

Matt Chojnacki

List of Publications by Year in descending order

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docs citations

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times ranked

2066
citing authors

#	ARTICLE	IF	CITATIONS
1	Martian Dunes: A Crucial Record of Present and Past Mars Surface Environment and Aeolian Processes. , 2022, , 617-636.		2
2	The lithified aeolian dune field adjacent to the Apollinaris Sulci, Mars: Geological history and paleo-wind record. Icarus, 2022, 373, 114788.	2.5	5
3	Revealing Active Mars with HiRISE Digital Terrain Models. Remote Sensing, 2022, 14, 2403.	4.0	11
4	Can we accurately estimate sediment budgets on Mars?. Earth and Planetary Science Letters, 2022, 593, 117682.	4.4	1
5	Solar-System-Wide Significance of Mars Polar Science. , 2021, 53, .		2
6	Mars: Abundant Recurring Slope Lineae (RSL) Following the Planetâ€œEncircling Dust Event (PEDE) of 2018. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006575.	3.6	21
7	Modern Mars' geomorphological activity, driven by wind, frost, and gravity. Geomorphology, 2021, 380, 107627.	2.6	40
8	Active Mars: A Dynamic World. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006876.	3.6	17
9	Widespread Megaripple Activity Across the North Polar Ergs of Mars. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006970.	3.6	13
10	Scarp orientation in regions of active aeolian erosion on Mars. Icarus, 2020, 335, 113384.	2.5	7
11	Ancient Martian Aeolian Sand Dune Deposits Recorded in the Stratigraphy of Valles Marineris and Implications for Past Climates. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006510.	3.6	16
12	Megaripple Migration on Mars. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006446.	3.6	41
13	Dune-slope activity due to frost and wind throughout the north polar erg, Mars. Geological Society Special Publication, 2019, 467, 95-114.	1.3	18
14	Aeolian abrasion of rocks as a mechanism to produce methane in the Martian atmosphere. Scientific Reports, 2019, 9, 8229.	3.3	1
15	Boundary condition controls on the high-sand-flux regions of Mars. Geology, 2019, 47, 427-430.	4.4	43
16	Windâ€œDriven Erosion and Exposure Potential at Mars 2020 Rover Candidateâ€œLanding Sites. Journal of Geophysical Research E: Planets, 2018, 123, 468-488.	3.6	41
17	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
18	Duneâ€œYardang Interactions in Becquerel Crater, Mars. Journal of Geophysical Research E: Planets, 2018, 123, 353-368.	3.6	16

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19	Patterns in Mobility and Modification of Middle- and High-Latitude Southern Hemisphere Dunes on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 3205-3219.	3.6	35
20	Overcoming the Challenges Associated with Image-Based Mapping of Small Bodies in Preparation for the OSIRIS-REx Mission to (101955) Bennu. <i>Earth and Space Science</i> , 2018, 5, 929-949.	2.6	26
21	MORPHOLOGY OF ANCIENT BEDFORMS ON MARS FROM THE HIGH RESOLUTION IMAGING SCIENCE EXPERIMENT. , 2018, , .		1
22	Seasonal Slumps in Juventae Chasma, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2193-2214.	3.6	14
23	Granular flows at recurring slope lineae on Mars indicate a limited role for liquid water. <i>Nature Geoscience</i> , 2017, 10, 903-907.	12.9	96
24	The Geologic Exploration of the Bagnold Dune Field at Gale Crater by the Curiosity Rover. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2216-2222.	3.6	5
25	Aeolian dune sediment flux heterogeneity in Meridiani Planum, Mars. <i>Aeolian Research</i> , 2017, 26, 73-88.	2.7	26
26	Changes in blast zone albedo patterns around new martian impact craters. <i>Icarus</i> , 2016, 267, 86-105.	2.5	49
27	Geologic context of recurring slope lineae in Melas and Coprates Chasmata, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1204-1231.	3.6	56
28	Orbital evidence for more widespread carbonate-bearing rocks on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 652-677.	3.6	109
29	Complex geomorphologic assemblage of terrains in association with the banded terrain in Hellas basin, Mars. <i>Planetary and Space Science</i> , 2016, 121, 36-52.	1.7	7
30	AEOLIAN-DRIVEN LANDSCAPE EVOLUTION ON MARS. , 2016, , .		2
31	Sand Sheet. , 2015, , 1846-1849.		0
32	The central uplift of Ritchey crater, Mars. <i>Icarus</i> , 2015, 252, 255-270.	2.5	11
33	Spectral evidence for hydrated salts in recurring slope lineae on Mars. <i>Nature Geoscience</i> , 2015, 8, 829-832.	12.9	513
34	Late Amazonian aeolian features, gradation, wind regimes, and Sediment State in the Vicinity of the Mars Exploration Rover Opportunity, Meridiani Planum, Mars. <i>Aeolian Research</i> , 2015, 16, 75-99.	2.7	33
35	Persistent aeolian activity at Endeavour crater, Meridiani Planum, Mars; new observations from orbit and the surface. <i>Icarus</i> , 2015, 251, 275-290.	2.5	49
36	Echo Dune. , 2015, , 686-688.		0

