

Peter J Mouginis-Mark

List of Publications by Year in descending order

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71
papers

2,711
citations

117625

34
h-index

189892

50
g-index

72
all docs

72
docs citations

72
times ranked

1596
citing authors

#	ARTICLE	IF	CITATIONS
1	Martian fluidized crater morphology: Variations with crater size, latitude, altitude, and target material. <i>Journal of Geophysical Research</i> , 1979, 84, 8011-8022.	3.3	177
2	Chronology, Eruption Duration, and Atmospheric Contribution of the Martian Volcano Apollinaris Patera. <i>Icarus</i> , 1993, 104, 301-323.	2.5	108
3	Explosive volcanism on Hecates Tholus, Mars: Investigation of eruption conditions. <i>Journal of Geophysical Research</i> , 1982, 87, 9890-9904.	3.3	97
4	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
5	Volcano/ground ice interactions in Elysium Planitia, Mars. <i>Icarus</i> , 1985, 64, 265-284.	2.5	83
6	Real-time measurement of volcanic SO ₂ emissions: validation of a new UV correlation spectrometer (FLYSPEC). <i>Bulletin of Volcanology</i> , 2006, 68, 323-327.	3.0	82
7	Ejecta emplacement and modes of formation of martian fluidized ejecta craters. <i>Icarus</i> , 1981, 45, 60-76.	2.5	76
8	A shallow-dipping dike fed the 1995 flank eruption at Fernandina Volcano, Galápagos, observed by satellite radar interferometry. <i>Geophysical Research Letters</i> , 1999, 26, 1077-1080.	4.0	76
9	Distribution of thermal areas on an active lava flow field: Landsat observations of Kilauea, Hawaii, July 1991. <i>Bulletin of Volcanology</i> , 1994, 56, 284-296.	3.0	73
10	Martian craters viewed by the Thermal Emission Imaging System instrument: Double-layered ejecta craters. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	72
11	Elysium planitia, mars: Regional geology, volcanology, and evidence for volcano-ground ice interactions. <i>Earth, Moon and Planets</i> , 1984, 30, 149-173.	0.6	71
12	Recent water release in the Tharsis region of Mars. <i>Icarus</i> , 1990, 84, 362-373.	2.5	69
13	Accurately measuring volcanic plume velocity with multiple UV spectrometers. <i>Bulletin of Volcanology</i> , 2006, 68, 328-332.	3.0	65
14	Cooling rate of an active Hawaiian lava flow from nighttime spectroradiometer measurements. <i>Geophysical Research Letters</i> , 1992, 19, 1783-1786.	4.0	64
15	Volumetric characteristics of lava flows from interferometric radar and multispectral satellite data: the 1995 Fernandina and 1998 Cerro Azul eruptions in the western Galápagos. <i>Bulletin of Volcanology</i> , 2003, 65, 311-330.	3.0	62
16	Rampart craters on Ganymede: Their implications for fluidized ejecta emplacement. <i>Meteoritics and Planetary Science</i> , 2010, 45, 638-661.	1.6	61
17	Ancient oceans in the northern lowlands of Mars: Evidence from impact crater depth/diameter relationships. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	60
18	Sun photometer and lidar measurements of the plume from the Hawaii Kilauea Volcano Pu'u O'o vent: Aerosol flux and SO ₂ lifetime. <i>Geophysical Research Letters</i> , 2002, 29, 30-1-30-4.	4.0	55

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19	Temperature of an active lava channel from spectral measurements, Kilauea Volcano, Hawaii. Bulletin of Volcanology, 1994, 56, 297-301.	3.0	53
20	Origin of small pits in martian impact craters. Icarus, 2012, 221, 262-275.	2.5	51
21	Phreatomagmatic explosive origin of Hrad Vallis, Mars. Journal of Geophysical Research, 2003, 108, .	3.3	47
22	Real-time satellite monitoring of volcanic hot spots. Geophysical Monograph Series, 2000, , 139-159.	0.1	45
23	Terrestrial analogs to the calderas of the Tharsis volcanoes on Mars. , 0, , 71-94.		44
24	Chronology of the episode 54 eruption at Kilauea Volcano, Hawaii, from GOES-9 satellite data. Geophysical Research Letters, 1997, 24, 3281-3284.	4.0	43
25	New observations of volcanic features on Mars from the THEMIS instrument. Journal of Geophysical Research, 2005, 110, n/a-n/a.	3.3	43
26	Tooting crater: Geology and geomorphology of the archetype large, fresh, impact crater on Mars. Chemie Der Erde, 2012, 72, 1-23.	2.0	42
27	Evolution of the Olympus Mons Caldera, Mars. Bulletin of Volcanology, 1992, 54, 347-360.	3.0	40
28	Topographic analyses of Kilauea Volcano, Hawai'i, from interferometric airborne radar. Bulletin of Volcanology, 1999, 61, 1-14.	3.0	39
29	Prodigious ash deposits near the summit of Arsia Mons volcano, Mars. Geophysical Research Letters, 2002, 29, 15-1-15-4.	4.0	39
30	The geomorphology of planetary calderas. Geomorphology, 2001, 37, 201-223.	2.6	37
31	Crater geometry and ejecta thickness of the Martian impact crater Tooting. Meteoritics and Planetary Science, 2007, 42, 1615-1625.	1.6	36
32	Fissure eruptions in Tharsis, Mars: Implications for eruption conditions and magma sources. Journal of Volcanology and Geothermal Research, 2009, 185, 28-46.	2.1	36
33	Slopes of Western Galapagos volcanoes from airborne interferometric radar. Geophysical Research Letters, 1996, 23, 3767-3770.	4.0	35
34	Martian fresh crater depths: More evidence for subsurface volatiles?. Geophysical Research Letters, 1980, 7, 329-332.	4.0	34
35	The long lava flows of Elysium Planitia, Mars. Journal of Geophysical Research, 1998, 103, 19389-19400.	3.3	34
36	Possible impact melt and debris flows at Tooting Crater, Mars. Icarus, 2010, 209, 369-389.	2.5	34

