

Lionel Wilson

List of Publications by Year in descending order

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163
papers

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citations

36303

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163
docs citations

163
times ranked

4092
citing authors

#	ARTICLE	IF	CITATIONS
1	Ascent and eruption of basaltic magma on the Earth and Moon. <i>Journal of Geophysical Research</i> , 1981, 86, 2971-3001.	3.3	642
2	Lunar mare volcanism: Stratigraphy, eruption conditions, and the evolution of secondary crusts. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 2155-2175.	3.9	399
3	Giant radiating dyke swarms on Earth and Venus. <i>Earth-Science Reviews</i> , 1995, 39, 1-58.	9.1	346
4	Mars: Review and analysis of volcanic eruption theory and relationships to observed landforms. <i>Reviews of Geophysics</i> , 1994, 32, 221.	23.0	313
5	Relationships between pressure, volatile content and ejecta velocity in three types of volcanic explosion. <i>Journal of Volcanology and Geothermal Research</i> , 1980, 8, 297-313.	2.1	302
6	Mechanisms and dynamics of strombolian activity. <i>Journal of the Geological Society</i> , 1976, 132, 429-440.	2.1	290
7	Explosive volcanic eruptions-IX. The transition between Hawaiian-style lava fountaining and Strombolian explosive activity. <i>Geophysical Journal International</i> , 1995, 121, 226-232.	2.4	218
8	Tarawera 1886, New Zealand – A basaltic plinian fissure eruption. <i>Journal of Volcanology and Geothermal Research</i> , 1984, 21, 61-78.	2.1	215
9	Factors controlling the lengths of channel-fed lava flows. <i>Bulletin of Volcanology</i> , 1994, 56, 108-120.	3.0	211
10	Volcanic processes and landforms on Venus: Theory, predictions, and observations. <i>Journal of Geophysical Research</i> , 1986, 91, 9407-9446.	3.3	205
11	Tharsis-radial graben systems as the surface manifestation of plume-related dike intrusion complexes: Models and implications. <i>Journal of Geophysical Research</i> , 2002, 107, 1-1.	3.3	205
12	A comparison of volcanic eruption processes on Earth, Moon, Mars, Io and Venus. <i>Nature</i> , 1983, 302, 663-669.	27.8	201
13	Basaltic pyroclastic eruptions: Influence of gas-release patterns and volume fluxes on fountain structure, and the formation of cinder cones, spatter cones, rootless flows, lava ponds and lava flows. <i>Journal of Volcanology and Geothermal Research</i> , 1989, 37, 261-271.	2.1	190
14	Deep submarine pyroclastic eruptions: theory and predicted landforms and deposits. <i>Journal of Volcanology and Geothermal Research</i> , 2003, 121, 155-193.	2.1	182
15	An integrated model of kimberlite ascent and eruption. <i>Nature</i> , 2007, 447, 53-57.	27.8	149
16	Generation, ascent and eruption of magma on the Moon: New insights into source depths, magma supply, intrusions and effusive/explosive eruptions (Part 2: Predicted emplacement processes and) <i>Tj ETQq0 0 0 rg25/Overlook10 Tf 50</i>		
17	Generation of recent massive water floods at Cerberus Fossae, Mars by dike emplacement, cryospheric cracking, and confined aquifer groundwater release. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	143
18	Vulcanian eruption mechanisms. <i>Nature</i> , 1979, 277, 440-443.	27.8	138

