

Nicolas Mangold

List of Publications by Year in descending order

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Version: 2024-02-01

183
papers

19,463
citations

10389

72
h-index

11308

136
g-index

187
all docs

187
docs citations

187
times ranked

6064
citing authors

#	ARTICLE	IF	CITATIONS
1	Post-landing major element quantification using SuperCam laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 188, 106347.	2.9	40
2	Bedrock Geochemistry and Alteration History of the Clay-Bearing Glen Torridon Region of Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	17
3	X-Ray Amorphous Sulfur-Bearing Phases in Sedimentary Rocks of Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	10
4	From Lake to River: Documenting an Environmental Transition Across the Jura/Knockfarril Hill Members Boundary in the Glen Torridon Region of Gale Crater (Mars). <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	19
5	Reconstructing the infilling history within Robert Sharp crater, Mars: Insights from morphology and stratigraphy. <i>Icarus</i> , 2021, 358, 114223.	2.5	4
6	X-Ray Amorphous Components in Sedimentary Rocks of Gale Crater, Mars: Evidence for Ancient Formation and Long-Lived Aqueous Activity. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006782.	3.6	22
7	Intermittent warmth on young Mars. <i>Nature Geoscience</i> , 2021, 14, 112-113.	12.9	2
8	The SuperCam Instrument Suite on the Mars 2020 Rover: Science Objectives and Mast-Unit Description. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	131
9	Voluminous Silica Precipitated from Martian Waters during Late-stage Aqueous Alteration. <i>Planetary Science Journal</i> , 2021, 2, 65.	3.6	13
10	Alternating wet and dry depositional environments recorded in the stratigraphy of Mount Sharp at Gale crater, Mars. <i>Geology</i> , 2021, 49, 842-846.	4.4	33
11	Evidence for fluvial and glacial activities within impact craters that excavated into a Noachian volcanic dome on Mars. <i>Icarus</i> , 2021, 361, 114397.	2.5	3
12	Early diagenesis at and below Vera Rubin ridge, Gale crater, Mars. <i>Meteoritics and Planetary Science</i> , 2021, 56, 1905-1932.	1.6	7
13	The SuperCam Instrument Suite on the NASA Mars 2020 Rover: Body Unit and Combined System Tests. <i>Space Science Reviews</i> , 2021, 217, 4.	8.1	160
14	Perseverance rover reveals an ancient delta-lake system and flood deposits at Jezero crater, Mars. <i>Science</i> , 2021, 374, 711-717.	12.6	86
15	Long-Distance 3D Reconstructions Using Photogrammetry with Curiosity's ChemCam Remote Micro-Imager in Gale Crater (Mars). <i>Remote Sensing</i> , 2021, 13, 4068.	4.0	5
16	Evidence for thermal-stress-induced rockfalls on Mars impact crater slopes. <i>Icarus</i> , 2020, 342, 113503.	2.5	27
17	Refining the age, emplacement and alteration scenarios of the olivine-rich unit in the Nili Fossae region, Mars. <i>Icarus</i> , 2020, 336, 113436.	2.5	59
18	Particular H ₂ O dissolution mechanism in iron-rich melt: Application to martian basaltic melt genesis. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 493-507.	2.5	8

