

Alfred S Mcewen

List of Publications by Year in descending order

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61
papers

6,714
citations

81900

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133252

59
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docs citations

65
times ranked

3265
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiband photometry of Martian Recurring Slope Lineae (RSL) and dust-removed features at Horowitz crater, Mars from TGO/CaSSIS color observations. <i>Planetary and Space Science</i> , 2022, 214, 105443.	1.7	8
2	Revealing Active Mars with HiRISE Digital Terrain Models. <i>Remote Sensing</i> , 2022, 14, 2403.	4.0	11
3	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
4	Mars: Abundant Recurring Slope Lineae (RSL) Following the Planetâ€œEncircling Dust Event (PEDE) of 2018. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006575.	3.6	21
5	Modern Mars' geomorphological activity, driven by wind, frost, and gravity. <i>Geomorphology</i> , 2021, 380, 107627.	2.6	40
6	Active Mars: A Dynamic World. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006876.	3.6	17
7	A Preliminary Regional Geomorphologic Map in Utopia Planitia of the Tianwenâ€œ Zhurong Landing Region. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094629.	4.0	14
8	CaSSIS color and multi-angular observations of Martian slope streaks. <i>Planetary and Space Science</i> , 2021, 209, 105373.	1.7	6
9	Present-day mass wasting in sulfate-rich sediments in the equatorial regions of Mars. <i>Icarus</i> , 2020, 342, 113566.	2.5	11
10	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
11	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
12	Subsurface Cl-bearing salts as potential contributors to recurring slope lineae (RSL) on Mars. <i>Icarus</i> , 2019, 333, 464-480.	2.5	24
13	The formation of gullies on Mars today. <i>Geological Society Special Publication</i> , 2019, 467, 67-94.	1.3	45
14	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
15	Exposed subsurface ice sheets in the Martian mid-latitudes. <i>Science</i> , 2018, 359, 199-201.	12.6	174
16	Are Recurring Slope Lineae Habitable?. , 2018, , 249-274.		5
17	Seasonal Slumps in Juventae Chasma, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2193-2214.	3.6	14
18	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

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19	Changes in blast zone albedo patterns around new martian impact craters. <i>Icarus</i> , 2016, 267, 86-105.	2.5	49
20	A new study of crater concentric ridges on the Moon. <i>Icarus</i> , 2016, 273, 196-204.	2.5	4
21	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
22	Slope activity in Gale crater, Mars. <i>Icarus</i> , 2015, 254, 213-218.	2.5	19
23	Spectral evidence for hydrated salts in recurring slope lineae on Mars. <i>Nature Geoscience</i> , 2015, 8, 829-832.	12.9	513
24	Long-term monitoring of martian gully formation and evolution with MRO/HIRISE. <i>Icarus</i> , 2015, 251, 244-263.	2.5	141
25	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
26	Recurring slope lineae in equatorial regions of Mars. <i>Nature Geoscience</i> , 2014, 7, 53-58.	12.9	248
27	HiRISE observations of Recurring Slope Lineae (RSL) during southern summer on Mars. <i>Icarus</i> , 2014, 231, 365-376.	2.5	90
28	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
29	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
30	A new dry hypothesis for the formation of martian linear gullies. <i>Icarus</i> , 2013, 225, 526-537.	2.5	132
31	Avalanche slope angles in low-gravity environments from active Martian sand dunes. <i>Geophysical Research Letters</i> , 2013, 40, 2929-2934.	4.0	69
32	Spectral constraints on the formation mechanism of recurring slope lineae. <i>Geophysical Research Letters</i> , 2013, 40, 5621-5626.	4.0	33
33	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
34	Seasonal activity and morphological changes in martian gullies. <i>Icarus</i> , 2012, 220, 124-143.	2.5	195
35	Seasonal Flows on Warm Martian Slopes. <i>Science</i> , 2011, 333, 740-743.	12.6	451
36	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

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37	The High Resolution Imaging Science Experiment (HiRISE) during MRO's Primary Science Phase (PSP). Icarus, 2010, 205, 2-37.	2.5	153
38	Hydrovolcanic features on Mars: Preliminary observations from the first Mars year of HiRISE imaging. Icarus, 2010, 205, 211-229.	2.5	78
39	Color imaging of Mars by the High Resolution Imaging Science Experiment (HiRISE). Icarus, 2010, 205, 38-52.	2.5	89
40	Aeolian bedforms, yardangs, and indurated surfaces in the Tharsis Montes as seen by the HiRISE Camera: Evidence for dust aggregates. Icarus, 2010, 205, 165-182.	2.5	80
41	Investigating gully flow emplacement mechanisms using apex slopes. Icarus, 2010, 208, 132-142.	2.5	29
42	Seasonality of present-day Martian dune-gully activity. Geology, 2010, 38, 1047-1050.	4.4	104
43	New and recent gully activity on Mars as seen by HiRISE. Geophysical Research Letters, 2010, 37, .	4.0	105
44	Crater population and resurfacing of the Martian north polar layered deposits. Journal of Geophysical Research, 2010, 115, .	3.3	48
45	Role of material properties in the cratering record of young platy-ridged lava on Mars. Geophysical Research Letters, 2010, 37, .	4.0	52
46	Seasonally active frost-dust avalanches on a north polar scarp of Mars captured by HiRISE. Geophysical Research Letters, 2008, 35, .	4.0	48
47	Recent bright gully deposits on Mars: Wet or dry flow?. Geology, 2008, 36, 211.	4.4	124
48	Mapping rays and secondary craters from the Martian crater Zunil. Journal of Geophysical Research, 2007, 112, .	3.3	57
49	Mars Reconnaissance Orbiter's High Resolution Imaging Science Experiment (HiRISE). Journal of Geophysical Research, 2007, 112, .	3.3	1,253
50	HiRISE observations of slope streaks on Mars. Geophysical Research Letters, 2007, 34, .	4.0	100
51	Rays and secondary craters of Tycho. Icarus, 2007, 186, 31-40.	2.5	53
52	Identification of large (2-10 km) rayed craters on Mars in THEMIS thermal infrared images: Implications for possible Martian meteorite source regions. Journal of Geophysical Research, 2006, 111, .	3.3	98
53	THE IMPORTANCE OF SECONDARY CRATERING TO AGE CONSTRAINTS ON PLANETARY SURFACES. Annual Review of Earth and Planetary Sciences, 2006, 34, 535-567.	11.0	228
54	The rayed crater Zunil and interpretations of small impact craters on Mars. Icarus, 2005, 176, 351-381.	2.5	335

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55	HIRISE focal plane for use on the Mars Reconnaissance Orbiter. , 2004, , .		5
56	PLANETARY SCIENCE: Active Volcanism on Io. Science, 2002, 297, 2220-2221.	12.6	13
57	Introduction to the Special Section: Geology and Geophysics of Io. Journal of Geophysical Research, 2001, 106, 32959-32961.	3.3	5
58	Io's Thermal Emission from the Galileo Photopolarimeter- Radiometer. Science, 2000, 288, 1198-1201.	12.6	123
59	Global Color Variations on Io. Icarus, 1999, 140, 265-282.	2.5	111
60	Active Volcanism on Io: Global Distribution and Variations in Activity. Icarus, 1999, 140, 243-264.	2.5	128
61	Magmatic Differentiation of Io. Icarus, 1997, 130, 437-448.	2.5	63