

Ernst Hauber

List of Publications by Year in descending order

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187
papers

10,470
citations

34076

52
h-index

36008

97
g-index

227
all docs

227
docs citations

227
times ranked

4659
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Mineralogical and Aqueous Mars History Derived from OMEGA/Mars Express Data. <i>Science</i> , 2006, 312, 400-404.	6.0	1,395
2	Phyllosilicates on Mars and implications for early martian climate. <i>Nature</i> , 2005, 438, 623-627.	13.7	825
3	Recent and episodic volcanic and glacial activity on Mars revealed by the High Resolution Stereo Camera. <i>Nature</i> , 2004, 432, 971-979.	13.7	433
4	The high-resolution stereo camera (HRSC) experiment on Mars Express: Instrument aspects and experiment conduct from interplanetary cruise through the nominal mission. <i>Planetary and Space Science</i> , 2007, 55, 928-952.	0.9	391
5	Habitability on Early Mars and the Search for Biosignatures with the ExoMars Rover. <i>Astrobiology</i> , 2017, 17, 471-510.	1.5	371
6	Tropical to mid-latitude snow and ice accumulation, flow and glaciation on Mars. <i>Nature</i> , 2005, 434, 346-351.	13.7	352
7	Evidence from the Mars Express High Resolution Stereo Camera for a frozen sea close to Mars' equator. <i>Nature</i> , 2005, 434, 352-356.	13.7	201
8	Outgassing History and Escape of the Martian Atmosphere and Water Inventory. <i>Space Science Reviews</i> , 2013, 174, 113-154.	3.7	159
9	Working models for spatial distribution and level of Mars' seismicity. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	149
10	Stratigraphy in the Mawrth Vallis region through OMEGA, HRSC color imagery and DTM. <i>Icarus</i> , 2010, 205, 396-418.	1.1	146
11	Volcanic outgassing of CO ₂ and H ₂ O on Mars. <i>Earth and Planetary Science Letters</i> , 2011, 308, 391-400.	1.8	139
12	Sequence of infilling events in Gale Crater, Mars: Results from morphology, stratigraphy, and mineralogy. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 2439-2473.	1.5	139
13	Very recent and wide-spread basaltic volcanism on Mars. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	129
14	The High Resolution Stereo Camera (HRSC) of Mars Express and its approach to science analysis and mapping for Mars and its satellites. <i>Planetary and Space Science</i> , 2016, 126, 93-138.	0.9	128
15	Long-Term Evolution of the Martian Crust-Mantle System. <i>Space Science Reviews</i> , 2013, 174, 49-111.	3.7	124
16	Hydrovolcanic tuff rings and cones as indicators for phreatomagmatic explosive eruptions on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1656-1675.	1.5	124
17	Deposition and degradation of a volatile-rich layer in Utopia Planitia and implications for climate history on Mars. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	116
18	Large-scale spring deposits on Mars?. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	115