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19	3D digital outcrop model reconstruction of the Kimberley outcrop (Gale crater, Mars) and its integration into Virtual Reality for simulated geological analysis. <i>Planetary and Space Science</i> , 2020, 182, 104808.	1.7	27
20	Extraformational sediment recycling on Mars. , 2020, 16, 1508-1537.		20
21	Boulder Fall Activity in the Jezero Crater, Mars. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090362.	4.0	4
22	Analyses of High- $\delta^{13}C$ Iron Sedimentary Bedrock and Diagenetic Features Observed With ChemCam at Vera Rubin Ridge, Gale Crater, Mars: Calibration and Characterization. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006314.	3.6	30
23	Evidence for a Diagenetic Origin of Vera Rubin Ridge, Gale Crater, Mars: Summary and Synthesis of Curiosity's Exploration Campaign. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006527.	3.6	69
24	Diagenesis of Vera Rubin Ridge, Gale Crater, Mars, From Mastcam Multispectral Images. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006322.	3.6	33
25	Iron Mobility During Diagenesis at Vera Rubin Ridge, Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006299.	3.6	30
26	Boron and Lithium in Calcium Sulfate Veins: Tracking Precipitation of Diagenetic Materials in Vera Rubin Ridge, Gale Crater. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006301.	3.6	8
27	Photogeologic Map of the Perseverance Rover Field Site in Jezero Crater Constructed by the Mars 2020 Science Team. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	67
28	Fluvial Regimes, Morphometry, and Age of Jezero Crater Paleolake Inlet Valleys and Their Exobiological Significance for the 2020 Rover Mission Landing Site. <i>Astrobiology</i> , 2020, 20, 994-1013.	3.0	46
29	Structural analysis of sulfate vein networks in Gale crater (Mars). <i>Journal of Structural Geology</i> , 2020, 137, 104083.	2.3	10
30	Estimated Minimum Life Span of the Jezero Fluvial Delta (Mars). <i>Astrobiology</i> , 2020, 20, 977-993.	3.0	20
31	Origin and composition of three heterolithic boulder- and cobble-bearing deposits overlying the Murray and Stimson formations, Gale Crater, Mars. <i>Icarus</i> , 2020, 350, 113897.	2.5	11
32	Water-Ice Exposing Scarps Within the Northern Midlatitude Craters on Mars. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089057.	4.0	9
33	The Chemostratigraphy of the Murray Formation and Role of Diagenesis at Vera Rubin Ridge in Gale Crater, Mars, as Observed by the ChemCam Instrument. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006320.	3.6	41
34	Toward the geological significance of hydrated silica detected by near infrared spectroscopy on Mars based on terrestrial reference samples. <i>Icarus</i> , 2020, 347, 113706.	2.5	14
35	Grain Size Variations in the Murray Formation: Stratigraphic Evidence for Changing Depositional Environments in Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006230.	3.6	29
36	Mars Science Laboratory Observations of Chloride Salts in Gale Crater, Mars. <i>Geophysical Research Letters</i> , 2019, 46, 10754-10763.	4.0	52

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37	An interval of high salinity in ancient Gale crater lake on Mars. <i>Nature Geoscience</i> , 2019, 12, 889-895.	12.9	105
38	New Constraints on Early Mars Weathering Conditions From an Experimental Approach on Crust Simulants. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1783-1801.	3.6	9
39	The potential science and engineering value of samples delivered to Earth by Mars sample return. <i>Meteoritics and Planetary Science</i> , 2019, 54, S3.	1.6	73
40	The Hydrology of Mars Including a Potential Cryosphere. , 2019, , 185-246.		7
41	Copper enrichments in the Kimberley formation in Gale crater, Mars: Evidence for a Cu deposit at the source. <i>Icarus</i> , 2019, 321, 736-751.	2.5	23
42	Chemical alteration of fine-grained sedimentary rocks at Gale crater. <i>Icarus</i> , 2019, 321, 619-631.	2.5	52
43	Using ChemCam LIBS data to constrain grain size in rocks on Mars: Proof of concept and application to rocks at Yellowknife Bay and Pahrump Hills, Gale crater. <i>Icarus</i> , 2019, 321, 82-98.	2.5	37
44	Investigating the role of anhydrous oxidative weathering on sedimentary rocks in the Transantarctic Mountains and implications for the modern weathering of sedimentary lithologies on Mars. <i>Icarus</i> , 2019, 319, 669-684.	2.5	8
45	Formation of clay minerals on Mars: Insights from long-term experimental weathering of olivine. <i>Icarus</i> , 2018, 311, 210-223.	2.5	17
46	Chemical variability in mineralized veins observed by ChemCam on the lower slopes of Mount Sharp in Gale crater, Mars. <i>Icarus</i> , 2018, 311, 69-86.	2.5	34
47	Shaler: <i>in situ</i> analysis of a fluvial sedimentary deposit on Mars. <i>Sedimentology</i> , 2018, 65, 96-122.	3.1	59
48	Desiccation cracks provide evidence of lake drying on Mars, Sutton Island member, Murray formation, Gale Crater. <i>Geology</i> , 2018, 46, 515-518.	4.4	71
49	Martian Eolian Dust Probed by ChemCam. <i>Geophysical Research Letters</i> , 2018, 45, 10,968.	4.0	40
50	In Situ Analysis of Opal in Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 1955-1972.	3.6	36
51	Clay mineral diversity and abundance in sedimentary rocks of Gale crater, Mars. <i>Science Advances</i> , 2018, 4, eaar3330.	10.3	150
52	Quantification of water content by laser induced breakdown spectroscopy on Mars. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 130, 82-100.	2.9	65
53	Classification of igneous rocks analyzed by ChemCam at Gale crater, Mars. <i>Icarus</i> , 2017, 288, 265-283.	2.5	96
54	Near infrared signature of opal and chalcedony as a proxy for their structure and formation conditions. <i>European Journal of Mineralogy</i> , 2017, 29, 409-421.	1.3	24

