

Michael C Malin

List of Publications by Year in descending order

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72
papers

14,361
citations

41258

49
h-index

98622

67
g-index

73
all docs

73
docs citations

73
times ranked

5205
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for Recent Groundwater Seepage and Surface Runoff on Mars. <i>Science</i> , 2000, 288, 2330-2335.	6.0	998
2	Context Camera Investigation on board the Mars Reconnaissance Orbiter. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	953
3	Mars Global Surveyor Thermal Emission Spectrometer experiment: Investigation description and surface science results. <i>Journal of Geophysical Research</i> , 2001, 106, 23823-23871.	3.3	903
4	The Thermal Emission Imaging System (THEMIS) for the Mars 2001 Odyssey Mission. <i>Space Science Reviews</i> , 2004, 110, 85-130.	3.7	802
5	Sedimentary Rocks of Early Mars. <i>Science</i> , 2000, 290, 1927-1937.	6.0	766
6	Mars Global Surveyor Mars Orbiter Camera: Interplanetary cruise through primary mission. <i>Journal of Geophysical Research</i> , 2001, 106, 23429-23570.	3.3	747
7	Lunar Reconnaissance Orbiter Camera (LROC) Instrument Overview. <i>Space Science Reviews</i> , 2010, 150, 81-124.	3.7	730
8	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1242777.	6.0	687
9	Mars Science Laboratory Mission and Science Investigation. <i>Space Science Reviews</i> , 2012, 170, 5-56.	3.7	650
10	Deposition, exhumation, and paleoclimate of an ancient lake deposit, Gale crater, Mars. <i>Science</i> , 2015, 350, aac7575.	6.0	471
11	Present-Day Impact Cratering Rate and Contemporary Gully Activity on Mars. <i>Science</i> , 2006, 314, 1573-1577.	6.0	461
12	Evidence for Persistent Flow and Aqueous Sedimentation on Early Mars. <i>Science</i> , 2003, 302, 1931-1934.	6.0	453
13	Martian Fluvial Conglomerates at Gale Crater. <i>Science</i> , 2013, 340, 1068-1072.	6.0	326
14	Channels on Mars. <i>Bulletin of the Geological Society of America</i> , 1975, 86, 593.	1.6	288
15	NEAR at Eros: Imaging and Spectral Results. <i>Science</i> , 2000, 289, 2088-2097.	6.0	250
16	Voluminous volcanism on early Mars revealed in Valles Marineris. <i>Nature</i> , 1999, 397, 584-586.	13.7	247
17	Results from the Mars Pathfinder Camera. <i>Science</i> , 1997, 278, 1758-1765.	6.0	242
18	Mars Observer camera. <i>Journal of Geophysical Research</i> , 1992, 97, 7699-7718.	3.3	240

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19	Overview of the Spirit Mars Exploration Rover Mission to Gusev Crater: Landing site to Backstay Rock in the Columbia Hills. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	238
20	Aeolian processes at the Mars Exploration Rover Meridiani Planum landing site. <i>Nature</i> , 2005, 436, 58-61.	13.7	233
21	In Situ Radiometric and Exposure Age Dating of the Martian Surface. <i>Science</i> , 2014, 343, 1247166.	6.0	224
22	Early Views of the Martian Surface from the Mars Orbiter Camera of Mars Global Surveyor. <i>Science</i> , 1998, 279, 1681-1685.	6.0	213
23	Groundwater formation of martian valleys. <i>Nature</i> , 1999, 397, 589-591.	13.7	186
24	Evidence for recent volcanism on Mars from crater counts. <i>Nature</i> , 1999, 397, 586-589.	13.7	179
25	Mass movement slope streaks imaged by the Mars Orbiter Camera. <i>Journal of Geophysical Research</i> , 2001, 106, 23607-23633.	3.3	174
26	Pancam Multispectral Imaging Results from the Spirit Rover at Gusev Crater. <i>Science</i> , 2004, 305, 800-806.	6.0	153
27	Overview of the Opportunity Mars Exploration Rover Mission to Meridiani Planum: Eagle Crater to Purgatory Ripple. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	149
28	Observational Evidence for an Active Surface Reservoir of Solid Carbon Dioxide on Mars. <i>Science</i> , 2001, 294, 2146-2148.	6.0	137
29	New views of Mars eolian activity, materials, and surface properties: Three vignettes from the Mars Global Surveyor Mars Orbiter Camera. <i>Journal of Geophysical Research</i> , 2000, 105, 1623-1650.	3.3	136
30	Oceans or seas in the Martian northern lowlands: High resolution imaging tests of proposed coastlines. <i>Geophysical Research Letters</i> , 1999, 26, 3049-3052.	1.5	128
31	The Mars Science Laboratory (MSL) Mast cameras and Descent imager: Investigation and instrument descriptions. <i>Earth and Space Science</i> , 2017, 4, 506-539.	1.1	117
32	The Mars Science Laboratory <i>Curiosity</i> rover Mastcam instruments: Preflight and in-flight calibration, validation, and data archiving. <i>Earth and Space Science</i> , 2017, 4, 396-452.	1.1	113
33	North-south geological differences between the residual polar caps on Mars. <i>Nature</i> , 2000, 404, 161-164.	13.7	112
34	Oxidation of manganese in an ancient aquifer, Kimberley formation, Gale crater, Mars. <i>Geophysical Research Letters</i> , 2016, 43, 7398-7407.	1.5	110
35	Multiyear Mars Orbiter Camera (MOC) observations of repeated Martian weather phenomena during the northern summer season. <i>Journal of Geophysical Research</i> , 2002, 107, 3-1.	3.3	97
36	Introduction to special section on the Phoenix Mission: Landing Site Characterization Experiments, Mission Overviews, and Expected Science. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	95