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37	Erg. , 2015, , 708-711.		0
38	Sand Ramp. , 2015, , 1843-1846.		0
39	Climbing Dune. , 2015, , 313-317.		0
40	Falling Dune. , 2015, , 742-746.		0
41	Wall Dune. , 2015, , 2287-2290.		0
42	Falling Dune. , 2014, , 1-6.		1
43	Erg. , 2014, , 1-5.		0
44	Climbing Dune. , 2014, , 1-5.		0
45	Recurring slope lineae in equatorial regions of Mars. Nature Geoscience, 2014, 7, 53-58.	12.9	248
46	Inverse maximum gross bedform-normal transport 2: Application to a dune field in Ganges Chasma, Mars and comparison with HiRISE repeat imagery and MRAMS. Icarus, 2014, 230, 47-63.	2.5	18
47	Valles Marineris dune sediment provenance and pathways. Icarus, 2014, 232, 187-219.	2.5	38
48	Valles Marineris dune fields as compared with other martian populations: Diversity of dune compositions, morphologies, and thermophysical properties. Icarus, 2014, 230, 96-142.	2.5	45
49	Wall Dune. , 2014, , 1-5.		0
50	Sand Sheet. , 2014, , 1-4.		0
51	Sand Ramp. , 2014, , 1-4.		0
52	Summary of the Third International Planetary Dunes Workshop: Remote Sensing and Image Analysis of Planetary Dunes, Flagstaff, Arizona, USA, June 12-15, 2012. Aeolian Research, 2013, 8, 29-38.	2.7	3
53	Orbital observations of contemporary dune activity in Endeavor crater, Meridiani Planum, Mars. Journal of Geophysical Research, 2011, 116, .	3.3	90
54	Columbus crater and other possible groundwater-fed paleolakes of Terra Sirenum, Mars. Journal of Geophysical Research, 2011, 116, .	3.3	148

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55	Opportunity Mars Rover mission: Overview and selected results from Purgatory ripple to traverses to Endeavour crater. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	106
56	Evidence for episodic alluvial fan formation in far western Terra Tyrrhena, Mars. <i>Icarus</i> , 2011, 211, 222-237.	2.5	31
57	Climbing and falling dunes in Valles Marineris, Mars. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	34
58	Inverted fluvial features in the Aeolis/Zephyria Plana region, Mars: Formation mechanism and initial paleodischarge estimates. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	98
59	Geological context of water-altered minerals in Valles Marineris, Mars. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	48
60	Surficial properties of landslides and surrounding units in Ophir Chasma, Mars. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	9
61	An explosive volcanic origin identified for dark sand in Aeolis Dorsa, Mars. <i>Geology</i> , 0, , .	4.4	0