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55	Diagenetic silica enrichment and late-stage groundwater activity in Gale crater, Mars. <i>Geophysical Research Letters</i> , 2017, 44, 4716-4724.	4.0	87
56	Centimeter to decimeter hollow concretions and voids in Gale Crater sediments, Mars. <i>Icarus</i> , 2017, 289, 144-156.	2.5	12
57	Alkali trace elements in Gale crater, Mars, with ChemCam: Calibration update and geological implications. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 650-679.	3.6	48
58	Classification scheme for sedimentary and igneous rocks in Gale crater, Mars. <i>Icarus</i> , 2017, 284, 1-17.	2.5	46
59	Fluidized-sediment pipes in Gale crater, Mars, and possible Earth analogs. <i>Geology</i> , 2017, 45, 7-10.	4.4	18
60	Chemistry of diagenetic features analyzed by ChemCam at Pahrump Hills, Gale crater, Mars. <i>Icarus</i> , 2017, 281, 121-136.	2.5	90
61	Oxidation of manganese in an ancient aquifer, Kimberley formation, Gale crater, Mars. <i>Geophysical Research Letters</i> , 2016, 43, 7398-7407.	4.0	110
62	Observation of >5 wt % zinc at the Kimberley outcrop, Gale crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 338-352.	3.6	32
63	Composition of conglomerates analyzed by the Curiosity rover: Implications for Gale Crater crust and sediment sources. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 353-387.	3.6	53
64	Magmatic complexity on early Mars as seen through a combination of orbital, in-situ and meteorite data. <i>Lithos</i> , 2016, 254-255, 36-52.	1.4	66
65	Mineralogical record of the redox conditions on early Mars. <i>Icarus</i> , 2016, 271, 67-75.	2.5	23
66	Hydration state of calcium sulfates in Gale crater, Mars: Identification of bassanite veins. <i>Earth and Planetary Science Letters</i> , 2016, 452, 197-205.	4.4	103
67	Fluids during diagenesis and sulfate vein formation in sediments at Gale crater, Mars. <i>Meteoritics and Planetary Science</i> , 2016, 51, 2175-2202.	1.6	50
68	Sequence and relative timing of large lakes in Gale crater (Mars) after the formation of Mount Sharp. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 472-496.	3.6	72
69	Mars: a small terrestrial planet. <i>Astronomy and Astrophysics Review</i> , 2016, 24, 1.	25.5	22
70	The sustainability of habitability on terrestrial planets: Insights, questions, and needed measurements from Mars for understanding the evolution of Earth-like worlds. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1927-1961.	3.6	72
71	The potassic sedimentary rocks in Gale Crater, Mars, as seen by ChemCam on board <i>Curiosity</i> . <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 784-804.	3.6	67
72	A sedimentary origin for intercrater plains north of the Hellas basin: Implications for climate conditions and erosion rates on early Mars. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 2239-2267.	3.6	25

