J R Johnson

List of Publications by Year in descending order

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181 papers	18,844 citations	15001 68 h-index	14012 133 g-index
191 all docs	191 docs citations	191 times ranked	7985 citing authors

#	Article	IF	Citations
1	Overview of the Morphology and Chemistry of Diagenetic Features in the Clayâ€Rich Glen Torridon Unit of Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	17
2	Identifying Shocked Feldspar on Mars Using Perseverance Spectroscopic Instruments: Implications for Geochronology Studies on Returned Samples. Earth, Moon and Planets, 2022, 126, .	0.3	4
3	Homogeneity assessment of the SuperCam calibration targets onboard rover perseverance. Analytica Chimica Acta, 2022, 1209, 339837.	2.6	9
4	Mars Oxygen ISRU Experiment (MOXIE). Space Science Reviews, 2021, 217, 1.	3.7	56
5	Pre-Flight Calibration of the Mars 2020 Rover Mastcam Zoom (Mastcam-Z) Multispectral, Stereoscopic Imager. Space Science Reviews, 2021, 217, 29.	3.7	31
6	The Mars 2020 Perseverance Rover Mast Camera Zoom (Mastcam-Z) Multispectral, Stereoscopic Imaging Investigation. Space Science Reviews, 2021, 217, 24.	3.7	76
7	Spectrophotometric properties of materials observed by Pancam on the Mars Exploration Rovers: 4. Final mission observations. Icarus, 2021, 357, 114261.	1.1	10
8	The Value of Participating Scientist Programs to NASAâ€™s Planetary Science Division. , 2021, 53, .		0
9	The SuperCam Instrument Suite on the Mars 2020 Rover: Science Objectives and Mast-Unit Description. Space Science Reviews, 2021, 217, 1.	3.7	131
10	The SuperCam Instrument Suite on the NASA Mars 2020 Rover: Body Unit and Combined System Tests. Space Science Reviews, 2021, 217, 4.	3.7	160
11	The bidirectional and directional hemispheric reflectance of Apollo 11 and 16 soils: Laboratory and Diviner measurements. Icarus, 2020, 336, 113456.	1.1	6
12	Spectrophotometry from Mars Hand Lens Imager goniometer measurements: Kimberley region, Gale crater. Icarus, 2020, 335, 113361.	1.1	5
13	Analyses of Highâ€Iron Sedimentary Bedrock and Diagenetic Features Observed With ChemCam at Vera Rubin Ridge, Gale Crater, Mars: Calibration and Characterization. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006314.	1.5	30
14	Evidence for a Diagenetic Origin of Vera Rubin Ridge, Gale Crater, Mars: Summary and Synthesis of Curiosity's Exploration Campaign. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006527.	1.5	69
15	Synergistic Ground and Orbital Observations of Iron Oxides on Mt. Sharp and Vera Rubin Ridge. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006294.	1.5	27
16	Diagenesis of Vera Rubin Ridge, Gale Crater, Mars, From Mastcam Multispectral Images. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006322.	1.5	33
17	Spectral, Compositional, and Physical Properties of the Upper Murray Formation and Vera Rubin Ridge, Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006290.	1.5	20
18	Iron Mobility During Diagenesis at Vera Rubin Ridge, Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006299.	1.5	30

