Alfred S Mcewen

List of Publications by Year
in descending order

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61 papers	6,714 citations	81839 39 h-index	133188 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). Journal of Geophysical Research, 2007, 112, .	3.3	1,253
2	Spectral evidence for hydrated salts in recurring slope lineae on Mars. Nature Geoscience, 2015, 8, 829-832.	5.4	513
3	Seasonal Flows on Warm Martian Slopes. Science, 2011, 333, 740-743.	6.0	451
4	The rayed crater Zunil and interpretations of small impact craters on Mars. Icarus, 2005, 176, 351-381.	1.1	335
5	A New Analysis of Mars â€œSpecial Regionsâ€• Findings of the Second MEPAG Special Regions Science Analysis Group (SR-SAG2). Astrobiology, 2014, 14, 887-968.	1.5	317
6	Recurring slope lineae in equatorial regions of Mars. Nature Geoscience, 2014, 7, 53-58.	5.4	248
7	THE IMPORTANCE OF SECONDARY CRATERING TO AGE CONSTRAINTS ON PLANETARY SURFACES. Annual Review of Earth and Planetary Sciences, 2006, 34, 535-567.	4.6	228
8	Seasonal activity and morphological changes in martian gullies. Icarus, 2012, 220, 124-143.	1.1	195
9	Exposed subsurface ice sheets in the Martian mid-latitudes. Science, 2018, 359, 199-201.	6.0	174
10	The High Resolution Imaging Science Experiment (HiRISE) during MROâ€™s Primary Science Phase (PSP). Icarus, 2010, 205, 2-37.	1.1	153
11	Long-term monitoring of martian gully formation and evolution with MRO/HiRISE. Icarus, 2015, 251, 244-263.	1.1	141
12	A new dry hypothesis for the formation of martian linear gullies. Icarus, 2013, 225, 526-537.	1.1	132
13	Active Volcanism on Io: Global Distribution and Variations in Activity. Icarus, 1999, 140, 243-264.	1.1	128
14	Recent bright gully deposits on Mars: Wet or dry flow?. Geology, 2008, 36, 211.	2.0	124
15	Io's Thermal Emission from the Galileo Photopolarimeter- Radiometer. Science, 2000, 288, 1198-1201.	6.0	123
16	Global Color Variations on Io. Icarus, 1999, 140, 265-282.	1.1	111
17	New and recent gully activity on Mars as seen by HiRISE. Geophysical Research Letters, 2010, 37, .	1.5	105
18	Seasonality of present-day Martian dune-gully activity. Geology, 2010, 38, 1047-1050.	2.0	104

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19	HiRISE observations of slope streaks on Mars. Geophysical Research Letters, 2007, 34, .	1.5	100
20	Identification of large (2â€“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
21	HiRISE observations of new impact craters exposing Martian ground ice. Journal of Geophysical Research E: Planets, 2014, 119, 109-127.	1.5	98
22	Granular flows at recurring slope lineae on Mars indicate a limited role for liquid water. Nature Geoscience, 2017, 10, 903-907.	5.4	96
23	HiRISE observations of Recurring Slope Lineae (RSL) during southern summer on Mars. Icarus, 2014, 231, 365-376.	1.1	90
24	Color imaging of Mars by the High Resolution Imaging Science Experiment (HiRISE). Icarus, 2010, 205, 38-52.	1.1	89
25	Widespread crater-related pitted materials on Mars: Further evidence for the role of target volatiles during the impact process. Icarus, 2012, 220, 348-368.	1.1	85
26	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.	1.1	80
27	Mars Reconnaissance Orbiter observations of light-toned layered deposits and associated fluvial landforms on the plateaus adjacent to Valles Marineris. Icarus, 2010, 205, 73-102.	1.1	79
28	Hydrovolcanic features on Mars: Preliminary observations from the first Mars year of HiRISE imaging. Icarus, 2010, 205, 211-229.	1.1	78
29	Avalanche slope angles in lowâ€gravity environments from active Martian sand dunes. Geophysical Research Letters, 2013, 40, 2929-2934.	1.5	69
30	Magmatic Differentiation of Io. Icarus, 1997, 130, 437-448.	1.1	63
31	Mapping rays and secondary craters from the Martian crater Zunil. Journal of Geophysical Research, 2007, 112, .	3.3	57
32	Geologic context of recurring slope lineae in Melas and Coprates Chasmata, Mars. Journal of Geophysical Research E: Planets, 2016, 121, 1204-1231.	1.5	56
33	Rays and secondary craters of Tycho. Icarus, 2007, 186, 31-40.	1.1	53
34	Role of material properties in the cratering record of young platyâ€ridged lava on Mars. Geophysical Research Letters, 2010, 37, .	1.5	52
35	Expanded secondary craters in the Arcadia Planitia region, Mars: Evidence for tens of Myr-old shallow subsurface ice. Icarus, 2015, 248, 190-204.	1.1	49
36	Changes in blast zone albedo patterns around new martian impact craters. Icarus, 2016, 267, 86-105.	1.1	49