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73	ChemCam activities and discoveries during the nominal mission of the Mars Science Laboratory in Gale crater, Mars. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 863-889.	3.0	134
74	Diagenesis and clay mineral formation at Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 1-19.	3.6	72
75	Chemical variations in Yellowknife Bay formation sedimentary rocks analyzed by ChemCam on board the Curiosity rover on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 452-482.	3.6	51
76	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.	1.7	63
77	Hydrogen detection with ChemCam at Gale crater. <i>Icarus</i> , 2015, 249, 43-61.	2.5	58
78	First detection of fluorine on Mars: Implications for Gale Crater's geochemistry. <i>Geophysical Research Letters</i> , 2015, 42, 1020-1028.	4.0	107
79	In situ evidence for continental crust on early Mars. <i>Nature Geoscience</i> , 2015, 8, 605-609.	12.9	233
80	Deposition, exhumation, and paleoclimate of an ancient lake deposit, Gale crater, Mars. <i>Science</i> , 2015, 350, aac7575.	12.6	471
81	Widespread surface weathering on early Mars: A case for a warmer and wetter climate. <i>Icarus</i> , 2015, 248, 373-382.	2.5	151
82	Gale crater and impact processes – Curiosity's first 364 Sols on Mars. <i>Icarus</i> , 2015, 249, 108-128.	2.5	37
83	Compositions of coarse and fine particles in martian soils at gale: A window into the production of soils. <i>Icarus</i> , 2015, 249, 22-42.	2.5	64
84	The ChemCam Remote Micro-Imager at Gale crater: Review of the first year of operations on Mars. <i>Icarus</i> , 2015, 249, 93-107.	2.5	95
85	Understanding the signature of rock coatings in laser-induced breakdown spectroscopy data. <i>Icarus</i> , 2015, 249, 62-73.	2.5	49
86	ChemCam results from the Shaler outcrop in Gale crater, Mars. <i>Icarus</i> , 2015, 249, 2-21.	2.5	52
87	High manganese concentrations in rocks at Gale crater, Mars. <i>Geophysical Research Letters</i> , 2014, 41, 5755-5763.	4.0	81
88	Trace element geochemistry (Li, Ba, Sr, and Rb) using Curiosity's ChemCam: Early results for Gale crater from Bradbury Landing Site to Rocknest. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 255-285.	3.6	86
89	Comprehensive analysis of glaciated martian crater Greg. <i>Icarus</i> , 2014, 228, 96-120.	2.5	35
90	Weathering of olivine under CO ₂ atmosphere: A martian perspective. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 135, 170-189.	3.9	30

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91	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1245267.	12.6	323
92	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1242777.	12.6	687
93	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1243480.	12.6	508
94	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1244734.	12.6	246
95	Calcium sulfate veins characterized by ChemCam/Curiosity at Gale crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1991-2016.	3.6	214
96	Terrain physical properties derived from orbital data and the first 360 sols of Mars Science Laboratory Curiosity rover observations in Gale Crater. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1322-1344.	3.6	43
97	The rock abrasion record at Gale Crater: Mars Science Laboratory results from Bradbury Landing to Rocknest. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1374-1389.	3.6	46
98	Diagenetic origin of nodules in the Sheepbed member, Yellowknife Bay formation, Gale crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1637-1664.	3.6	80
99	Overview of the Mars Science Laboratory mission: Bradbury Landing to Yellowknife Bay and beyond. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1134-1161.	3.6	104
100	Chemistry and texture of the rocks at Rocknest, Gale Crater: Evidence for sedimentary origin and diagenetic alteration. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 2109-2131.	3.6	48
101	Chemistry of fracture-filling raised ridges in Yellowknife Bay, Gale Crater: Window into past aqueous activity and habitability on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 2398-2415.	3.6	70
102	The timing of alluvial activity in Gale crater, Mars. <i>Geophysical Research Letters</i> , 2014, 41, 1142-1149.	4.0	88
103	Igneous mineralogy at Bradbury Rise: The first ChemCam campaign at Gale crater. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 30-46.	3.6	114
104	Evidence for Amazonian mid-latitude glaciation on Mars from impact crater asymmetry. <i>Icarus</i> , 2013, 225, 413-423.	2.5	10
105	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. <i>Science</i> , 2013, 341, 1238932.	12.6	327
106	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. <i>Science</i> , 2013, 341, 1239505.	12.6	280
107	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. <i>Science</i> , 2013, 341, 263-266.	12.6	327
108	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. <i>Science</i> , 2013, 341, 1238937.	12.6	367

