

Albedo of the south pole on Mars determined by topographic dynamics

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Citation Report

#	ARTICLE	IF	CITATIONS
1	PLANETARY SCIENCE: The Changing Picture of Volatiles and Climate on Mars. <i>Science</i> , 2005, 310, 1439-1440.	12.6	18
2	Styles and timing of volatile-driven activity in the eastern Hellas region of Mars. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	56
3	No signature of clear CO ₂ ice from the "cryptic"™ regions in Mars' south seasonal polar cap. <i>Nature</i> , 2006, 442, 790-792.	27.8	54
4	Cold jets in the Martian polar caps. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	108
5	Observations of the south seasonal cap of Mars during recession in 2004â€“2006 by the OMEGA visible/nearâ€“infrared imaging spectrometer on board Mars Express. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	128
6	Diurnally varying structure of stationary waves encircling the summer southern pole of Mars observed by MGS TES. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	2
7	On the origin of perennial water ice at the south pole of Mars: A precessionâ€“controlled mechanism?. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	40
8	Hyperspectral imaging of convective CO ₂ ice clouds in the equatorial mesosphere of Mars. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	81
9	The martian atmosphere in the region of Hellas basin as observed by the planetary Fourier spectrometer (PFS-MEX). <i>Planetary and Space Science</i> , 2007, 55, 1346-1357.	1.7	20
10	MOC observations of four Mars year variations in the south polar residual cap of Mars. <i>Icarus</i> , 2007, 192, 318-326.	2.5	17
11	Introduction to the 4th Mars Polar Science and Exploration Conference special issue: Five top questions in Mars polar science. <i>Icarus</i> , 2008, 196, 305-317.	2.5	22
12	PFS/MEX observations of the condensing CO ₂ south polar cap of Mars. <i>Icarus</i> , 2008, 197, 386-402.	2.5	20
13	Interannual and seasonal behavior of Martian residual ice-cap albedo. <i>Planetary and Space Science</i> , 2008, 56, 194-211.	1.7	33
15	CO ₂ clouds, CAPE and convection on Mars: Observations and general circulation modeling. <i>Planetary and Space Science</i> , 2008, 56, 150-180.	1.7	53
16	Atmospheric and surface retrievals in the Mars polar regions from the Thermal Emission Spectrometer measurements. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	12
17	A snowball Earth versus a slushball Earth: Results from Neoproterozoic climate modeling sensitivity experiments. , 2008, 4, 401.		36
18	Hemispheric difference in the momentum transport by waves encircling the summer polar region of Mars observed by MGS TES. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	2
20	Martian polar processes. , 2008, , 578-598.		17

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21	Analysis of Dark Albedo Features on a Southern Polar Dune Field of Mars. <i>Astrobiology</i> , 2009, 9, 90-103.	3.0	22
22	Residual south polar cap of Mars: Stratigraphy, history, and implications of recent changes. <i>Icarus</i> , 2009, 203, 352-375.	2.5	56
23	Albedo control of seasonal South Polar cap recession on Mars. <i>Icarus</i> , 2009, 200, 374-394.	2.5	32
24	Seasonal patterns of condensation and sublimation cycles in the cryptic and non-cryptic regions of the South Pole. <i>Advances in Space Research</i> , 2009, 43, 138-142.	2.6	12
25	True Polar Wander driven by late-stage volcanism and the distribution of paleopolar deposits on Mars. <i>Earth and Planetary Science Letters</i> , 2009, 280, 254-267.	4.4	24
26	Spatial and temporal distributions of Martian north polar cold spots before, during, and after the global dust storm of 2001. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	19
27	Fitting the Viking lander surface pressure cycle with a Mars General Circulation Model. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	42
28	Sublimation of the Martian CO ₂ Seasonal South Polar Cap. <i>Planetary and Space Science</i> , 2010, 58, 1129-1138.	1.7	15
29	On the mystery of the perennial carbon dioxide cap at the south pole of Mars. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	10
30	A comparison of Martian north and south polar cold spots and the long-term effects of the 2001 global dust storm. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	15
31	Curvilinear features in the southern hemisphere observed by Mars Global Surveyor Mars Orbiter Camera. <i>Icarus</i> , 2011, 215, 242-252.	2.5	11
32	Carbon dioxide snow clouds on Mars: South polar winter observations by the Mars Climate Sounder. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	74
33	Mars atmospheric CO ₂ condensation above the north and south poles as revealed by radio occultation, climate sounder, and laser ranging observations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	26
34	Seasonal melting and the formation of sedimentary rocks on Mars, with predictions for the Gale Crater mound. <i>Icarus</i> , 2013, 223, 181-210.	2.5	95
35	Observations of the northern seasonal polar cap on Mars III: CRISM/HiRISE observations of spring sublimation. <i>Icarus</i> , 2013, 225, 911-922.	2.5	25
36	Thermal model for analysis of Mars infrared mapping. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 451-470.	3.6	108
37	Material ejection by the cold jets and temperature evolution of the south seasonal polar cap of Mars from THEMIS/CRISM observations and implications for surface properties. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 2520-2536.	3.6	14
38	The role of snowfall in forming the seasonal ice caps of Mars: Models and constraints from the Mars Climate Sounder. <i>Icarus</i> , 2014, 231, 122-130.	2.5	52

