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List of Publications by Year
in descending order

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60 papers	2,916 citations	186265 28 h-index	168389 53 g-index
60 all docs	60 docs citations	60 times ranked	1866 citing authors

#	Article	IF	Citations
1	Early Noachian terrains: Vestiges of the early evolution of Mars. Icarus, 2022, 387, 115170.	2.5	0
2	Unraveling the geologic and tectonic history of the Memnonia-Sirenum region of Mars: Implications on the early formation of the Tharsis rise. Icarus, 2019, 332, 132-150.	2.5	11
3	Timings of early crustal activity in southern highlands of Mars: Periods of crustal stretching and shortening. Geoscience Frontiers, 2019, 10, 1029-1037.	8.4	7
4	A possible anorthositic continent of early Mars and the role of planetary size for the inception of Earth-like life. Geoscience Frontiers, 2018, 9, 1085-1098.	8.4	20
5	Long-lived volcanism within Argyre basin, Mars. Icarus, 2017, 293, 8-26.	2.5	8
6	Tier-scalable reconnaissance: the future in autonomous C4ISR systems has arrived: progress towards an outdoor testbed. Proceedings of SPIE, 2017, , .	0.8	9
7	Generic identification and classification of morphostructures in the Noachis-Sabaea region, southern highlands of Mars. Journal of Maps, 2017, 13, 755-766.	2.0	10
8	Geomorphological Indication of Ancient, Recent, and Possibly Present-day Aqueous Activity on Mars. Journal of Geography (Chigaku Zasshi), 2016, 125, 121-132.	0.3	3
9	Assessing the geologic evolution of Greater Thaumasia, Mars. Journal of Geophysical Research E: Planets, 2016, 121, 1753-1769.	3.6	9
10	The Argyre Region as a Prime Target forin situAstrobiological Exploration of Mars. Astrobiology, 2016, 16, 143-158.	3.0	4
11	Mineralogy, chemistry and biological contingents of an early-middle Miocene Antarctic paleosol and its relevance as a Martian analogue. Planetary and Space Science, 2014, 104, 253-269.	1.7	8
12	Searching for evidence of hydrothermal activity at Apollinaris Mons, Mars. Icarus, 2012, 217, 297-314.	2.5	64
13	Meteorites at Meridiani Planum provide evidence for significant amounts of surface and nearâ€surface water on early Mars. Meteoritics and Planetary Science, 2011, 46, 1832-1841.	1.6	17
14	A large sedimentary basin in the Terra Sirenum region of the southern highlands of Mars. Icarus, 2011, 212, 579-589.	2.5	21
15	Aluminum extracts in Antarctic paleosols: Proxy data for organic compounds and bacteria and implications for Martian paleosols. Sedimentary Geology, 2011, 237, 84-94.	2.1	4
16	The 2011 Japanese 9.0 magnitude earthquake: Test of a kinetic energy wave model using coastal configuration and offshore gradient of Earth and beyond. Sedimentary Geology, 2011, 239, 80-86.	2.1	20
17	A Bacterial Enrichment Study and Overview of the Extractable Lipids from Paleosols in the Dry Valleys, Antarctica: Implications for Future Mars Reconnaissance. Astrobiology, 2011, 11, 303-321.	3.0	14
18	Evidence for Hesperian impact-induced hydrothermalism on Mars. Icarus, 2010, 208, 667-683.	2.5	127

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19	Tsunamis on Mars: Earth analogues of projected Martian sediment. Planetary and Space Science, 2010, 58, 1823-1831.	1.7	26
20	Noachian and more recent phyllosilicates in impact craters on Mars. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12095-12100.	7.1	73
21	Astrobiology through the Ages of Mars: The Study of Terrestrial Analogues to Understand the Habitability of Mars. Astrobiology, 2010, 10, 821-843.	3.0	141
22	New evidence for a magmatic influence on the origin of Valles Marineris, Mars. Journal of Volcanology and Geothermal Research, 2009, 185, 12-27.	2.1	31
23	Claritas rise, Mars: Pre-Tharsis magmatism?. Journal of Volcanology and Geothermal Research, 2009, 185, 139-156.	2.1	66
24	Ancient heat flow and crustal thickness at Warrego rise, Thaumasia highlands, Mars: Implications for a stratified crust. Icarus, 2009, 203, 47-57.	2.5	28
25	Assessment of planetary geologic mapping techniques for Mars using terrestrial analogs: The SP Mountain area of the San Francisco Volcanic Field, Arizona. Planetary and Space Science, 2009, 57, 510-532.	1.7	15
26	GRS evidence and the possibility of paleooceans on Mars. Planetary and Space Science, 2009, 57, 664-684.	1.7	107
27	Recent geological and hydrological activity on Mars: The Tharsis/Elysium corridor. Planetary and Space Science, 2008, 56, 985-1013.	1.7	92
28	Mars Odyssey Gamma Ray Spectrometer elemental abundances and apparent relative surface age: Implications for Martian crustal evolution. Journal of Geophysical Research, 2007, 112, .	3.3	28
29	Tier-Scalable Reconnaissance Missions For The Autonomous Exploration Of Planetary Bodies. , 2007, , .		32
30	Composition of northern low-albedo regions of Mars: Insights from the Mars Odyssey Gamma Ray Spectrometer. Journal of Geophysical Research, 2007, 112, .	3.3	18
31	Life in the Atacama: A scoring system for habitability and the robotic exploration for life. Journal of Geophysical Research, 2007, 112, .	3.3	12
32	Exploration of hydrothermal targets on Mars. Icarus, 2007, 189, 308-324.	2.5	140
33	Formation and disruption of aquifers in southwestern Chryse Planitia, Mars. Icarus, 2007, 191, 545-567.	2.5	38
34	Rock glaciers on Mars: Earth-based clues to Marsâ€™ recent paleoclimatic history. Planetary and Space Science, 2007, 55, 181-192.	1.7	38
35	Possible ancient giant basin and related water enrichment in the Arabia Terra province, Mars. Icarus, 2007, 190, 74-92.	2.5	39
36	Tharsis Superplume and the Geological Evolution of Early Mars. , 2007, , 507-522.		27