#	ARTICLE	IF	CITATIONS
109	Isotope Ratios of H, C, and O in CO ₂ and H ₂ O of the Martian Atmosphere. <i>Science</i> , 2013, 341, 260-263.	12.6	241
110	Geochemical Consequences of Widespread Clay Mineral Formation in Mars's Ancient Crust. <i>Space Science Reviews</i> , 2013, 174, 329-364.	8.1	108
111	Quantitative Assessments of the Martian Hydrosphere. <i>Space Science Reviews</i> , 2013, 174, 155-212.	8.1	88
112	Outflow channels with deltaic deposits in Ismenius Lacus, Mars. <i>Icarus</i> , 2013, 226, 385-401.	2.5	59
113	Martian Fluvial Conglomerates at Gale Crater. <i>Science</i> , 2013, 340, 1068-1072.	12.6	326
114	3D morphometry of valley networks on Mars from HRSC/MEX DEMs: Implications for climatic evolution through time. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1873-1894.	3.6	27
115	The Petrochemistry of Jake_M: A Martian Mugearite. <i>Science</i> , 2013, 341, 1239-1243.	12.6	134
116	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. <i>Science</i> , 2013, 341, 1238-1240.	12.6	215
117	Characteristics of pebble- and cobble-sized clasts along the Curiosity rover traverse from Bradbury Landing to Rocknest. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 2361-2380.	3.6	44
118	Hydrous minerals on Mars as seen by the CRISM and OMEGA imaging spectrometers: Updated global view. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 831-858.	3.6	420
119	The ChemCam Instrument Suite on the Mars Science Laboratory (MSL) Rover: Body Unit and Combined System Tests. <i>Space Science Reviews</i> , 2012, 170, 167-227.	8.1	429
120	The ChemCam Instrument Suite on the Mars Science Laboratory (MSL) Rover: Science Objectives and Mast Unit Description. <i>Space Science Reviews</i> , 2012, 170, 95-166.	8.1	372
121	Late Hesperian aqueous alteration at Majuro crater, Mars. <i>Planetary and Space Science</i> , 2012, 72, 18-30.	1.7	52
122	Chronology of deposition and alteration in the Mawrth Vallis region, Mars. <i>Planetary and Space Science</i> , 2012, 72, 31-43.	1.7	65
123	The origin and timing of fluvial activity at Eberswalde crater, Mars. <i>Icarus</i> , 2012, 220, 530-551.	2.5	89
124	Evaluating the role of sulfide-weathering in the formation of sulfates or carbonates on Mars. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 90, 47-63.	3.9	62
125	A chronology of early Mars climatic evolution from impact crater degradation. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	115
126	Most Mars minerals in a nutshell: Various alteration phases formed in a single environment in Noctis Labyrinthus. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	74