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19	The dispersal of pyroclasts from Apollinaris Patera, Mars: Implications for the origin of the Medusae Fossae Formation. <i>Icarus</i> , 2011, 216, 212-220.	2.5	134
20	Explosive volcanic eruptions on Mercury: Eruption conditions, magma volatile content, and implications for interior volatile abundances. <i>Earth and Planetary Science Letters</i> , 2009, 285, 263-271.	4.4	128
21	Generation, ascent and eruption of magma on the Moon: New insights into source depths, magma supply, intrusions and effusive/explosive eruptions (Part 1: Theory). <i>Icarus</i> , 2017, 283, 146-175.	2.5	124
22	Magma reservoirs and neutral buoyancy zones on Venus: Implications for the formation and evolution of volcanic landforms. <i>Journal of Geophysical Research</i> , 1992, 97, 3877-3903.	3.3	119
23	Photometric observations of Mercury from Mariner 10. <i>Journal of Geophysical Research</i> , 1975, 80, 2431-2443.	3.3	118
24	Geology and petrology of enormous volumes of impact melt on the Moon: A case study of the Orientale basin impact melt sea. <i>Icarus</i> , 2013, 223, 749-765.	2.5	114
25	Steep-sided domes on Venus: Characteristics, geologic setting, and eruption conditions from Magellan data. <i>Journal of Geophysical Research</i> , 1992, 97, 13445-13478.	3.3	113
26	The global distribution of pyroclastic deposits on Mercury: The view from MESSENGER flybys 1-3. <i>Planetary and Space Science</i> , 2011, 59, 1895-1909.	1.7	105
27	Lunar graben formation due to near-surface deformation accompanying dike emplacement. <i>Planetary and Space Science</i> , 1993, 41, 719-727.	1.7	103
28	Mid-ocean ridge eruptive vent morphology and substructure: Evidence for dike widths, eruption rates, and evolution of eruptions and axial volcanic ridges. <i>Journal of Geophysical Research</i> , 1996, 101, 28265-28280.	3.3	102
29	Mars outflow channels: A reappraisal of the estimation of water flow velocities from water depths, regional slopes, and channel floor properties. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	102
30	Fractional melting and smelting on the ureilite parent body. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 2876-2895.	3.9	100
31	Explosive volcanism on Hecates Tholus, Mars: Investigation of eruption conditions. <i>Journal of Geophysical Research</i> , 1982, 87, 9890-9904.	3.3	97
32	Consequences of explosive eruptions on small Solar System bodies: the case of the missing basalts on the aubrite parent body. <i>Earth and Planetary Science Letters</i> , 1991, 104, 505-512.	4.4	93
33	Origin and history of ureilitic material in the solar system: The view from asteroid 2008 TC ₃ and the Almahata Sitta meteorite. <i>Meteoritics and Planetary Science</i> , 2015, 50, 782-809.	1.6	92
34	Lava fountain heights at Pu'u 'O'o, Kilauea, Hawaii: Indicators of amount and variations of exsolved magma volatiles. <i>Journal of Geophysical Research</i> , 1987, 92, 13715-13719.	3.3	91
35	Young lunar mare basalts in the Chang'e-5 sample return region, northern Oceanus Procellarum. <i>Earth and Planetary Science Letters</i> , 2021, 555, 116702.	4.4	88
36	The dispersal of pyroclasts from ancient explosive volcanoes on Mars: Implications for the friable layered deposits. <i>Icarus</i> , 2012, 219, 358-381.	2.5	82

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37	Evidence for episodicity in the magma supply to the large Tharsis volcanoes. <i>Journal of Geophysical Research</i> , 2001, 106, 1423-1433.	3.3	81
38	Explosive volcanic eruptions on Mars: Tephra and accretionary lapilli formation, dispersal and recognition in the geologic record. <i>Journal of Volcanology and Geothermal Research</i> , 2007, 163, 83-97.	2.1	81
39	Lunar Gruithuisen and Mairan domes: Rheology and mode of emplacement. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	79
40	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
41	Lunar floor-fractured craters as magmatic intrusions: Geometry, modes of emplacement, associated tectonic and volcanic features, and implications for gravity anomalies. <i>Icarus</i> , 2015, 248, 424-447.	2.5	71
42	Thermal evolution and physics of melt extraction on the ureilite parent body. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 6154-6176.	3.9	70
43	The Huygens-Hellas giant dike system on Mars: Implications for Late Noachian–Early Hesperian volcanic resurfacing and climatic evolution. <i>Geology</i> , 2006, 34, 285.	4.4	68
44	Volumetric characteristics of lava flows from interferometric radar and multispectral satellite data: the 1995 Fernandina and 1998 Cerro Azul eruptions in the western Galapagos. <i>Bulletin of Volcanology</i> , 2003, 65, 311-330.	3.0	62
45	"Nature of local magma storage zones and geometry of conduit systems below basaltic eruption sites: Pu'u 'O 'o, Kilauea East Rift, Hawaii, Example". <i>Journal of Geophysical Research</i> , 1988, 93, 14785-14792.	3.3	61
46	Origin of lunar sinuous rilles: Modeling effects of gravity, surface slope, and lava composition on erosion rates during the formation of Rima Prinz. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	58
47	Volcanic activity on differentiated asteroids: A review and analysis. <i>Chemie Der Erde</i> , 2012, 72, 289-321.	2.0	58
48	Emplacement of giant radial dikes in the northern Tharsis region of Mars. <i>Journal of Geophysical Research</i> , 2002, 107, 3-1.	3.3	57
49	Absence of large shield volcanoes and calderas on the Moon: Consequence of magma transport phenomena?. <i>Geophysical Research Letters</i> , 1991, 18, 2121-2124.	4.0	55
50	Heat transfer in volcano–ice interactions on Mars: synthesis of environments and implications for processes and landforms. <i>Annals of Glaciology</i> , 2007, 45, 1-13.	1.4	54
51	The 1983–86 Pu'u 'O'o eruption of Kilauea Volcano, Hawaii: a study of dike geometry and eruption mechanisms for a long-lived eruption. <i>Journal of Volcanology and Geothermal Research</i> , 1994, 59, 179-205.	2.1	53
52	Evidence for a massive phreatomagmatic eruption in the initial stages of formation of the Mangala Valles outflow channel, Mars. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	52
53	Origin of small pits in martian impact craters. <i>Icarus</i> , 2012, 221, 262-275.	2.5	51
54	Explosive volcanism and the compositions of cores of differentiated asteroids. <i>Earth and Planetary Science Letters</i> , 1993, 117, 111-124.	4.4	50