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37	Traits and Evolution of the Tharsis Superplume, Mars. , 2007, , 523-536.		19
38	Headward growth of chasmata by volatile outbursts, collapse, and drainage: Evidence from Ganges chaos, Mars. Geophysical Research Letters, 2006, 33, n/a-n/a.	4.0	27
39	Numerical simulations of large-scale cataclysmic floodwater: A simple depth-averaged model and an illustrative application. Geomorphology, 2006, 76, 179-192.	2.6	34
40	Prime candidate sites for astrobiological exploration through the hydrogeological history of Mars. Planetary and Space Science, 2005, 53, 1355-1375.	1.7	22
41	Next-generation robotic planetary reconnaissance missions: A paradigm shift. Planetary and Space Science, 2005, 53, 1419-1426.	1.7	85
42	Outflow channel sources, reactivation, and chaos formation, Xanthe Terra, Mars. Icarus, 2005, 175, 36-57.	2.5	93
43	Extraterrestrial hydrogeology. Hydrogeology Journal, 2005, 13, 51-68.	2.1	23
44	Venus, Mars, and the Ices on Mercury and the Moon: Astrobiological Implications and Proposed Mission Designs. Astrobiology, 2005, 5, 778-795.	3.0	44
45	Control of impact crater fracture systems on subsurface hydrology, ground subsidence, and collapse, Mars. Journal of Geophysical Research, 2005, 110, .	3.3	44
46	Scenarios for the evolution of life on Mars. Journal of Geophysical Research, 2005, 110, .	3.3	48
47	Inhibition of carbonate synthesis in acidic oceans on early Mars. Nature, 2004, 431, 423-426.	27.8	169
48	Age and origin of the lowlands of Mars. Icarus, 2004, 168, 277-284.	2.5	31
49	Ancient wet aeolian environments on Earth: clues to presence of fossil/live microorganisms on Mars. Icarus, 2004, 171, 39-53.	2.5	28
50	The northwestern slope valleys (NSVs) region, Mars: a prime candidate site for the future exploration of Mars. Planetary and Space Science, 2004, 52, 189-198.	1.7	29
51	Thermal isostasy and deformation of possible paleoshorelines on Mars. Planetary and Space Science, 2004, 52, 1297-1301.	1.7	22
52	Marineâ€target craters on Mars? An assessment study. Meteoritics and Planetary Science, 2004, 39, 333-346.	1.6	39
53	Hydrogeologic processes of large-scale tectonomagmatic complexes in Mongoliaâ€“southern Siberia and on Mars. Geology, 2004, 32, 325.	4.4	31
54	Episodic flood inundations of the northern plains of Mars. Icarus, 2003, 165, 53-67.	2.5	167

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55	Variations in the onset diameter for Martian layered ejecta morphologies and their implications for subsurface volatile reservoirs. Geophysical Research Letters, 2001, 28, 3095-3098.	4.0	43
56	Primary centers and secondary concentrations of tectonic activity through time in the western hemisphere of Mars. Journal of Geophysical Research, 2001, 106, 20563-20585.	3.3	294
57	Geology of the Thaumasia region, Mars: plateau development, valley origins, and magmatic evolution. Planetary and Space Science, 1999, 47, 411-431.	1.7	185
58	Erosional valleys in the Thaumasia region of Mars: Hydrothermal and seismic origins. Journal of Geophysical Research, 1998, 103, 31407-31419.	3.3	94
59	Martian paleolakes and waterways: Exobiological implications. Origins of Life and Evolution of Biospheres, 1991, 21, 189-198.	1.9	36
60	Planetary structural mapping. , 0, , 351-396.		2