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19	Evolution and depositional environments of the Eberswalde fan delta, Mars. <i>Icarus</i> , 2008, 197, 429-451.	1.1	111
20	The Colour and Stereo Surface Imaging System (CaSSIS) for the ExoMars Trace Gas Orbiter. <i>Space Science Reviews</i> , 2017, 212, 1897-1944.	3.7	111
21	The topography and morphology of low shields and associated landforms of plains volcanism in the Tharsis region of Mars. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 185, 69-95.	0.8	107
22	Geology of the InSight landing site on Mars. <i>Nature Communications</i> , 2020, 11, 1014.	5.8	107
23	Evidence for very recent melt-water and debris flow activity in gullies in a young mid-latitude crater on Mars. <i>Icarus</i> , 2014, 235, 37-54.	1.1	103
24	The origin and timing of fluvial activity at Eberswalde crater, Mars. <i>Icarus</i> , 2012, 220, 530-551.	1.1	89
25	Quantitative Assessments of the Martian Hydrosphere. <i>Space Science Reviews</i> , 2013, 174, 155-212.	3.7	88
26	Martian rifts: Structural geology and geophysics. <i>Earth and Planetary Science Letters</i> , 2010, 294, 393-410.	1.8	86
27	Geophysical Constraints on the Evolution of Mars. <i>Space Science Reviews</i> , 2001, 96, 231-262.	3.7	83
28	A unique volcanic field in Tharsis, Mars: Pyroclastic cones as evidence for explosive eruptions. <i>Icarus</i> , 2012, 218, 88-99.	1.1	81
29	Discovery of a flank caldera and very young glacial activity at Hecates Tholus, Mars. <i>Nature</i> , 2005, 434, 356-361.	13.7	80
30	The BepiColombo Laser Altimeter (BELA): Concept and baseline design. <i>Planetary and Space Science</i> , 2007, 55, 1398-1413.	0.9	80
31	Noachian–Hesperian geologic history of the Echus Chasma and Kasei Valles system on Mars: New data and interpretations. <i>Earth and Planetary Science Letters</i> , 2010, 294, 256-271.	1.8	79
32	Extensive surface pedogenic alteration of the Martian Noachian crust suggested by plateau phyllosilicates around Valles Marineris. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	79
33	Lava flow rheology: A comparison of morphological and petrological methods. <i>Earth and Planetary Science Letters</i> , 2013, 384, 109-120.	1.8	79
34	Geology and Physical Properties Investigations by the InSight Lander. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	77
35	Geomorphic evidence for former lobate debris aprons at low latitudes on Mars: Indicators of the Martian paleoclimate. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	76
36	Amazonian geologic history of the Echus Chasma and Kasei Valles system on Mars: New data and interpretations. <i>Earth and Planetary Science Letters</i> , 2010, 294, 238-255.	1.8	75

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37	Asynchronous formation of Hesperian and Amazonian-aged deltas on Mars and implications for climate. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1529-1544.	1.5	72
38	Surface morphology of fans in the high-Arctic periglacial environment of Svalbard: Controls and processes. <i>Earth-Science Reviews</i> , 2015, 146, 163-182.	4.0	72
39	Interpretation and analysis of planetary structures. <i>Journal of Structural Geology</i> , 2010, 32, 855-875.	1.0	71
40	Mapping the mesospheric CO ₂ clouds on Mars: MEx/OMEGA and MEx/HRSC observations and challenges for atmospheric models. <i>Icarus</i> , 2010, 209, 452-469.	1.1	71
41	Mechanical modeling of thrust faults in the Thaumasia region, Mars, and implications for the Noachian heat flux. <i>Icarus</i> , 2007, 186, 517-526.	1.1	69
42	Thermokarst in Siberian ice-rich permafrost: Comparison to asymmetric scalloped depressions on Mars. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	69
43	Sedimentary deposits in Xanthe Terra: Implications for the ancient climate on Mars. <i>Planetary and Space Science</i> , 2009, 57, 944-957.	0.9	66
44	Palaeoflow reconstruction from fan delta morphology on Mars. <i>Earth and Planetary Science Letters</i> , 2010, 294, 378-392.	1.8	66
45	Polygon pattern geomorphometry on Svalbard (Norway) and western Utopia Planitia (Mars) using high-resolution stereo remote-sensing data. <i>Geomorphology</i> , 2011, 134, 197-216.	1.1	64
46	Quantifying geological processes on Mars—Results of the high resolution stereo camera (HRSC) on Mars express. <i>Planetary and Space Science</i> , 2015, 112, 53-97.	0.9	63
47	Distribution and evolution of scalloped terrain in the southern hemisphere, Mars. <i>Icarus</i> , 2010, 206, 691-706.	1.1	62
48	Spatial and alignment analyses for a field of small volcanic vents south of Pavonis Mons and implications for the Tharsis province, Mars. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 185, 96-102.	0.8	60
49	Interior channels in Martian valleys: Constraints on fluvial erosion by measurements of the Mars Express High Resolution Stereo Camera. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	59
50	High heat flux on ancient Mars: Evidence from rift flank uplift at Coracis Fossae. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	59
51	Geological Processes and Evolution. <i>Space Science Reviews</i> , 2001, 96, 263-292.	3.7	58
52	The PanCam Instrument for the ExoMars Rover. <i>Astrobiology</i> , 2017, 17, 511-541.	1.5	55
53	Periglacial mass-wasting landforms on Mars suggestive of transient liquid water in the recent past: Insights from solifluction lobes on Svalbard. <i>Icarus</i> , 2012, 218, 489-505.	1.1	50
54	Tempe Fossae, Mars: A planetary analogon to a terrestrial continental rift?. <i>Journal of Geophysical Research</i> , 2001, 106, 20587-20602.	3.3	48