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55	Dynamics of a confined lava flow on Kilauea volcano, Hawaii. <i>Bulletin of Volcanology</i> , 1989, 51, 415-432.	3.0	49
56	Volcanism in the Solar System. <i>Nature Geoscience</i> , 2009, 2, 389-397.	12.9	49
57	Eruption of magmatic foams on the Moon: Formation in the waning stages of dike emplacement events as an explanation of "irregular mare patches". <i>Journal of Volcanology and Geothermal Research</i> , 2017, 335, 113-127.	2.1	49
58	Cooling rates of hyaloclastites: applications of relaxation geospeedometry to undersea volcanic deposits. <i>Bulletin of Volcanology</i> , 2000, 61, 527-536.	3.0	47
59	Phreatomagmatic explosive origin of Hrad Vallis, Mars. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	47
60	High-temperature mass spectrometric degassing of enstatite chondrites: Implications for pyroclastic volcanism on the aubrite parent body. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 4267-4280.	3.9	46
61	Magnetic signature of the lunar South Pole-Aitken basin: Character, origin, and age. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	46
62	A Plinian treatment of fallout from Hawaiian lava fountains. <i>Journal of Volcanology and Geothermal Research</i> , 1999, 88, 67-75.	2.1	44
63	Dark ring in southwestern Orientale Basin: Origin as a single pyroclastic eruption. <i>Journal of Geophysical Research</i> , 2002, 107, 1-1.	3.3	44
64	Ina pit crater on the Moon: Extrusion of waning-stage lava lake magmatic foam results in extremely young crater retention ages. <i>Geology</i> , 2017, 45, 455-458.	4.4	44
65	Controls on Lunar Basaltic Volcanic Eruption Structure and Morphology: Gas Release Patterns in Sequential Eruption Phases. <i>Geophysical Research Letters</i> , 2018, 45, 5852-5859.	4.0	44
66	Volcanic eruptions and intrusions on the asteroid 4 Vesta. <i>Journal of Geophysical Research</i> , 1996, 101, 18927-18940.	3.3	43
67	The internal structures and densities of asteroids. <i>Meteoritics and Planetary Science</i> , 1999, 34, 479-483.	1.6	43
68	Analysis of active volcanoes from the earth observing system. <i>Remote Sensing of Environment</i> , 1991, 36, 1-12.	11.0	40
69	The formation of perched lava ponds on basaltic volcanoes: the influence of flow geometry on cooling-limited lava flow lengths. <i>Journal of Volcanology and Geothermal Research</i> , 1993, 56, 113-123.	2.1	40
70	Eruption of lava flows on Europa: Theory and application to Thrace Macula. <i>Journal of Geophysical Research</i> , 1997, 102, 9263-9272.	3.3	40
71	Heat transfer and melting in subglacial basaltic volcanic eruptions: implications for volcanic deposit morphology and meltwater volumes. <i>Geological Society Special Publication</i> , 2002, 202, 5-26.	1.3	40
72	Deep generation of magmatic gas on the Moon and implications for pyroclastic eruptions. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	40