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37	Roughness of Hawaiian volcanic terrains. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	33
38	Emplacement of Martian rampart crater deposits. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	30
39	Deep impact craters in the Isidis and southwestern Utopia Planitia regions of Mars: High target material strength as a possible cause. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	29
40	Radar interferometry studies of the Earth's topography. <i>Eos</i> , 1992, 73, 553-553.	0.1	28
41	Estimation of volcanic eruption conditions for a large flank event on Elysium Mons, Mars. <i>Journal of Geophysical Research</i> , 2001, 106, 20621-20628.	3.3	27
42	Dynamics of a fluid flow on Mars: Lava or mud?. <i>Icarus</i> , 2014, 233, 268-280.	2.5	26
43	Episodes of Aqueous Flooding and Effusive Volcanism Associated With Hrad Vallis, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 1484-1510.	3.6	26
44	Volcanic input to the atmosphere from Alba Patera on Mars. <i>Nature</i> , 1987, 330, 354-357.	27.8	25
45	Morphology of martian rampart craters. <i>Nature</i> , 1978, 272, 691-694.	27.8	24
46	Thick lava flows of Karisimbi Volcano, Rwanda: insights from SIR-C interferometric topography. <i>Bulletin of Volcanology</i> , 1998, 60, 239-251.	3.0	24
47	Morphology and geometry of the distal ramparts of Martian impact craters. <i>Meteoritics and Planetary Science</i> , 2006, 41, 1469-1482.	1.6	23
48	Remote sensing of volcanos and volcanic terrains. <i>Eos</i> , 1989, 70, 1567.	0.1	22
49	Lava flows at Arsia Mons, Mars: Insights from a graben imaged by HiRISE. <i>Icarus</i> , 2008, 198, 27-36.	2.5	21
50	Quality of TOPSAR topographic data for volcanology studies at Kilauea Volcano, Hawaii: An assessment using airborne lidar data. <i>Remote Sensing of Environment</i> , 2005, 96, 149-164.	11.0	20
51	Phreato-magmatic dike-cryosphere interactions as the origin of small ridges north of Olympus Mons, Mars. <i>Icarus</i> , 2003, 165, 242-252.	2.5	19
52	GOES satellite and field observations of the 1998 eruption of Volcan Cerro Azul, Galápagos Islands. <i>Bulletin of Volcanology</i> , 2000, 62, 188-198.	3.0	18
53	Digital topography of volcanoes from radar interferometry: an example from Mt Vesuvius, Italy. <i>Bulletin of Volcanology</i> , 1993, 55, 566-570.	3.0	16
54	Rafted pumice: A new model for the formation of the Medusae Fossae Formation, Mars. <i>Icarus</i> , 2020, 343, 113684.	2.5	16

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55	Geometry of Martian impact craters: First results from an interactive software package. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	15
56	Lavaâ€Rise Plateaus and Inflation Pits in the McCarty's Lava Flow Field, New Mexico: An Analog for PÃhoehoeâ€Like Lava Flows on Planetary Surfaces. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE005975.	3.6	15
57	Olympus Mons volcano, Mars: A photogeologic view and new insights. <i>Chemie Der Erde</i> , 2018, 78, 397-431.	2.0	12
58	Late-stage intrusive activity at Olympus Mons, Mars: Summit inflation and giant dike formation. <i>Icarus</i> , 2019, 319, 459-469.	2.5	11
59	Shallow and deep fresh impact craters in Hesperia Planum, Mars. <i>Earth, Moon and Planets</i> , 1993, 61, 1-20.	0.6	10
60	Cratering on Mars with almost no atmosphere or volatiles: Pangboche crater. <i>Meteoritics and Planetary Science</i> , 2015, 50, 51-62.	1.6	10
61	Possible sub-glacial eruptions in the Galaxias Quadrangle, Mars. <i>Icarus</i> , 2016, 267, 68-85.	2.5	9
62	Eruptive patterns and structure of Isla Fernandina, Galapagos Islands, from SPOT-1 HRV and large format camera images. <i>International Journal of Remote Sensing</i> , 1990, 11, 1501-1509.	2.9	8
63	Determination of Mars crater geometric data: Insights from highâ€resolution digital elevation models. <i>Meteoritics and Planetary Science</i> , 2018, 53, 726-740.	1.6	6
64	Acquisition of satellite data for volcano studies. <i>Geophysical Monograph Series</i> , 2000, , 9-24.	0.1	5
65	Extraterrestrial lava lakes. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 366, 74-95.	2.1	4
66	Temperature of an active lava channel from spectral measurements, Kilauea Volcano, Hawaii. <i>Bulletin of Volcanology</i> , 1994, 56, 297-301.	3.0	3
67	Martian volcanism: Current state of knowledge and known unknowns. <i>Chemie Der Erde</i> , 2022, 82, 125886.	2.0	3
68	Morphologic differences in radial grooves on martian layered (fluidized) ejecta: Implications for emplacement processes and conditions. <i>Icarus</i> , 2021, 366, 114513.	2.5	2
69	Planetary volcanism: Craters, lava flows, fissures, and insights into their formation from observations of the Aprilâ€August 2018 eruption of KÃlauea Volcano, Hawaiiâ€i. , 2022, , 77-114.		1
70	The Tharsis Province. , 2021, , 36-68.		0
71	The Elysium Province. , 2021, , 70-91.		0