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55	Morphology, stratigraphy, and mineralogical composition of a layered formation covering the plateaus around Valles Marineris, Mars: Implications for its geological history. <i>Icarus</i> , 2010, 208, 684-703.	1.1	48
56	The Mawrth Vallis Region of Mars: A Potential Landing Site for the Mars Science Laboratory (MSL) Mission. <i>Astrobiology</i> , 2010, 10, 687-703.	1.5	48
57	A 20-year record (1998â€“2017) of permafrost, active layer and meteorological conditions at a high Arctic permafrost research site (Bayelva, Spitsbergen). <i>Earth System Science Data</i> , 2018, 10, 355-390.	3.7	47
58	Landscape evolution in Martian mid-latitude regions: insights from analogous periglacial landforms in Svalbard. <i>Geological Society Special Publication</i> , 2011, 356, 111-131.	0.8	46
59	Dust devils on Mars observed by the High Resolution Stereo Camera. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	44
60	Regional differences in gully occurrence on Mars: A comparison between the Hale and Bond craters. <i>Planetary and Space Science</i> , 2009, 57, 958-974.	0.9	44
61	Valleys, paleolakes and possible shorelines at the Libya Montes/Isidis boundary: Implications for the hydrologic evolution of Mars. <i>Icarus</i> , 2012, 219, 393-413.	1.1	43
62	Geological evolution of the Tyras Vallis paleolacustrine system, Mars. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	42
63	Earth-like aqueous debris-flow activity on Mars at high orbital obliquity in the last million years. <i>Nature Communications</i> , 2015, 6, 7543.	5.8	42
64	Erosion by flowing Martian lava: New insights for Hecates Tholus from Mars Express and MER data. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	40
65	Ferric oxides in East Candor Chasma, Valles Marineris (Mars) inferred from analysis of OMEGA/Mars Express data: Identification and geological interpretation. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	40
66	Stratigraphy and structure of interior layered deposits in west Candor Chasma, Mars, from High Resolution Stereo Camera (HRSC) stereo imagery and derived elevations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	40
67	Scoria cones on Mars: Detailed investigation of morphometry based on high-resolution digital elevation models. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 1512-1527.	1.5	40
68	Modeling volcanic deformation in a regional stress field: Implications for the formation of graben structures on Alba Patera, Mars. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	39
69	Acheron Fossae, Mars: Tectonic rifting, volcanism, and implications for lithospheric thickness. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	39
70	Geomorphologic Evidence for Liquid Water. <i>Space Science Reviews</i> , 2001, 96, 333-364.	3.7	38
71	Olympus Mons, Mars: Inferred changes in late Amazonian aged effusive activity from lava flow mapping of Mars Express High Resolution Stereo Camera data. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	38
72	The imaging performance of the SRC on Mars Express. <i>Planetary and Space Science</i> , 2008, 56, 473-491.	0.9	38