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127	Characterization of hydrated silicate-bearing outcrops in Tyrrhena Terra, Mars: Implications to the alteration history of Mars. <i>Icarus</i> , 2012, 219, 476-497.	2.5	42
128	Fluvial landforms on fresh impact ejecta on Mars. <i>Planetary and Space Science</i> , 2012, 62, 69-85.	1.7	49
129	Quantitative Assessments of the Martian Hydrosphere. <i>Space Sciences Series of ISSI</i> , 2012, , 155-212.	0.0	0
130	Geochemical Consequences of Widespread Clay Mineral Formation in Mars's Ancient Crust. <i>Space Sciences Series of ISSI</i> , 2012, , 329-364.	0.0	0
131	Ice sublimation as a geomorphic process: A planetary perspective. <i>Geomorphology</i> , 2011, 126, 1-17.	2.6	70
132	Segregation of olivine grains in volcanic sands in Iceland and implications for Mars. <i>Earth and Planetary Science Letters</i> , 2011, 310, 233-243.	4.4	49
133	Diverse mineralogies in two troughs of Noctis Labyrinthus, Mars. <i>Geology</i> , 2011, 39, 899-902.	4.4	63
134	Evidence for weathering on early Mars from a comparison with terrestrial weathering profiles. <i>Icarus</i> , 2011, 216, 257-268.	2.5	59
135	Volcanic sands of Iceland – Diverse origins of aeolian sand deposits revealed at Dyngjúsandur and Lambahraun. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 1789-1808.	2.5	50
136	Stratigraphy, mineralogy, and origin of layered deposits inside Terby crater, Mars. <i>Icarus</i> , 2011, 211, 273-304.	2.5	131
137	Ismenius Cavus, Mars: A deep paleolake with phyllosilicate deposits. <i>Planetary and Space Science</i> , 2010, 58, 941-946.	1.7	44
138	Stratigraphy in the Mawrth Vallis region through OMEGA, HRSC color imagery and DTM. <i>Icarus</i> , 2010, 205, 396-418.	2.5	146
139	A Late Amazonian alteration layer related to local volcanism on Mars. <i>Icarus</i> , 2010, 207, 265-276.	2.5	39
140	Characterization of fluvial activity in Parana Valles using different age-dating techniques. <i>Icarus</i> , 2010, 207, 686-698.	2.5	26
141	Sinuuous gullies on Mars: Frequency, distribution, and implications for flow properties. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	118
142	Mineralogy of recent volcanic plains in the Tharsis region, Mars, and implications for platy-ridged flow composition. <i>Earth and Planetary Science Letters</i> , 2010, 294, 440-450.	4.4	42
143	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.	4.4	79
144	Shape, rheology and emplacement times of small martian shield volcanoes. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 185, 47-68.	2.1	33

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145	Quantitative compositional analysis of martian mafic regions using the MEx/OMEGA reflectance data. <i>Icarus</i> , 2009, 201, 84-101.	2.5	109
146	Contribution of Mars Odyssey GRS at Central Elysium Planitia. <i>Icarus</i> , 2009, 200, 19-29.	2.5	28
147	The volcanic history of central Elysium Planitia: Implications for martian magmatism. <i>Icarus</i> , 2009, 204, 418-442.	2.5	157
148	Fluvial morphology of Naktong Vallis, Mars: A late activity with multiple processes. <i>Planetary and Space Science</i> , 2009, 57, 982-999.	1.7	26
149	Composition, Morphology, and Stratigraphy of Noachian Crust around the Isidis basin. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	144
150	Spectral and geological study of the sulfate-rich region of West Candor Chasma, Mars. <i>Icarus</i> , 2008, 194, 519-543.	2.5	130
151	Formation and evolution of the chaotic terrains by subsidence and magmatism: Hydraotes Chaos, Mars. <i>Icarus</i> , 2008, 194, 487-500.	2.5	73
152	Geomorphologic study of fluvial landforms on the northern Valles Marineris plateau, Mars. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	65
153	Topography of valley networks on Mars from Mars Express High Resolution Stereo Camera digital elevation models. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	46
154	Abundance of minerals in the phyllosilicate-rich units on Mars. <i>Astronomy and Astrophysics</i> , 2008, 487, L41-L44.	5.1	123
155	Coupled Ferric Oxides and Sulfates on the Martian Surface. <i>Science</i> , 2007, 317, 1206-1210.	12.6	161
156	Phyllosilicates in the Mawrth Vallis region of Mars. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	153
157	Mineralogy of the Nili Fossae region with OMEGA/Mars Express data: 2. Aqueous alteration of the crust. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	154
158	Martian perched craters and large ejecta volume: Evidence for episodes of deflation in the northern lowlands. <i>Meteoritics and Planetary Science</i> , 2006, 41, 1647-1658.	1.6	36
159	Orientation and distribution of recent gullies in the southern hemisphere of Mars: Observations from High Resolution Stereo Camera/Mars Express (HRSC/MEX) and Mars Orbiter Camera/Mars Global Surveyor (MOC/MGS) data. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	120
160	Detailed study of an hydrological system of valleys, a delta and lakes in the Southwest Thaumasia region, Mars. <i>Icarus</i> , 2006, 180, 75-87.	2.5	76
161	The role of the wind-transported dust in slope streaks activity: Evidence from the HRSC data. <i>Icarus</i> , 2006, 183, 30-45.	2.5	56
162	New observations of Warrego Valles, Mars: Evidence for precipitation and surface runoff. <i>Planetary and Space Science</i> , 2006, 54, 219-242.	1.7	128

