

James M Dohm

List of Publications by Year in descending order

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Version: 2024-02-01

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	Primary centers and secondary concentrations of tectonic activity through time in the western hemisphere of Mars. <i>Journal of Geophysical Research</i> , 2001, 106, 20563-20585.	3.3	294
2	Geology of the Thaumasia region, Mars: plateau development, valley origins, and magmatic evolution. <i>Planetary and Space Science</i> , 1999, 47, 411-431.	1.7	185
3	Inhibition of carbonate synthesis in acidic oceans on early Mars. <i>Nature</i> , 2004, 431, 423-426.	27.8	169
4	Episodic flood inundations of the northern plains of Mars. <i>Icarus</i> , 2003, 165, 53-67.	2.5	167
5	Astrobiology through the Ages of Mars: The Study of Terrestrial Analogues to Understand the Habitability of Mars. <i>Astrobiology</i> , 2010, 10, 821-843.	3.0	141
6	Exploration of hydrothermal targets on Mars. <i>Icarus</i> , 2007, 189, 308-324.	2.5	140
7	Evidence for Hesperian impact-induced hydrothermalism on Mars. <i>Icarus</i> , 2010, 208, 667-683.	2.5	127
8	GRS evidence and the possibility of paleooceans on Mars. <i>Planetary and Space Science</i> , 2009, 57, 664-684.	1.7	107
9	Erosional valleys in the Thaumasia region of Mars: Hydrothermal and seismic origins. <i>Journal of Geophysical Research</i> , 1998, 103, 31407-31419.	3.3	94
10	Outflow channel sources, reactivation, and chaos formation, Xanthe Terra, Mars. <i>Icarus</i> , 2005, 175, 36-57.	2.5	93
11	Recent geological and hydrological activity on Mars: The Tharsis/Elysium corridor. <i>Planetary and Space Science</i> , 2008, 56, 985-1013.	1.7	92
12	Next-generation robotic planetary reconnaissance missions: A paradigm shift. <i>Planetary and Space Science</i> , 2005, 53, 1419-1426.	1.7	85
13	Noachian and more recent phyllosilicates in impact craters on Mars. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12095-12100.	7.1	73
14	Claritas rise, Mars: Pre-Tharsis magmatism?. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 185, 139-156.	2.1	66
15	Searching for evidence of hydrothermal activity at Apollinaris Mons, Mars. <i>Icarus</i> , 2012, 217, 297-314.	2.5	64
16	Scenarios for the evolution of life on Mars. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	48
17	Venus, Mars, and the Ices on Mercury and the Moon: Astrobiological Implications and Proposed Mission Designs. <i>Astrobiology</i> , 2005, 5, 778-795.	3.0	44
18	Control of impact crater fracture systems on subsurface hydrology, ground subsidence, and collapse, Mars. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	44

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19	Variations in the onset diameter for Martian layered ejecta morphologies and their implications for subsurface volatile reservoirs. <i>Geophysical Research Letters</i> , 2001, 28, 3095-3098.	4.0	43
20	Marine-€target craters on Mars? An assessment study. <i>Meteoritics and Planetary Science</i> , 2004, 39, 333-346.	1.6	39
21	Possible ancient giant basin and related water enrichment in the Arabia Terra province, Mars. <i>Icarus</i> , 2007, 190, 74-92.	2.5	39
22	Formation and disruption of aquifers in southwestern Chryse Planitia, Mars. <i>Icarus</i> , 2007, 191, 545-567.	2.5	38
23	Rock glaciers on Mars: Earth-based clues to Mars-™ recent paleoclimatic history. <i>Planetary and Space Science</i> , 2007, 55, 181-192.	1.7	38
24	Martian paleolakes and waterways: Exobiological implications. <i>Origins of Life and Evolution of Biospheres</i> , 1991, 21, 189-198.	1.9	36
25	Numerical simulations of large-scale cataclysmic floodwater: A simple depth-averaged model and an illustrative application. <i>Geomorphology</i> , 2006, 76, 179-192.	2.6	34
26	Tier-Scalable Reconnaissance Missions For The Autonomous Exploration Of Planetary Bodies. , 2007, , .		32
27	Age and origin of the lowlands of Mars. <i>Icarus</i> , 2004, 168, 277-284.	2.5	31
28	Hydrogeologic processes of large-scale tectonomagmatic complexes in Mongolia-€southern Siberia and on Mars. <i>Geology</i> , 2004, 32, 325.	4.4	31
29	New evidence for a magmatic influence on the origin of Valles Marineris, Mars. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 185, 12-27.	2.1	31
30	The northwestern slope valleys (NSVs) region, Mars: a prime candidate site for the future exploration of Mars. <i>Planetary and Space Science</i> , 2004, 52, 189-198.	1.7	29
31	Ancient wet aeolian environments on Earth: clues to presence of fossil/live microorganisms on Mars. <i>Icarus</i> , 2004, 171, 39-53.	2.5	28
32	Mars Odyssey Gamma Ray Spectrometer elemental abundances and apparent relative surface age: Implications for Martian crustal evolution. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	28
33	Ancient heat flow and crustal thickness at Warrego rise, Thaumasia highlands, Mars: Implications for a stratified crust. <i>Icarus</i> , 2009, 203, 47-57.	2.5	28
34	Headward growth of chasmata by volatile outbursts, collapse, and drainage: Evidence from Ganges chaos, Mars. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	27
35	Tharsis Superplume and the Geological Evolution of Early Mars. , 2007, , 507-522.		27
36	Tsunamis on Mars: Earth analogues of projected Martian sediment. <i>Planetary and Space Science</i> , 2010, 58, 1823-1831.	1.7	26