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19	SuperCam Calibration Targets: Design and Development. Space Science Reviews, 2020, 216, 138.	3.7	44
20	Radiometric Calibration Targets for the Mastcam-Z Camera on the Mars 2020 Rover Mission. Space Science Reviews, 2020, 216, 1.	3.7	27
21	Photogeologic Map of the Perseverance Rover Field Site in Jezero Crater Constructed by the Mars 2020 Science Team. Space Science Reviews, 2020, 216, 1.	3.7	67
22	Raman and Infrared Microspectroscopy of Experimentally Shocked Basalts. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006240.	1.5	7
23	Unconventional high-pressure Raman spectroscopy study of kinetic and peak pressure effects in plagioclase feldspars. Physics and Chemistry of Minerals, 2020, 47, 1.	0.3	6
24	Overview of Spirit Microscopic Imager Results. Journal of Geophysical Research E: Planets, 2019, 124, 528-584.	1.5	4
25	Compositional and Mineralogic Analyses of Mars Using Multispectral Imaging on the Mars Exploration Rover, Phoenix, and Mars Science Laboratory Missions. , 2019, , 513-537.		3
26	Elemental Analyses of Mars from Rovers with Laser-Induced Breakdown Spectroscopy by ChemCam and SuperCam. , 2019, , 573-587.		0
27	Photometric characterization of Lucideon and Avian Technologies color standards including application for calibration of the Mastcam-Z instrument on the Mars 2020 rover. Optical Engineering, 2019, 58, 1.	0.5	8
28	Retrieval of water vapor column abundance and aerosol properties from ChemCam passive sky spectroscopy. Icarus, 2018, 307, 294-326.	1.1	39
29	Chemical variability in mineralized veins observed by ChemCam on the lower slopes of Mount Sharp in Gale crater, Mars. Icarus, 2018, 311, 69-86.	1.1	34
30	Derivation of optical constants for nanophase hematite and application to modeled abundances from in-situ Martian reflectance spectra. Icarus, 2018, 300, 167-173.	1.1	4
31	Martian Eolian Dust Probed by ChemCam. Geophysical Research Letters, 2018, 45, 10,968.	1.5	40
32	Microspectroscopic and Petrographic Comparison of Experimentally Shocked Albite, Andesine, and Bytownite. Journal of Geophysical Research E: Planets, 2018, 123, 1701-1722.	1.5	24
33	The albedo of Mars: Six Mars years of observations from Pancam on the Mars Exploration Rovers and comparisons to MOC, CTX and HiRISE. Icarus, 2018, 314, 159-174.	1.1	10
34	Bagnold Dunes Campaign Phase 2: Visible/Nearâ€infrared Reflectance Spectroscopy of Longitudinal Ripple Sands. Geophysical Research Letters, 2018, 45, 9480-9487.	1.5	17
35	Visible/nearâ€infrared spectral diversity from in situ observations of the Bagnold Dune Field sands in Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2017, 122, 2655-2684.	1.5	40
36	Visible to near-infrared MSL/Mastcam multispectral imaging: Initial results from select high-interest science targets within Gale Crater, Mars. American Mineralogist, 2017, 102, 1202-1217.	0.9	43

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37	Diagenetic silica enrichment and lateâ€stage groundwater activity in Gale crater, Mars. Geophysical Research Letters, 2017, 44, 4716-4724.	1.5	87
38	Chemistry, mineralogy, and grain properties at Namib and High dunes, Bagnold dune field, Gale crater, Mars: A synthesis of Curiosity rover observations. Journal of Geophysical Research E: Planets, 2017, 122, 2510-2543.	1.5	95
39	Centimeter to decimeter hollow concretions and voids in Gale Crater sediments, Mars. Icarus, 2017, 289, 144-156.	1.1	12
40	Constraints on iron sulfate and iron oxide mineralogy from ChemCam visible/near-infrared reflectance spectroscopy of Mt. Sharp basal units, Gale Crater, Mars. American Mineralogist, 2016, 101, 1501-1514.	0.9	31
41	Oxidation of manganese in an ancient aquifer, Kimberley formation, Gale crater, Mars. Geophysical Research Letters, 2016, 43, 7398-7407.	1.5	110
42	Observation of >â€‰5â€‰wt % zinc at the Kimberley outcrop, Gale crater, Mars. Journal of Geophysical Research E: Planets, 2016, 121, 338-352.	1.5	32
43	High concentrations of manganese and sulfur in deposits on Murray Ridge, Endeavour Crater, Mars. American Mineralogist, 2016, 101, 1389-1405.	0.9	55
44	VNIR multispectral observations of aqueous alteration materials by the Pancams on the Spirit and Opportunity Mars Exploration Rovers. American Mineralogist, 2016, 101, 2005-2019.	0.9	25
45	The sustainability of habitability on terrestrial planets: Insights, questions, and needed measurements from Mars for understanding the evolution of Earthâ€like worlds. Journal of Geophysical Research E: Planets, 2016, 121, 1927-1961.	1.5	72
46	ChemCam activities and discoveries during the nominal mission of the Mars Science Laboratory in Gale crater, Mars. Journal of Analytical Atomic Spectrometry, 2016, 31, 863-889.	1.6	134
47	Dust deposition on the decks of the Mars Exploration Rovers: 10â€‰years of dust dynamics on the Panoramic Camera calibration targets. Earth and Space Science, 2015, 2, 144-172.	1.1	49
48	Chemical variations in Yellowknife Bay formation sedimentary rocks analyzed by ChemCam on board the Curiosity rover on Mars. Journal of Geophysical Research E: Planets, 2015, 120, 452-482.	1.5	51
49	Context of ancient aqueous environments on Mars from in situ geologic mapping at Endeavour Crater. Journal of Geophysical Research E: Planets, 2015, 120, 538-569.	1.5	37
50	Hydrogen detection with ChemCam at Gale crater. Icarus, 2015, 249, 43-61.	1.1	58
51	Oxalate minerals on Mars?. Earth and Planetary Science Letters, 2015, 420, 127-139.	1.8	32
52	Evidence for indigenous nitrogen in sedimentary and aeolian deposits from the Curiosity rover investigations at Gale crater, Mars. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4245-4250.	3.3	172
53	Persistent aeolian activity at Endeavour crater, Meridiani Planum, Mars; new observations from orbit and the surface. Icarus, 2015, 251, 275-290.	1.1	49
54	The ChemCam Remote Micro-Imager at Gale crater: Review of the first year of operations on Mars. Icarus, 2015, 249, 93-107.	1.1	95