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37	Seasonally active frostâ€dust avalanches on a north polar scarp of Mars captured by HiRISE. Geophysical Research Letters, 2008, 35, .	1.5	48
38	Crater population and resurfacing of the Martian north polar layered deposits. Journal of Geophysical Research, 2010, 115, .	3.3	48
39	The formation of gullies on Mars today. Geological Society Special Publication, 2019, 467, 67-94.	0.8	45
40	Modern Mars' geomorphological activity, driven by wind, frost, and gravity. Geomorphology, 2021, 380, 107627.	1.1	40
41	Spectral constraints on the formation mechanism of recurring slope lineae. Geophysical Research Letters, 2013, 40, 5621-5626.	1.5	33
42	A case study of recurring slope lineae (RSL) at Tivat crater: Implications for RSL origins. Icarus, 2019, 317, 621-648.	1.1	32
43	Investigating gully flow emplacement mechanisms using apex slopes. Icarus, 2010, 208, 132-142.	1.1	29
44	Widespread Exposures of Extensive Clean Shallow Ice in the Midlatitudes of Mars. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006617.	1.5	29
45	Implications for the origin and evolution of Martian Recurring Slope Lineae at Hale crater from CaSSIS observations. Planetary and Space Science, 2020, 187, 104947.	0.9	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. Space Science Reviews, 2018, 214, 1.	3.7	24
47	Subsurface Cl-bearing salts as potential contributors to recurring slope lineae (RSL) on Mars. Icarus, 2019, 333, 464-480.	1.1	24
48	Mars: Abundant Recurring Slope Lineae (RSL) Following the Planetâ€Encircling Dust Event (PEDE) of 2018. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006575.	1.5	21
49	Slope activity in Gale crater, Mars. Icarus, 2015, 254, 213-218.	1.1	19
50	Active Mars: A Dynamic World. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006876.	1.5	17
51	Seasonal Slumps in Juventae Chasma, Mars. Journal of Geophysical Research E: Planets, 2017, 122, 2193-2214.	1.5	14
52	A Preliminary Regional Geomorphologic Map in Utopia Planitia of the Tianwenâ€1 Zhurong Landing Region. Geophysical Research Letters, 2021, 48, e2021GL094629.	1.5	14
53	PLANETARY SCIENCE: Active Volcanism on Io. Science, 2002, 297, 2220-2221.	6.0	13
54	Present-day mass wasting in sulfate-rich sediments in the equatorial regions of Mars. Icarus, 2020, 342, 113566.	1.1	11

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55	Revealing Active Mars with HiRISE Digital Terrain Models. Remote Sensing, 2022, 14, 2403.	1.8	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.	0.9	8
57	CaSSIS color and multi-angular observations of Martian slope streaks. Planetary and Space Science, 2021, 209, 105373.	0.9	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.	1.1	4