#	ARTICLE	IF	CITATIONS
39	Evolution of Mars' northern polar seasonal CO ₂ deposits: Variations in surface brightness and bulk density. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 1252-1266.	3.6	7
40	The physics of Martian weather and climate: a review. <i>Reports on Progress in Physics</i> , 2015, 78, 125901.	20.1	54
41	Stratigraphy and evolution of the buried CO ₂ deposit in the Martian south polar cap. <i>Geophysical Research Letters</i> , 2016, 43, 4172-4179.	4.0	71
42	Photogeologic mapping and the geologic history of the Hellas basin floor, Mars. <i>Icarus</i> , 2016, 264, 407-442.	2.5	36
43	Interannual and seasonal changes in the south seasonal polar cap of Mars: Observations from MY 28-31 using MARCI. <i>Icarus</i> , 2017, 292, 144-153.	2.5	25
44	Mars Clouds. , 2017, , 76-105.		24
45	The Global Circulation. , 2017, , 229-294.		31
46	The Water Cycle. , 2017, , 338-373.		24
47	The CO ₂ Cycle. , 2017, , 374-404.		5
48	A subsurface depocenter in the South Polar Layered Deposits of Mars. <i>Geophysical Research Letters</i> , 2017, 44, 8188-8195.	4.0	14
49	South polar permanent CO ₂ ice cap presentation in the Global Mars Multiscale Model. <i>Advances in Space Research</i> , 2018, 61, 1170-1180.	2.6	2
50	6th international conference on Mars polar science and exploration: Conference summary and five top questions. <i>Icarus</i> , 2018, 308, 2-14.	2.5	17
51	Modification history of the Harmakhis Vallis outflow channel, Mars, based on CTX-scale photogeologic mapping and crater count dating. <i>Icarus</i> , 2018, 299, 46-67.	2.5	5
52	The Dorsa Argentea Formation and the Noachian-Hesperian climate transition. <i>Icarus</i> , 2018, 299, 339-363.	2.5	20
54	CO ₂ -Driven Geomorphological Processes. , 2018, , 187-205.		0
55	Southern Martian winter weather associated with baroclinic topography forced Rossby waves: analysing by Global Mars Multiscale Model. <i>Astrophysics and Space Science</i> , 2019, 364, 1.	1.4	1
56	Asymmetries in Snowfall, Emissivity, and Albedo of Mars' Seasonal Polar Caps: Mars Climate Sounder Observations. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006150.	3.6	19
57	The Holy Grail: A road map for unlocking the climate record stored within Mars's polar layered deposits. <i>Planetary and Space Science</i> , 2020, 184, 104841.	1.7	30

#	ARTICLE	IF	CITATIONS
58	Modern Mars' geomorphological activity, driven by wind, frost, and gravity. <i>Geomorphology</i> , 2021, 380, 107627.	2.6	40
59	Obliquity-Driven CO ₂ Exchange Between Mars' Atmosphere, Regolith, and Polar Cap. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006759.	3.6	11
60	Comparative Climatology of Terrestrial Planets. , 2013, , .		6
61	Strong Spatial Aggregation of Martian Surface Temperature Shaped by Spatial and Seasonal Variations in Meteorological and Environmental Factors. <i>Research in Astronomy and Astrophysics</i> , 2022, 22, 015015.	1.7	2
62	Martian atmospheric water vapor abundances in MY26-30 from Mars Express PFS/LW observations. <i>Icarus</i> , 2022, 379, 114975.	2.5	3
63	Carbon Dioxide Ice Glaciers at the South Pole of Mars. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	10
64	Spatio-Temporal Level Variations of the Martian Seasonal South Polar Cap From Co-Registration of MOLA Profiles. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	4
65	The orbit schemes to monitor Martian dust storms: Benefits to China's future Mars missions. <i>Chinese Science Bulletin</i> , 2023, 68, 716-728.	0.7	3
66	A 510,000-Year Record of Mars' Climate. <i>Geophysical Research Letters</i> , 2023, 50, .	4.0	1
67	Martian Araneiforms: A Review. <i>Journal of Geophysical Research E: Planets</i> , 2023, 128, .	3.6	4
68	A comparison of CO ₂ seasonal activity in Mars' northern and southern hemispheres. <i>Icarus</i> , 2023, , 115801.	2.5	0
69	Martian Atmospheric Aerosols Composition and Distribution Retrievals During the First Martian Year of NOMAD/TGO Solar Occultation Measurements: 1. Methodology and Application to the MY 34 Global Dust Storm. <i>Journal of Geophysical Research E: Planets</i> , 2023, 128, .	3.6	3
70	FROZEN RESERVOIRS OF WATER UNDER THE SURFACE OF MARS. , 2023, , 73-78.		0