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55	ChemCam passive reflectance spectroscopy of surface materials at the Curiosity landing site, Mars. Icarus, 2015, 249, 74-92.	1.1	70
56	Spectrophotometric properties of materials observed by Pancam on the Mars Exploration Rovers: 3. Sols 500â€“1525. Icarus, 2015, 248, 25-71.	1.1	12
57	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267.	6.0	323
58	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1242777.	6.0	687
59	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1243480.	6.0	508
60	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734.	6.0	246
61	Calcium sulfate veins characterized by ChemCam/Curiosity at Gale crater, Mars. Journal of Geophysical Research E: Planets, 2014, 119, 1991-2016.	1.5	214
62	Terrain physical properties derived from orbital data and the first 360 sols of Mars Science Laboratory Curiosity rover observations in Gale Crater. Journal of Geophysical Research E: Planets, 2014, 119, 1322-1344.	1.5	43
63	Observations of rock spectral classes by the Opportunity rover's Pancam on northern Cape York and on Matijevic Hill, Endeavour Crater, Mars. Journal of Geophysical Research E: Planets, 2014, 119, 2349-2369.	1.5	19
64	Chemistry and texture of the rocks at Rocknest, Gale Crater: Evidence for sedimentary origin and diagenetic alteration. Journal of Geophysical Research E: Planets, 2014, 119, 2109-2131.	1.5	48
65	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. Science, 2013, 341, 1238932.	6.0	327
66	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. Science, 2013, 341, 1239505.	6.0	280
67	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. Science, 2013, 341, 263-266.	6.0	327
68	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. Science, 2013, 341, 1238937.	6.0	367
69	Isotope Ratios of H, C, and O in CO ₂ and H ₂ O of the Martian Atmosphere. Science, 2013, 341, 260-263.	6.0	241
70	VNIR multispectral observations of rocks at Cape York, Endeavour crater, Mars by the Opportunity roverâ€™s Pancam. Icarus, 2013, 225, 709-725.	1.1	23
71	Spectrogoniometry and modeling of martian and lunar analog samples and Apollo soils. Icarus, 2013, 223, 383-406.	1.1	43
72	Martian Fluvial Conglomerates at Gale Crater. Science, 2013, 340, 1068-1072.	6.0	326

