

Alfred S Mcewen

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

6,714
citations

81900

39
h-index

133252

59
g-index

65
all docs

65
docs citations

65
times ranked

3265
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	Spectral evidence for hydrated salts in recurring slope lineae on Mars. <i>Nature Geoscience</i> , 2015, 8, 829-832.	12.9	513
3	Seasonal Flows on Warm Martian Slopes. <i>Science</i> , 2011, 333, 740-743.	12.6	451
4	The rayed crater Zunil and interpretations of small impact craters on Mars. <i>Icarus</i> , 2005, 176, 351-381.	2.5	335
5	A New Analysis of Mars "Special Regions" Findings of the Second MEPAG Special Regions Science Analysis Group (SR-SAG2). <i>Astrobiology</i> , 2014, 14, 887-968.	3.0	317
6	Recurring slope lineae in equatorial regions of Mars. <i>Nature Geoscience</i> , 2014, 7, 53-58.	12.9	248
7	THE IMPORTANCE OF SECONDARY CRATERING TO AGE CONSTRAINTS ON PLANETARY SURFACES. <i>Annual Review of Earth and Planetary Sciences</i> , 2006, 34, 535-567.	11.0	228
8	Seasonal activity and morphological changes in martian gullies. <i>Icarus</i> , 2012, 220, 124-143.	2.5	195
9	Exposed subsurface ice sheets in the Martian mid-latitudes. <i>Science</i> , 2018, 359, 199-201.	12.6	174
10	The High Resolution Imaging Science Experiment (HiRISE) during MRO's Primary Science Phase (PSP). <i>Icarus</i> , 2010, 205, 2-37.	2.5	153
11	Long-term monitoring of martian gully formation and evolution with MRO/HiRISE. <i>Icarus</i> , 2015, 251, 244-263.	2.5	141
12	A new dry hypothesis for the formation of martian linear gullies. <i>Icarus</i> , 2013, 225, 526-537.	2.5	132
13	Active Volcanism on Io: Global Distribution and Variations in Activity. <i>Icarus</i> , 1999, 140, 243-264.	2.5	128
14	Recent bright gully deposits on Mars: Wet or dry flow?. <i>Geology</i> , 2008, 36, 211.	4.4	124
15	Io's Thermal Emission from the Galileo Photopolarimeter- Radiometer. <i>Science</i> , 2000, 288, 1198-1201.	12.6	123
16	Global Color Variations on Io. <i>Icarus</i> , 1999, 140, 265-282.	2.5	111
17	New and recent gully activity on Mars as seen by HiRISE. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	105
18	Seasonality of present-day Martian dune-gully activity. <i>Geology</i> , 2010, 38, 1047-1050.	4.4	104

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19	HiRISE observations of slope streaks on Mars. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	100
20	Identification of large (2–10 km) rayed craters on Mars in THEMIS thermal infrared images: Implications for possible Martian meteorite source regions. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	98
21	HiRISE observations of new impact craters exposing Martian ground ice. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 109-127.	3.6	98
22	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
23	HiRISE observations of Recurring Slope Lineae (RSL) during southern summer on Mars. <i>Icarus</i> , 2014, 231, 365-376.	2.5	90
24	Color imaging of Mars by the High Resolution Imaging Science Experiment (HiRISE). <i>Icarus</i> , 2010, 205, 38-52.	2.5	89
25	Widespread crater-related pitted materials on Mars: Further evidence for the role of target volatiles during the impact process. <i>Icarus</i> , 2012, 220, 348-368.	2.5	85
26	Aeolian bedforms, yardangs, and indurated surfaces in the Tharsis Montes as seen by the HiRISE Camera: Evidence for dust aggregates. <i>Icarus</i> , 2010, 205, 165-182.	2.5	80
27	Mars Reconnaissance Orbiter observations of light-toned layered deposits and associated fluvial landforms on the plateaus adjacent to Valles Marineris. <i>Icarus</i> , 2010, 205, 73-102.	2.5	79
28	Hydrovolcanic features on Mars: Preliminary observations from the first Mars year of HiRISE imaging. <i>Icarus</i> , 2010, 205, 211-229.	2.5	78
29	Avalanche slope angles in low-gravity environments from active Martian sand dunes. <i>Geophysical Research Letters</i> , 2013, 40, 2929-2934.	4.0	69
30	Magmatic Differentiation of Io. <i>Icarus</i> , 1997, 130, 437-448.	2.5	63
31	Mapping rays and secondary craters from the Martian crater Zunil. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	57
32	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
33	Rays and secondary craters of Tycho. <i>Icarus</i> , 2007, 186, 31-40.	2.5	53
34	Role of material properties in the cratering record of young platy-ridged lava on Mars. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	52
35	Expanded secondary craters in the Arcadia Planitia region, Mars: Evidence for tens of Myr-old shallow subsurface ice. <i>Icarus</i> , 2015, 248, 190-204.	2.5	49
36	Changes in blast zone albedo patterns around new martian impact craters. <i>Icarus</i> , 2016, 267, 86-105.	2.5	49