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73	The large Thaumasia graben on Mars: Is it a rift?. Journal of Geophysical Research, 2005, 110, .	3.3	37
74	Interior layered deposits within a perched basin, southern Coprates Chasma, Mars: Evidence for their formation, alteration, and erosion. Journal of Geophysical Research, 2011, 116, .	3.3	36
75	Habitable periglacial landscapes in martian mid-latitudes. Icarus, 2012, 219, 345-357.	1.1	36
76	Planetary Protection and Mars Special Regionsâ€”A Suggestion for Updating the Definition. Astrobiology, 2016, 16, 119-125.	1.5	36
77	Groundwater seepage landscapes from distant and local sources in experiments and on Mars. Earth Surface Dynamics, 2015, 3, 389-408.	1.0	35
78	Amazonian volcanism inside Valles Marineris on Mars. Earth and Planetary Science Letters, 2017, 473, 122-130.	1.8	33
79	Mercury's surface and composition to be studied by BepiColombo. Planetary and Space Science, 2010, 58, 21-39.	0.9	31
80	Morphological evidence for geologically young thaw of ice on Mars: A review of recent studies using high-resolution imaging data. Progress in Physical Geography, 2013, 37, 289-324.	1.4	31
81	Local late Amazonian boulder breakdown and denudation rate on Mars. Geophysical Research Letters, 2013, 40, 3527-3531.	1.5	31
82	Concatenation of HRSC colour and OMEGA data for the determination and 3D-parameterization of high-altitude CO2 clouds in the Martian atmosphere. Planetary and Space Science, 2010, 58, 1207-1214.	0.9	30
83	Experimental evidence for lava-like mud flows under Martian surface conditions. Nature Geoscience, 2020, 13, 403-407.	5.4	29
84	Ages of rampart craters in equatorial regions on Mars: Implications for the past and present distribution of ground ice. Meteoritics and Planetary Science, 2006, 41, 1437-1452.	0.7	28
85	A steep fan at Coprates Catena, Valles Marineris, Mars, as seen by HRSC data. Geophysical Research Letters, 2006, 33, .	1.5	28
86	Shape of scoria cones on Mars: Insights from numerical modeling of ballistic pathways. Earth and Planetary Science Letters, 2014, 406, 14-23.	1.8	28
87	Sedimentological analyses of martian gullies: The subsurface as the key to the surface. Icarus, 2015, 258, 92-108.	1.1	28
88	Subsurface Sediment Mobilization in the Southern Chryse Planitia on Mars. Journal of Geophysical Research E: Planets, 2019, 124, 703-720.	1.5	27
89	Morphology and geological structure of the western part of the Olympus Mons volcano on Mars from the analysis of the Mars Express HRSC imagery. Solar System Research, 2005, 39, 85-101.	0.3	26
90	Grid-based mapping: A method for rapidly determining the spatial distributions of small features over very large areas. Planetary and Space Science, 2017, 140, 49-61.	0.9	26

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91	Amazonian-aged fluvial system and associated ice-related features in Terra Cimmeria, Mars. <i>Icarus</i> , 2016, 277, 286-299.	1.1	25
92	Terrestrial gullies and debris-flow tracks on Svalbard as planetary analogs for Mars. , 2011, , .		24
93	An Impact Crater Origin for the InSight Landing Site at Homestead Hollow, Mars: Implications for Near Surface Stratigraphy, Surface Processes, and Erosion Rates. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006333.	1.5	24
94	Hydrological and sedimentary analyses of well-preserved paleofluvial-paleolacustrine systems at Moa Valles, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 194-232.	1.5	23
95	Grid Mapping the Northern Plains of Mars: A New Overview of Recent Water- and Ice-Related Landforms in Acidalia Planitia. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 454-482.	1.5	23
96	Vortex-Dominated Aeolian Activity at InSight's Landing Site, Part 1: Multi-Instrument Observations, Analysis, and Implications. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006757.	1.5	23
97	Unveiling the origin of radial grabens on Alba Patera volcano by finite element modelling. <i>Icarus</i> , 2005, 176, 44-56.	1.1	22
98	A structural study of an interior layered deposit in southwestern Candor Chasma, Valles Marineris, Mars, using high resolution stereo camera data from Mars Express. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	22
99	Structural analysis of interior layered deposits in Northern Coprates Chasma, Mars. <i>Earth and Planetary Science Letters</i> , 2010, 294, 343-356.	1.8	22
100	Grid Mapping the Northern Plains of Mars: Using Morphotype and Distribution of Ice-Related Landforms to Understand Multiple Ice-Rich Deposits in Utopia Planitia. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 483-503.	1.5	22
101	High-resolution, digital photogrammetric mapping: A tool for Earth science. <i>Eos</i> , 2000, 81, 513.	0.1	20
102	Degradation of <i>Homestead Hollow</i> at the <i>InSight</i> Landing Site Based on the Distribution and Properties of Local Deposits. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006350.	1.5	20
103	Stratigraphic Relationships in Jezero Crater, Mars: Constraints on the Timing of Fluvial-Lacustrine Activity From Orbital Observations. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006840.	1.5	20
104	Geometry and Segmentation of Cerberus Fossae, Mars: Implications for Marsquake Properties. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	20
105	Stratigraphy and mineralogy of Candor Mensa, West Candor Chasma, Mars: Insights into the geologic history of Valles Marineris. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 331-354.	1.5	19
106	Pressurized groundwater outflow experiments and numerical modeling for outflow channels on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 2668-2693.	1.5	19
107	Evidence for Amazonian highly viscous lavas in the southern highlands on Mars. <i>Earth and Planetary Science Letters</i> , 2015, 415, 200-212.	1.8	19
108	Valles Marineris tectonic and volcanic history inferred from dikes in eastern Coprates Chasma. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 1353-1371.	1.5	18