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73	Volcano-ice interactions in the Arsia Mons tropical mountain glacier deposits. <i>Icarus</i> , 2014, 237, 315-339.	2.5	40
74	Explosive volcanism on Mercury: Analysis of vent and deposit morphology and modes of eruption. <i>Icarus</i> , 2018, 302, 191-212.	2.5	40
75	Mars: a review and synthesis of general environments and geological settings of magma-H ₂ O interactions. <i>Geological Society Special Publication</i> , 2002, 202, 27-57.	1.3	39
76	The fate of pyroclasts produced in explosive eruptions on the asteroid 4 Vesta. <i>Meteoritics and Planetary Science</i> , 1997, 32, 813-823.	1.6	38
77	MANGALA VALLES, MARS: ASSESSMENT OF EARLY STAGES OF FLOODING AND DOWNSTREAM FLOOD EVOLUTION. <i>Earth, Moon and Planets</i> , 2005, 96, 1-57.	0.6	38
78	Formation of Mangala Valles outflow channel, Mars: Morphological development and water discharge and duration estimates. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	38
79	Lava fountains from the 1999 Tvashtar Catena fissure eruption on Io: Implications for dike emplacement mechanisms, eruption rates, and crustal structure. <i>Journal of Geophysical Research</i> , 2001, 106, 32997-33004.	3.3	37
80	Volcanism on the Marius Hills plateau: Observational analyses using Clementine multispectral data. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	37
81	Heat transfer in volcano-ice interactions on Earth. <i>Annals of Glaciology</i> , 2007, 45, 83-86.	1.4	37
82	Formation of Aromatum Chaos, Mars: Morphological development as a result of volcano-ice interactions. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	36
83	Fissure eruptions in Tharsis, Mars: Implications for eruption conditions and magma sources. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 185, 28-46.	2.1	36
84	Volcanism on Mercury: A new model for the history of magma ascent and eruption. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	34
85	Numerical Modeling of Ejecta Dispersal from Transient Volcanic Explosions on Mars. <i>Icarus</i> , 1996, 123, 284-295.	2.5	33
86	Plinian eruptions and passive collapse events as mechanisms of formation for Martian pit chain craters. <i>Journal of Geophysical Research</i> , 2002, 107, 4-1.	3.3	32
87	Formation of Ravi Vallis outflow channel, Mars: Morphological development, water discharge, and duration estimates. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	32
88	An igneous origin for Rima Hyginus and Hyginus crater on the Moon. <i>Icarus</i> , 2011, 215, 584-595.	2.5	31
89	Rethinking Lunar Mare Basalt Regolith Formation: New Concepts of Lava Flow Protolith and Evolution of Regolith Thickness and Internal Structure. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088334.	4.0	31
90	The role of substrate characteristics in producing anomalously young crater retention ages in volcanic deposits on the Moon: Morphology, topography, subresolution roughness, and mode of emplacement of the Sosigenes lunar irregular mare patch. <i>Meteoritics and Planetary Science</i> , 2018, 53, 778-812.	1.6	30