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37	Seasonally active frostâ€dust avalanches on a north polar scarp of Mars captured by HiRISE. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	48
38	Crater population and resurfacing of the Martian north polar layered deposits. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	48
39	The formation of gullies on Mars today. <i>Geological Society Special Publication</i> , 2019, 467, 67-94.	1.3	45
40	Modern Mars' geomorphological activity, driven by wind, frost, and gravity. <i>Geomorphology</i> , 2021, 380, 107627.	2.6	40
41	Spectral constraints on the formation mechanism of recurring slope lineae. <i>Geophysical Research Letters</i> , 2013, 40, 5621-5626.	4.0	33
42	A case study of recurring slope lineae (RSL) at Tivat crater: Implications for RSL origins. <i>Icarus</i> , 2019, 317, 621-648.	2.5	32
43	Investigating gully flow emplacement mechanisms using apex slopes. <i>Icarus</i> , 2010, 208, 132-142.	2.5	29
44	Widespread Exposures of Extensive Clean Shallow Ice in the Midlatitudes of Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006617.	3.6	29
45	Implications for the origin and evolution of Martian Recurring Slope Lineae at Hale crater from CaSSIS observations. <i>Planetary and Space Science</i> , 2020, 187, 104947.	1.7	28
46	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. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	24
47	Subsurface Cl-bearing salts as potential contributors to recurring slope lineae (RSL) on Mars. <i>Icarus</i> , 2019, 333, 464-480.	2.5	24
48	Mars: Abundant Recurring Slope Lineae (RSL) Following the Planetâ€Encircling Dust Event (PEDE) of 2018. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006575.	3.6	21
49	Slope activity in Gale crater, Mars. <i>Icarus</i> , 2015, 254, 213-218.	2.5	19
50	Active Mars: A Dynamic World. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006876.	3.6	17
51	Seasonal Slumps in Juventae Chasma, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2193-2214.	3.6	14
52	A Preliminary Regional Geomorphologic Map in Utopia Planitia of the Tianwenâ€1 Zhurong Landing Region. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094629.	4.0	14
53	PLANETARY SCIENCE: Active Volcanism on Io. <i>Science</i> , 2002, 297, 2220-2221.	12.6	13
54	Present-day mass wasting in sulfate-rich sediments in the equatorial regions of Mars. <i>Icarus</i> , 2020, 342, 113566.	2.5	11

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55	Revealing Active Mars with HiRISE Digital Terrain Models. Remote Sensing, 2022, 14, 2403.	4.0	11
56	Multiband photometry of Martian Recurring Slope Lineae (RSL) and dust-removed features at Horowitz crater, Mars from TGO/CaSSIS color observations. Planetary and Space Science, 2022, 214, 105443.	1.7	8
57	CaSSIS color and multi-angular observations of Martian slope streaks. Planetary and Space Science, 2021, 209, 105373.	1.7	6
58	Introduction to the Special Section: Geology and Geophysics of Io. Journal of Geophysical Research, 2001, 106, 32959-32961.	3.3	5
59	HiRISE focal plane for use on the Mars Reconnaissance Orbiter. , 2004, , .		5
60	Are Recurring Slope Lineae Habitable?. , 2018, , 249-274.		5
61	A new study of crater concentric ridges on the Moon. Icarus, 2016, 273, 196-204.	2.5	4