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73	The Petrochemistry of Jake_M: A Martian Mugearite. Science, 2013, 341, 1239463.	6.0	134
74	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. Science, 2013, 341, 1238670.	6.0	215
75	Thermal infrared spectra of experimentally shocked andesine anorthosite. Icarus, 2012, 221, 359-364.	1.1	27
76	Variability of diffusion of argon in albite, pyroxene, and olivine in shocked and unshocked samples. Geochimica Et Cosmochimica Acta, 2012, 77, 546-560.	1.6	9
77	Ancient Impact and Aqueous Processes at Endeavour Crater, Mars. Science, 2012, 336, 570-576.	6.0	176
78	Evidence for mechanical and chemical alteration of iron-nickel meteorites on Mars: Process insights for Meridiani Planum. Journal of Geophysical Research, 2011, 116, .	3.3	28
79	Temporal observations of bright soil exposures at Gusev crater, Mars. Journal of Geophysical Research, 2011, 116, .	3.3	19
80	Opportunity Mars Rover mission: Overview and selected results from Purgatory ripple to traverses to Endeavour crater. Journal of Geophysical Research, 2011, 116, .	3.3	106
81	Field reconnaissance geologic mapping of the Columbia Hills, Mars, based on Mars Exploration Rover Spirit and MRO HiRISE observations. Journal of Geophysical Research, 2011, 116, .	3.3	24
82	Characteristics, distribution, origin, and significance of opaline silica observed by the Spirit rover in Gusev crater, Mars. Journal of Geophysical Research, 2011, 116, .	3.3	155
83	Silica-rich deposits and hydrated minerals at Gusev Crater, Mars: Vis-NIR spectral characterization and regional mapping. Icarus, 2010, 205, 375-395.	1.1	93
84	Properties and distribution of paired candidate stony meteorites at Meridiani Planum, Mars. Journal of Geophysical Research, 2010, 115, .	3.3	19
85	Mineralogy and chemistry of cobbles at Meridiani Planum, Mars, investigated by the Mars Exploration Rover Opportunity. Journal of Geophysical Research, 2010, 115, .	3.3	14
86	Spirit Mars Rover Mission: Overview and selected results from the northern Home Plate Winter Haven to the side of Scamander crater. Journal of Geophysical Research, 2010, 115, .	3.3	127
87	Visible and nearâ€infrared multispectral analysis of geochemically measured rock fragments at the Opportunity landing site in Meridiani Planum. Journal of Geophysical Research, 2010, 115, .	3.3	7
88	Gone with the wind: Eolian erasure of the Mars Rover tracks. Journal of Geophysical Research, 2010, 115, .	3.3	40
89	Exploration of Victoria Crater by the Mars Rover Opportunity. Science, 2009, 324, 1058-1061.	6.0	141
90	Spectral, mineralogical, and geochemical variations across Home Plate, Gusev Crater, Mars indicate high and low temperature alteration. Earth and Planetary Science Letters, 2009, 281, 258-266.	1.8	48

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91	Overview of the magnetic properties experiments on the Mars Exploration Rovers. Journal of Geophysical Research, 2009, 114, .	3.3	31
92	Veneers, rinds, and fracture fills: Relatively late alteration of sedimentary rocks at Meridiani Planum, Mars. Journal of Geophysical Research, 2008, 113, .	3.3	57
93	Surface albedo observations at Gusev Crater and Meridiani Planum, Mars. Journal of Geophysical Research, 2008, 113, .	3.3	37
94	Hydrothermal processes at Gusev Crater: An evaluation of Paso Robles class soils. Journal of Geophysical Research, 2008, 113, .	3.3	129
95	Meteorites on Mars observed with the Mars Exploration Rovers. Journal of Geophysical Research, 2008, 113, .	3.3	75
96	Mars Exploration Rover Navigation Camera inâ€flight calibration. Journal of Geophysical Research, 2008, 113, .	3.3	12
97	Hydrothermal origin of halogens at Home Plate, Gusev Crater. Journal of Geophysical Research, 2008, 113, .	3.3	71
98	Hematite spherules at Meridiani: Results from MI, Miniâ€TES, and Pancam. Journal of Geophysical Research, 2008, 113, .	3.3	38
99	Surface processes recorded by rocks and soils on Meridiani Planum, Mars: Microscopic Imager observations during Opportunity's first three extended missions. Journal of Geophysical Research, 2008, 113, .	3.3	39
100	Windâ€driven particle mobility on Mars: Insights from Mars Exploration Rover observations at â€œEl Doradoâ€•and surroundings at Gusev Crater. Journal of Geophysical Research, 2008, 113, .	3.3	255
101	First in situ investigation of a dark wind streak on Mars. Journal of Geophysical Research, 2008, 113, .	3.3	42
102	Lightâ€toned salty soils and coexisting Siâ€rich species discovered by the Mars Exploration Rover Spirit in Columbia Hills. Journal of Geophysical Research, 2008, 113, .	3.3	108
103	Spirit Mars Rover Mission to the Columbia Hills, Gusev Crater: Mission overview and selected results from the Cumberland Ridge to Home Plate. Journal of Geophysical Research, 2008, 113, .	3.3	99
104	Rock spectral classes observed by the Spirit Rover's Pancam on the Gusev Crater Plains and in the Columbia Hills. Journal of Geophysical Research, 2008, 113, .	3.3	37
105	Thermal infrared spectroscopy and modeling of experimentally shocked basalts. American Mineralogist, 2007, 92, 1148-1157.	0.9	21
106	Dust deposition on the Mars Exploration Rover Panoramic Camera (Pancam) calibration targets. Journal of Geophysical Research, 2007, 112, .	3.3	67
107	Visible and near-infrared multispectral analysis of rocks at Meridiani Planum, Mars, by the Mars Exploration Rover Opportunity. Journal of Geophysical Research, 2007, 112, .	3.3	56
108	Mineralogic constraints on sulfurâ€rich soils from Pancam spectra at Gusev crater, Mars. Geophysical Research Letters, 2007, 34, .	1.5	89