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37	Extraterrestrial hydrogeology. <i>Hydrogeology Journal</i> , 2005, 13, 51-68.	2.1	23
38	Thermal isostasy and deformation of possible paleoshorelines on Mars. <i>Planetary and Space Science</i> , 2004, 52, 1297-1301.	1.7	22
39	Prime candidate sites for astrobiological exploration through the hydrogeological history of Mars. <i>Planetary and Space Science</i> , 2005, 53, 1355-1375.	1.7	22
40	A large sedimentary basin in the Terra Sirenum region of the southern highlands of Mars. <i>Icarus</i> , 2011, 212, 579-589.	2.5	21
41	The 2011 Japanese 9.0 magnitude earthquake: Test of a kinetic energy wave model using coastal configuration and offshore gradient of Earth and beyond. <i>Sedimentary Geology</i> , 2011, 239, 80-86.	2.1	20
42	A possible anorthositic continent of early Mars and the role of planetary size for the inception of Earth-like life. <i>Geoscience Frontiers</i> , 2018, 9, 1085-1098.	8.4	20
43	Traits and Evolution of the Tharsis Superplume, Mars. , 2007, , 523-536.		19
44	Composition of northern low-albedo regions of Mars: Insights from the Mars Odyssey Gamma Ray Spectrometer. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	18
45	Meteorites at Meridiani Planum provide evidence for significant amounts of surface and near-surface water on early Mars. <i>Meteoritics and Planetary Science</i> , 2011, 46, 1832-1841.	1.6	17
46	Assessment of planetary geologic mapping techniques for Mars using terrestrial analogs: The SP Mountain area of the San Francisco Volcanic Field, Arizona. <i>Planetary and Space Science</i> , 2009, 57, 510-532.	1.7	15
47	A Bacterial Enrichment Study and Overview of the Extractable Lipids from Paleosols in the Dry Valleys, Antarctica: Implications for Future Mars Reconnaissance. <i>Astrobiology</i> , 2011, 11, 303-321.	3.0	14
48	Life in the Atacama: A scoring system for habitability and the robotic exploration for life. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	12
49	Unraveling the geologic and tectonic history of the Memnonia-Sirenum region of Mars: Implications on the early formation of the Tharsis rise. <i>Icarus</i> , 2019, 332, 132-150.	2.5	11
50	Generic identification and classification of morphostructures in the Noachis-Sabaea region, southern highlands of Mars. <i>Journal of Maps</i> , 2017, 13, 755-766.	2.0	10
51	Assessing the geologic evolution of Greater Thaumasia, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1753-1769.	3.6	9
52	Tier-scalable reconnaissance: the future in autonomous C4ISR systems has arrived: progress towards an outdoor testbed. <i>Proceedings of SPIE</i> , 2017, , .	0.8	9
53	Mineralogy, chemistry and biological contingents of an early-middle Miocene Antarctic paleosol and its relevance as a Martian analogue. <i>Planetary and Space Science</i> , 2014, 104, 253-269.	1.7	8
54	Long-lived volcanism within Argyre basin, Mars. <i>Icarus</i> , 2017, 293, 8-26.	2.5	8

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55	Timings of early crustal activity in southern highlands of Mars: Periods of crustal stretching and shortening. <i>Geoscience Frontiers</i> , 2019, 10, 1029-1037.	8.4	7
56	Aluminum extracts in Antarctic paleosols: Proxy data for organic compounds and bacteria and implications for Martian paleosols. <i>Sedimentary Geology</i> , 2011, 237, 84-94.	2.1	4
57	The Argyre Region as a Prime Target for <i>in situ</i> Astrobiological Exploration of Mars. <i>Astrobiology</i> , 2016, 16, 143-158.	3.0	4
58	Geomorphological Indication of Ancient, Recent, and Possibly Present-day Aqueous Activity on Mars. <i>Journal of Geography (Chigaku Zasshi)</i> , 2016, 125, 121-132.	0.3	3
59	Planetary structural mapping. , 0, , 351-396.		2
60	Early Noachian terrains: Vestiges of the early evolution of Mars. <i>Icarus</i> , 2022, 387, 115170.	2.5	0