets inside the plume of gas leaving Enceladus. <i>Nature</i> , 2008, 456, 477-479.	27.8	115
13	The Colour and Stereo Surface Imaging System (CaSSIS) for the ExoMars Trace Gas Orbiter. <i>Space Science Reviews</i> , 2017, 212, 1897-1944.	8.1	111
14	Clusters of cyclones encircling Jupiter's poles. <i>Nature</i> , 2018, 555, 216-219.	27.8	90
15	A thermal model for the seasonal nitrogen cycle on Triton. <i>Icarus</i> , 1992, 99, 273-288.	2.5	72
16	Enumeration of Mars years and seasons since the beginning of telescopic exploration. <i>Icarus</i> , 2015, 251, 332-338.	2.5	54
17	HiRISE observations of gas sublimation-driven activity in Mars's southern polar regions: III. Models of processes involving translucent ice. <i>Icarus</i> , 2010, 205, 311-320.	2.5	53
18	Seasonally active frost-dust avalanches on a north polar scarp of Mars captured by HiRISE. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	48

#	ARTICLE	IF	CITATIONS
19	The formation of gullies on Mars today. Geological Society Special Publication, 2019, 467, 67-94.	1.3	45
20	Enceladus Plume Structure and Time Variability: Comparison of Cassini Observations. Astrobiology, 2017, 17, 926-940.	3.0	43
21	Junocam: Juno's Outreach Camera. Space Science Reviews, 2017, 213, 475-506.	8.1	42
22	Modern Mars' geomorphological activity, driven by wind, frost, and gravity. Geomorphology, 2021, 380, 107627.	2.6	40
23	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
24	A planetary-scale disturbance in the most intense Jovian atmospheric jet from JunoCam and ground-based observations. Geophysical Research Letters, 2017, 44, 4679-4686.	4.0	35
25	Surface and Airborne Evidence for Plumes and Winds on Triton. Science, 1990, 250, 421-424.	12.6	33
26	Present-day erosion of Martian polar terrain by the seasonal CO ₂ jets. Icarus, 2017, 282, 93-103.	2.5	33
27	Infrared observations of Jovian aurora from Juno's first orbits: Main oval and satellite footprints. Geophysical Research Letters, 2017, 44, 5308-5316.	4.0	30
28	The Holy Grail: A road map for unlocking the climate record stored within Mars' polar layered deposits. Planetary and Space Science, 2020, 184, 104841.	1.7	30
29	Polygonal cracks in the seasonal semi-transparent CO ₂ ice layer in Martian polar areas. Journal of Geophysical Research, 2012, 117, .	3.3	29
30	The first close-up images of Jupiter's polar regions: Results from the Juno mission JunoCam instrument. Geophysical Research Letters, 2017, 44, 4599-4606.	4.0	29
31	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.	8.1	24
32	First Estimate of Wind Fields in the Jupiter Polar Regions From JIRAM's Juno Images. Journal of Geophysical Research E: Planets, 2018, 123, 1511-1524.	3.6	24
33	Collecting amino acids in the Enceladus plume. International Journal of Astrobiology, 2019, 18, 47-59.	1.6	24
34	Planet Four: Terrains "Discovery of araneiforms outside of the South Polar layered deposits. Icarus, 2018, 308, 148-187.	2.5	23
35	Investigation of diurnal variability of water vapor in Enceladus' plume by the Cassini ultraviolet imaging spectrograph. Geophysical Research Letters, 2017, 44, 672-677.	4.0	20
36	Preliminary JIRAM results from Juno polar observations: 2. Analysis of the Jupiter southern H ₃ ⁺ emissions and comparison with the north aurora. Geophysical Research Letters, 2017, 44, 4633-4640.	4.0	20