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91	The heartbeat of the volcano: The discovery of episodic activity at Prometheus on Io. <i>Icarus</i> , 2006, 184, 460-477.	2.5	29
92	Model for the origin, ascent, and eruption of lunar picritic magmas. <i>American Mineralogist</i> , 2017, 102, 2045-2053.	1.9	29
93	Lunar floor-fractured craters: Modes of dike and sill emplacement and implications of gas production and intrusion cooling on surface morphology and structure. <i>Icarus</i> , 2018, 305, 105-122.	2.5	29
94	Experimental evidence for lava-like mud flows under Martian surface conditions. <i>Nature Geoscience</i> , 2020, 13, 403-407.	12.9	29
95	Density structure of Io and the migration of magma through its lithosphere. <i>Journal of Geophysical Research</i> , 2001, 106, 32983-32995.	3.3	28
96	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
97	Dynamics of a fluid flow on Mars: Lava or mud?. <i>Icarus</i> , 2014, 233, 268-280.	2.5	26
98	Sources of water for the outflow channels on Mars: Implications of the Late Noachian "icy highlands" model for melting and groundwater recharge on the Tharsis rise. <i>Planetary and Space Science</i> , 2015, 108, 54-65.	1.7	26
99	Volcanic input to the atmosphere from Alba Patera on Mars. <i>Nature</i> , 1987, 330, 354-357.	27.8	25
100	Firn densification in a Late Noachian "icy highlands" Mars: Implications for ice sheet evolution and thermal response. <i>Icarus</i> , 2015, 253, 243-255.	2.5	25
101	Volcanically Induced Transient Atmospheres on the Moon: Assessment of Duration, Significance, and Contributions to Polar Volatile Traps. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089509.	4.0	25
102	Magma vesiculation and pyroclastic volcanism on Venus. <i>Icarus</i> , 1982, 52, 365-372.	2.5	24
103	The geothermal gradient of Io: Consequences for lithosphere structure and volcanic eruptive activity. <i>Icarus</i> , 2011, 211, 623-635.	2.5	23
104	Observational constraints on the identification of shallow lunar magmatism: Insights from floor-fractured craters. <i>Icarus</i> , 2017, 283, 224-231.	2.5	23
105	Remote sensing of volcanos and volcanic terrains. <i>Eos</i> , 1989, 70, 1567.	0.1	22
106	The relationship between the height of a volcano and the depth to its magma source zone: A critical reexamination. <i>Geophysical Research Letters</i> , 1992, 19, 1395-1398.	4.0	22
107	Evidence for a sill emplacement event on the upper flanks of the Ascreaus Mons shield volcano, Mars. <i>Journal of Geophysical Research</i> , 1999, 104, 27079-27089.	3.3	22
108	The Long Sinuous Rille System in Northern Oceanus Procellarum and Its Relation to the Chang'e-5 Returned Samples. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092663.	4.0	22

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109	The effect of atmospheric pressure on the dispersal of pyroclasts from martian volcanoes. <i>Icarus</i> , 2013, 223, 149-156.	2.5	21
110	Geological Characterization of the Ina Shield Volcano Summit Pit Crater on the Moon: Evidence for Extrusion of Waning-Stage Lava Lake Magmatic Foams and Anomalously Young Crater Retention Ages. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1100-1140.	3.6	21
111	Factors controlling the lengths of channel-fed lava flows. <i>Bulletin of Volcanology</i> , 1994, 56, 108-120.	3.0	21
112	Clast sizes of ejecta from explosive eruptions on asteroids: implications for the fate of the basaltic products of differentiation. <i>Earth and Planetary Science Letters</i> , 1996, 140, 191-200.	4.4	20
113	A pyroclastic flow deposit on Venus. <i>Geological Society Special Publication</i> , 2015, 401, 97-106.	1.3	20
114	Lava heating and loading of ice sheets on early Mars: Predictions for meltwater generation, groundwater recharge, and resulting landforms. <i>Icarus</i> , 2016, 271, 237-264.	2.5	20
115	GRAIL-identified gravity anomalies in Oceanus Procellarum: Insight into subsurface impact and magmatic structures on the Moon. <i>Icarus</i> , 2019, 331, 192-208.	2.5	20
116	Clast sizes in terrestrial and Martian ignimbrite lag deposits. <i>Journal of Geophysical Research</i> , 1990, 95, 17309-17314.	3.3	19
117	Explosive volcanism on Venus: Transient volcanic explosions as a mechanism for localized pyroclast dispersal. <i>Journal of Geophysical Research</i> , 1995, 100, 26327.	3.3	19
118	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
119	The transport and eruption of magma from volcanoes: A review. <i>Contemporary Physics</i> , 2002, 43, 197-210.	1.8	18
120	Newly Discovered Ring-Moat Dome Structures in the Lunar Maria: Possible Origins and Implications. <i>Geophysical Research Letters</i> , 2017, 44, 9216-9224.	4.0	18
121	Lunar Irregular Mare Patches: Classification, Characteristics, Geologic Settings, Updated Catalog, Origin, and Outstanding Questions. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006362.	3.6	18
122	Pyroclast loss or retention during explosive volcanism on asteroids: Influence of asteroid size and gas content of melt. <i>Meteoritics and Planetary Science</i> , 2010, 45, 1284-1301.	1.6	17
123	A composite Fe,Ni-FeS and enstatite-forsterite-diopside-glass vitrophyre clast in the Larkman Nunatak 04316 aubrite: Origin by pyroclastic volcanism. <i>Meteoritics and Planetary Science</i> , 2011, 46, 1719-1741.	1.6	17
124	Large-scale lava-ice interactions on Mars: Investigating its role during Late Amazonian Central Elysium Planitia volcanism and the formation of Athabasca Valles. <i>Planetary and Space Science</i> , 2018, 158, 96-109.	1.7	17
125	A model for large-scale volcanic plumes on Io: Implications for eruption rates and interactions between magmas and near-surface volatiles. <i>Journal of Geophysical Research</i> , 2002, 107, 19-1-19-12.	3.3	16
126	Dynamics of the ascent and eruption of water containing dissolved CO ₂ on Mars. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	16