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37	Mariner 9 observations of the surface of Mars in the north polar region. Journal of Geophysical Research, 1973, 78, 4197-4210.	3.3	94
38	Winds at the Phoenix landing site. Journal of Geophysical Research, 2010, 115, .	3.3	89
39	Mars Reconnaissance Orbiter Mars Color Imager (MARCI): Instrument description, calibration, and performance. Journal of Geophysical Research, 2009, 114, .	3.3	79
40	Evidence for late stage fluvial activity in Kasei Valles, Mars. Journal of Geophysical Research, 2004, 109, .	3.3	78
41	Martian sedimentary rock stratigraphy: Outcrops and interbedded craters of northwest Sinus Meridiani and southwest Arabia Terra. Geophysical Research Letters, 2002, 29, 32-1-32-4.	1.5	74
42	Bright dunes on Mars. Nature, 1999, 397, 592-594.	13.7	73
43	Design and development of the mars observer camera. International Journal of Imaging Systems and Technology, 1991, 3, 76-91.	2.7	72
44	Mars Exploration Program 2007 Phoenix landing site selection and characteristics. Journal of Geophysical Research, 2008, 113, .	3.3	64
45	Mars Color Imager (MARCI) on the Mars Climate Orbiter. Journal of Geophysical Research, 2001, 106, 17651-17672.	3.3	61
46	Sub-kilometer fans in Mojave Crater, Mars. Icarus, 2008, 198, 365-383.	1.1	61
47	The periglacial landscape at the Phoenix landing site. Journal of Geophysical Research, 2009, 114, .	3.3	61
48	Shaler: <i>in situ</i> analysis of a fluvial sedimentary deposit on Mars. Sedimentology, 2018, 65, 96-122.	1.6	59
49	Chemical variations in Yellowknife Bay formation sedimentary rocks analyzed by ChemCam on board the Curiosity rover on Mars. Journal of Geophysical Research E: Planets, 2015, 120, 452-482.	1.5	51
50	Mars landscape evolution: influence of stratigraphy on geomorphology in the north polar region. Geomorphology, 2003, 52, 289-297.	1.1	50
51	Subaqueous shrinkage cracks in the Sheepbed mudstone: Implications for early fluid diagenesis, Gale crater, Mars. Journal of Geophysical Research E: Planets, 2014, 119, 1597-1613.	1.5	50
52	Daily global mapping of Mars ozone column abundances with MARCI UV band imaging. Icarus, 2016, 266, 112-133.	1.1	50
53	Flow rates and duration within Kasei Valles, Mars: Implications for the formation of a Martian Ocean. Geophysical Research Letters, 2000, 27, 1073-1076.	1.5	46
54	Mapping water ice clouds on Mars with MRO/MARCI. Icarus, 2019, 332, 24-49.	1.1	45

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55	A New Crater Near InSight: Implications for Seismic Impact Detectability on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006382.	1.5	24
56	Impact-induced overland fluid flow and channelized erosion at Lyot Crater, Mars. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	22
57	Lunar Reconnaissance Orbiter Camera (LROC) Instrument Overview. , 2010, , 81-124.		21
58	Distribution of primary and secondary features in the Pahrump Hills outcrop (Gale crater, Mars) as seen in a Mars Descent Imager (MARDI) -sidewalk-mosaic. <i>Icarus</i> , 2019, 328, 194-209.	1.1	19
59	Valles Marineris cloud trails. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	15
60	Assessment of Aeolis Palus stratigraphic relationships based on bench-forming strata in the Kylie and the Kimberley regions of Gale crater, Mars. <i>Icarus</i> , 2018, 309, 84-104.	1.1	15
61	New Craters on Mars: An Updated Catalog. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	14
62	Transient atmospheric effects of the landing of the Mars Science Laboratory rover: The emission and dissipation of dust and carbazic acid. <i>Advances in Space Research</i> , 2016, 58, 1066-1092.	1.2	12
63	Analysis of a spectrally unique deposit in the dissected Noachian terrain of Mars. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	11
64	Engraved on the rocks - Aeolian abrasion of Martian mudstone exposures and their relationship to modern wind patterns in Gale Crater, Mars. <i>Depositional Record</i> , 2020, 6, 625-647.	0.8	9
65	Mars perihelion cloud trails as revealed by MARCI: Mesoscale topographically focused updrafts and gravity wave forcing of high altitude clouds. <i>Icarus</i> , 2021, 362, 114411.	1.1	9
66	Ancient Winds, Waves, and Atmosphere in Gale Crater, Mars, Inferred From Sedimentary Structures and Wave Modeling. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	7
67	The Mars Aerial Platform (MAP) concept. , 1996, , .		5
68	Mars Descent Imager (MARDI) on the Mars Polar Lander. <i>Journal of Geophysical Research</i> , 2001, 106, 17635-17650.	3.3	5
69	Billion-year exposure ages in Gale crater (Mars) indicate Mount Sharp formed before the Amazonian period. <i>Earth and Planetary Science Letters</i> , 2021, 554, 116667.	1.8	4
70	Active ground patterns near Mars' equator in the Glen Torridon region of Gale Crater. <i>Journal of Geophysical Research E: Planets</i> , 0, , .	1.5	3
71	Martian Surface Composition as Determined by the MGS Thermal Emission Spectrometer. <i>Highlights of Astronomy</i> , 2002, 12, 636-636.	0.0	0
72	G. Edward Danielson, Jr. (1939 - 2005). <i>Icarus</i> , 2008, 194, 399-400.	1.1	0