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37	The Rich Dynamics of Jupiter's Great Red Spot from JunoCam: Juno Images. <i>Astronomical Journal</i> , 2018, 156, 162.	4.7	19
38	Preliminary JIRAM results from Juno polar observations: 1. Methodology and analysis applied to the Jovian northern polar region. <i>Geophysical Research Letters</i> , 2017, 44, 4625-4632.	4.0	18
39	Dune-slope activity due to frost and wind throughout the north polar erg, Mars. <i>Geological Society Special Publication</i> , 2019, 467, 95-114.	1.3	18
40	Planet Four: Probing springtime winds on Mars by mapping the southern polar CO ₂ jet deposits. <i>Icarus</i> , 2019, 319, 558-598.	2.5	18
41	Active Mars: A Dynamic World. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006876.	3.6	17
42	Infrared Observations of Ganymede From the Jovian InfraRed Auroral Mapper on Juno. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006508.	3.6	16
43	Sub-surface CO ₂ gas flow in Mars' polar regions: Gas transport under constant production rate conditions. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	15
44	Characterization of the white ovals on Jupiter's southern hemisphere using the first data by the Juno/JIRAM instrument. <i>Geophysical Research Letters</i> , 2017, 44, 4660-4668.	4.0	15
45	Triton: Fascinating Moon, Likely Ocean World, Compelling Destination!. <i>Planetary Science Journal</i> , 2021, 2, 137.	3.6	15
46	Multiple-wavelength sensing of Jupiter during the Juno mission's first perijove passage. <i>Geophysical Research Letters</i> , 2017, 44, 4607-4614.	4.0	14
47	Preliminary JIRAM results from Juno polar observations: 3. Evidence of diffuse methane presence in the Jupiter auroral regions. <i>Geophysical Research Letters</i> , 2017, 44, 4641-4648.	4.0	13
48	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
49	How martian araneiforms get their shapes: morphological analysis and diffusion-limited aggregation model for polar surface erosion. <i>Icarus</i> , 2020, 342, 113217.	2.5	8
50	Mapping Io's Surface Composition With Juno/JIRAM. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006522.	3.6	8
51	A Survey of Small-scale Waves and Wave-like Phenomena in Jupiter's Atmosphere Detected by JunoCam. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006369.	3.6	7
52	Triton: Topography and Geology of a Probable Ocean World with Comparison to Pluto and Charon. <i>Remote Sensing</i> , 2021, 13, 3476.	4.0	7
53	Hypotheses for Triton's plumes: New analyses and future remote sensing tests. <i>Icarus</i> , 2022, 375, 114835.	2.5	6
54	On the clouds and ammonia in Jupiter's upper troposphere from Juno JIRAM reflectivity observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 4892-4907.	4.4	5

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55	Convective storms in closed cyclones in Jupiter's South Temperate Belt: (I) observations. <i>Icarus</i> , 2022, 380, 114994.	2.5	5
56	The Search for Activity on Dione and Tethys With Cassini VIMS and UVIS. <i>Geophysical Research Letters</i> , 2018, 45, 5860-5866.	4.0	4
57	Solar-System-Wide Significance of Mars Polar Science. , 2021, 53, .		2
58	Irregular polygonal ridge networks in ancient Noachian terrain on Mars. <i>Icarus</i> , 2021, 374, 114833.	2.5	2
59	Planet Four: Derived South Polar Martian Winds Interpreted Using Mesoscale Modeling. <i>Planetary Science Journal</i> , 2022, 3, 31.	3.6	2
60	Triton: Fascinating Moon, Likely Ocean World, Compelling Destination!. , 2021, 53, .		1
61	Modeling the complete set of Cassini's UVIS occultation observations of Enceladus' plume. <i>Icarus</i> , 2022, 383, 114918.	2.5	1
62	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. <i>Acta Astronautica</i> , 2020, 177, 425-437.	3.2	0
63	Unlocking the Climate Record Stored within Mars' Polar Layered Deposits. , 2021, 53, .		0
64	Mission Roles: Status, Issues, and Recommendations for the Planetary Science and Astrobiology Decadal Committee Consideration. , 2021, 53, .		0