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127	MERC: a fortran iv program for the production of topographic data for the planet mercury. Computers and Geosciences, 1981, 7, 35-45.	4.2	15
128	Meteoritic and other constraints on the internal structure and impact history of small asteroids. Icarus, 2005, 174, 46-53.	2.5	15
129	Formation of Mangala Fossa, the source of the Mangala Valles, Mars: Morphological development as a result of volcano-cryosphere interactions. Journal of Geophysical Research, 2007, 112, .	3.3	15
130	A theoretical model for the formation of Ring Moat Dome Structures: Products of second boiling in lunar basaltic lava flows. Journal of Volcanology and Geothermal Research, 2019, 374, 160-180.	2.1	15
131	Volcanic history, geologic analysis and map of the Prometheus Patera region on Io. Journal of Volcanology and Geothermal Research, 2009, 187, 93-105.	2.1	14
132	Comment on "Parent body depth-pressure-temperature relationships and the style of the ureilite anatisis" by P. H. Warren (MAPS 47:209-227). Meteoritics and Planetary Science, 2013, 48, 1096-1106.	1.6	14
133	Formation and dispersal of pyroclasts on the Moon: Indicators of lunar magma volatile contents. Journal of Volcanology and Geothermal Research, 2021, 413, 107217.	2.1	14
134	The initial responses of hot liquid water released under low atmospheric pressures: Experimental insights. Icarus, 2010, 210, 488-506.	2.5	13
135	Discovery of a Powerful, Transient, Explosive Thermal Event at Marduk Fluctus, Io, in <i>Galileo</i> NIMS Data. Geophysical Research Letters, 2018, 45, 2926-2933.	4.0	13
136	Glaciovolcanism in the Tharsis volcanic province of Mars: Implications for regional geology and hydrology. Planetary and Space Science, 2019, 169, 45-69.	1.7	13
137	Ring-Moat Dome Structures (RMDSs) in the Lunar Maria: Statistical, Compositional, and Morphological Characterization and Assessment of Theories of Origin. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE005967.	3.6	13
138	Formation of outflow channels on Mars: Testing the origin of Reull Vallis in Hesperia Planum by large-scale lava-ice interactions and top-down melting. Icarus, 2018, 305, 56-79.	2.5	12
139	The Cauchy 5 Small, Low-Volume Lunar Shield Volcano: Evidence for Volatile Exsolution Eruption Patterns and Type 1/Type 2 Hybrid Irregular Mare Patch Formation. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006171.	3.6	11
140	Did the Alba Patera and Syria Planum regions of Mars lose their lithospheric roots in convective overturn events?. Journal of Geophysical Research, 2003, 108, .	3.3	9
141	Cooling process recorded in subglacially erupted rhyolite glasses: Rapid quenching, thermal buffering, and the formation of meltwater. Journal of Geophysical Research, 2004, 109, .	3.3	9
142	Possible sub-glacial eruptions in the Galaxias Quadrangle, Mars. Icarus, 2016, 267, 68-85.	2.5	9
143	The Lunar Mare Ring-Moat Dome Structure (RMDS) Age Conundrum: Contemporaneous With Imbrian-Aged Host Lava Flows or Emplaced in the Copernican?. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006880.	3.6	9
144	Wilson & Head reply. Nature, 2007, 450, E22-E22.	27.8	8

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145	Assessing the formation of valley networks on a cold early Mars: Predictions for erosion rates and channel morphology. <i>Icarus</i> , 2019, 321, 216-231.	2.5	8
146	The influences of planetary environments on the eruption styles of volcanoes. <i>New Astronomy Reviews</i> , 1984, 27, 333-360.	0.3	6
147	Moon and Mercury. , 2000, , 143-178.		6
148	Vent geometry and eruption conditions of the mixed rhyoliteâ€“basalt Ñĩshraun lava flow, Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2007, 164, 127-141.	2.1	6
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