#	ARTICLE	IF	CITATIONS
163	High latitude patterned grounds on Mars: Classification, distribution and climatic control. <i>Icarus</i> , 2005, 174, 336-359.	2.5	228
164	Phyllosilicates on Mars and implications for early martian climate. <i>Nature</i> , 2005, 438, 623-627.	27.8	825
165	Mars Surface Diversity as Revealed by the OMEGA/Mars Express Observations. <i>Science</i> , 2005, 307, 1576-1581.	12.6	842
166	Olivine and Pyroxene Diversity in the Crust of Mars. <i>Science</i> , 2005, 307, 1594-1597.	12.6	348
167	Sulfates in Martian Layered Terrains: The OMEGA/Mars Express View. <i>Science</i> , 2005, 307, 1587-1591.	12.6	867
168	Thermal properties of lobate ejecta in Syrtis Major, Mars: Implications for the mechanisms of formation. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	32
169	Fluvial and lacustrine activity on layered deposits in Melas Chasma, Valles Marineris, Mars. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	102
170	Evidence for Precipitation on Mars from Dendritic Valleys in the Valles Marineris Area. <i>Science</i> , 2004, 305, 78-81.	12.6	237
171	Perennial water ice identified in the south polar cap of Mars. <i>Nature</i> , 2004, 428, 627-630.	27.8	279
172	Ages of Valles Marineris (Mars) landslides and implications for canyon history. <i>Icarus</i> , 2004, 172, 555-572.	2.5	88
173	Spatial relationships between patterned ground and ground ice detected by the Neutron Spectrometer on Mars. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	74
174	Geomorphic analysis of lobate debris aprons on Mars at Mars Orbiter Camera scale: Evidence for ice sublimation initiated by fractures. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	162
175	Debris flows over sand dunes on Mars: Evidence for liquid water. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	133
176	A new view of dark Martian regions from geomorphic and spectroscopic analysis of Syrtis Major. <i>Astronomy and Astrophysics</i> , 2003, 412, L19-L23.	5.1	13
177	Formation of Recent Martian Debris Flows by Melting of Near-Surface Ground Ice at High Obliquity. <i>Science</i> , 2002, 295, 110-113.	12.6	368
178	Evidence of liquid water in recent debris avalanche on Mars. <i>Geophysical Research Letters</i> , 2002, 29, 60-1.	4.0	14
179	Experimental and theoretical deformation of ice-rock mixtures: Implications on rheology and ice content of Martian permafrost. <i>Planetary and Space Science</i> , 2002, 50, 385-401.	1.7	73
180	Topographic analysis of features related to ice on Mars. <i>Geophysical Research Letters</i> , 2001, 28, 407-410.	4.0	73

#	ARTICLE	IF	CITATIONS
181	Chronology of compressional deformation on Mars: evidence for a single and global origin. Planetary and Space Science, 2000, 48, 1201-1211.	1.7	44
182	Wrinkle ridges of Mars: structural analysis and evidence for shallow deformation controlled by ice-rich dÃ©collements. Planetary and Space Science, 1998, 46, 345-356.	1.7	78
183	Active ground patterns near Mars' equator in the Glen Torridon region of Gale Crater. Journal of Geophysical Research E: Planets, 0, , .	3.6	3