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109	iMARS <i>Phase 2</i>. <i>Astrobiology</i> , 2018, 18, S-1-S-131.	1.5	18
110	Limits on the burial depth of glacial ice deposits on the flanks of Hecates Tholus, Mars. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	17
111	Coldâ€climate modification of Martian landscapes: A case study of a spatulate debris landform in the Hellas Montes Region, Mars. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	17
112	Lineated valley fill at the Martian dichotomy boundary: Nature and history of degradation. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	17
113	Periglacial landscapes on Svalbard: Terrestrial analogs for cold-climate landforms on Mars. , 2011, , .		17
114	The Boulder Population of Asteroid 4 Vesta: Sizeâ€Frequency Distribution and Survival Time. <i>Earth and Space Science</i> , 2021, 8, e2019EA000941.	1.1	17
115	In Situ and Orbital Stratigraphic Characterization of the InSight Landing Siteâ€A Type Example of a Regolithâ€Covered Lava Plain on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	17
116	Geologic evolution of the eastern Eridania basin: Implications for aqueous processes in the southern highlands of Mars. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 1774-1799.	1.5	16
117	Groundwater Control and Process Variability on the Equatorial Layered Deposits of Kotido Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 779-800.	1.5	16
118	The geography of Oxia Planum. <i>Journal of Maps</i> , 2021, 17, 621-637.	1.0	16
119	Estimating precipitation on early Mars using a radiative-convective model of the atmosphere and comparison with inferred runoff from geomorphology. <i>Planetary and Space Science</i> , 2015, 105, 133-147.	0.9	15
120	Final Report of the Mars Sample Return Science Planning Group 2 (MSPG2). <i>Astrobiology</i> , 2022, 22, S-5-S-26.	1.5	15
121	Small rampart craters in an equatorial region on Mars: Implications for near-surface water or ice. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	14
122	Recent tectonics and subsidence on Mars: Hints from Aureum Chaos. <i>Earth and Planetary Science Letters</i> , 2011, 312, 13-21.	1.8	14
123	Pressurized groundwater systems in Lunae and Ophir Plana (Mars): Insights from small-scale morphology and experiments. <i>GeoResJ</i> , 2015, 8, 1-13.	1.4	14
124	Rationale and Proposed Design for a Mars Sample Return (MSR) Science Program. <i>Astrobiology</i> , 2022, 22, S-27-S-56.	1.5	14
125	Equatorial layered deposits in Arabia Terra, Mars: Facies and process variability. <i>Bulletin of the Geological Society of America</i> , 0, , B31225.1.	1.6	13
126	Seasonal seismic activity on Mars. <i>Earth and Planetary Science Letters</i> , 2021, 576, 117171.	1.8	13

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127	Photogrammetric analysis of horizon panoramas: The Pathfinder landing site in Viking orbiter images. <i>Journal of Geophysical Research</i> , 1999, 104, 8927-8933.	3.3	12
128	Landscape formation at the Deuteronilus contact in southern Isidis Planitia, Mars: Implications for an Isidis Sea?. <i>Icarus</i> , 2014, 242, 329-351.	1.1	12
129	Rock Size-Frequency Distributions at the InSight Landing Site, Mars. <i>Earth and Space Science</i> , 2021, 8, .	1.1	12
130	Formation of the double rift system in the Thaumasia Highlands, Mars. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	11
131	The Evolution of Juventae Chasma, Valles Marineris, Mars: Progressive Collapse and Sedimentation. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2223-2249.	1.5	11
132	Delta Deposits on Mars: A Global Perspective. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094271.	1.5	11
133	Geology of the Ariadnes Basin, NE Eridania quadrangle, Mars " 1:1Million. <i>Journal of Maps</i> , 2014, 10, 487-499.	1.0	10
134	Grid-mapping Hellas Planitia, Mars " Insights into distribution, evolution and geomorphology of (Peri)-glacial, fluvial and lacustrine landforms in Mars' deepest basin. <i>Planetary and Space Science</i> , 2017, 145, 49-70.	0.9	10
135	Geology of Hebes Chasma, Mars: 1. Structure, Stratigraphy, and Mineralogy of the Interior Layered Deposits. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2893-2919.	1.5	10
136	Grid Mapping the Northern Plains of Mars: Geomorphological, Radar, and Water-Equivalent Hydrogen Results From Arcadia Plantia. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 504-527.	1.5	10
137	Comparison of InSight Homestead Hollow to Hollows at the Spirit Landing Site. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006435.	1.5	10
138	The Brittle Boulders of Dwarf Planet Ceres. <i>Planetary Science Journal</i> , 2021, 2, 111.	1.5	10
139	Periglacial geomorphology and landscape evolution of the Tempe Terra region, Mars. <i>Geological Society Special Publication</i> , 2011, 356, 43-67.	0.8	9
140	Debris flow recurrence periods and multi-temporal observations of colluvial fan evolution in central Spitsbergen (Svalbard). <i>Geomorphology</i> , 2017, 296, 132-141.	1.1	9
141	An Extremely Elongated Cloud Over Arsia Mons Volcano on Mars: I. Life Cycle. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006517.	1.5	9
142	Cellular patterns and dry convection in textured dust storms at the edge of Mars North Polar Cap. <i>Icarus</i> , 2022, 387, 115183.	1.1	9
143	A simulation of the OMEGA/Mars Express observations: Analysis of the atmospheric contribution. <i>Planetary and Space Science</i> , 2006, 54, 774-783.	0.9	8
144	The banded terrain on northwestern Hellas Planitia: New observations and insights into its possible formation. <i>Icarus</i> , 2019, 321, 171-188.	1.1	8

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145	Water on the Terrestrial Planets. , 2015, , 367-409.		7
146	Planning Implications Related to Sterilization-Sensitive Science Investigations Associated with Mars Sample Return (MSR). <i>Astrobiology</i> , 2022, 22, S-112-S-164.	1.5	7
147	Science and Curation Considerations for the Design of a Mars Sample Return (MSR) Sample Receiving Facility (SRF). <i>Astrobiology</i> , 2022, 22, S-217-S-237.	1.5	7
148	Evolution of periglacial landforms in the ancient mountain range of the Thaumasia Highlands, Mars. <i>Geological Society Special Publication</i> , 2011, 356, 69-85.	0.8	6
149	Water and Martian habitability: Results of an integrative study of water related processes on Mars in context with an interdisciplinary Helmholtz research alliance "Planetary Evolution and Life". <i>Planetary and Space Science</i> , 2014, 98, 128-145.	0.9	6
150	Mud flow levitation on Mars: Insights from laboratory simulations. <i>Earth and Planetary Science Letters</i> , 2020, 545, 116406.	1.8	6
151	Outgassing History and Escape of the Martian Atmosphere and Water Inventory. <i>Space Sciences Series of ISSI</i> , 2012, , 113-154.	0.0	6
152	CaSSIS color and multi-angular observations of Martian slope streaks. <i>Planetary and Space Science</i> , 2021, 209, 105373.	0.9	6
153	Planetary polar explorer "the case for a next-generation remote sensing mission to low Mars orbit. <i>Experimental Astronomy</i> , 2022, 54, 695-711.	1.6	6
154	The Mars NetLander panoramic camera. <i>Planetary and Space Science</i> , 2000, 48, 1377-1392.	0.9	5
155	Underlying structural control of small-scale faults and fractures in West Candor Chasma, Mars. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	5
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