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109	Coordinated analyses of orbital and Spirit Rover data to characterize surface materials on the cratered plains of Gusev Crater, Mars. Journal of Geophysical Research, 2007, 112, .	3.3	29
110	Pyroclastic Activity at Home Plate in Gusev Crater, Mars. Science, 2007, 316, 738-742.	6.0	174
111	Overview of the Opportunity Mars Exploration Rover Mission to Meridiani Planum: Eagle Crater to Purgatory Ripple. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	149
112	Characterization and petrologic interpretation of olivine-rich basalts at Gusev Crater, Mars. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	227
113	Spectrophotometric properties of materials observed by Pancam on the Mars Exploration Rovers: 1. Spirit. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	49
114	Spectral variability among rocks in visible and near-infrared multispectral Pancam data collected at Gusev crater: Examinations using spectral mixture analysis and related techniques. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	68
115	Overview of the Spirit Mars Exploration Rover Mission to Gusev Crater: Landing site to Backstay Rock in the Columbia Hills. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	238
116	Soil grain analyses at Meridiani Planum, Mars. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	75
117	Overview of the Microscopic Imager Investigation during Spirit's first 450 sols in Gusev crater. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	64
118	Radiative transfer modeling of dust-coated Pancam calibration target materials: Laboratory visible/near-infrared spectrogoniometry. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	31
119	Nature and origin of the hematite-bearing plains of Terra Meridiani based on analyses of orbital and Mars Exploration rover data sets. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	144
120	The rocks of Gusev Crater as viewed by the Mini-TES instrument. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	115
121	Sedimentary textures formed by aqueous processes, Erebus crater, Meridiani Planum, Mars. Geology, 2006, 34, 1085.	2.0	84
122	Spectrophotometric properties of materials observed by Pancam on the Mars Exploration Rovers: 2. Opportunity. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	36
123	Two Years at Meridiani Planum: Results from the Opportunity Rover. Science, 2006, 313, 1403-1407.	6.0	188
124	Bedrock formation at Meridiani Planum. Nature, 2006, 443, E1-E2.	13.7	28
125	Shocked plagioclase signatures in Thermal Emission Spectrometer data of Mars. Icarus, 2006, 180, 60-74.	1.1	19
126	An integrated view of the chemistry and mineralogy of martian soils. Nature, 2005, 436, 49-54.	13.7	348

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127	Provenance and diagenesis of the evaporite-bearing Burns formation, Meridiani Planum, Mars. Earth and Planetary Science Letters, 2005, 240, 95-121.	1.8	506
128	Wind-Related Processes Detected by the Spirit Rover at Gusev Crater, Mars. Science, 2004, 305, 810-813.	6.0	94
129	Soils of Eagle Crater and Meridiani Planum at the Opportunity Rover Landing Site. Science, 2004, 306, 1723-1726.	6.0	153
130	Textures of the Soils and Rocks at Gusev Crater from Spirit's Microscopic Imager. Science, 2004, 305, 824-826.	6.0	130
131	Evidence from Opportunity's Microscopic Imager for Water on Meridiani Planum. Science, 2004, 306, 1727-1730.	6.0	146
132	Pancam Multispectral Imaging Results from the Spirit Rover at Gusev Crater. Science, 2004, 305, 800-806.	6.0	153
133	Pancam Multispectral Imaging Results from the Opportunity Rover at Meridiani Planum. Science, 2004, 306, 1703-1709.	6.0	135
134	Initial Results from the Mini-TES Experiment in Gusev Crater from the Spirit Rover. Science, 2004, 305, 837-842.	6.0	168
135	In Situ Evidence for an Ancient Aqueous Environment at Meridiani Planum, Mars. Science, 2004, 306, 1709-1714.	6.0	845
136	Mineralogy at Meridiani Planum from the Mini-TES Experiment on the Opportunity Rover. Science, 2004, 306, 1733-1739.	6.0	370
137	Localization and Physical Properties Experiments Conducted by Spirit at Gusev Crater. Science, 2004, 305, 821-824.	6.0	166
138	The Spirit Rover's Athena Science Investigation at Gusev Crater, Mars. Science, 2004, 305, 794-799.	6.0	404
139	The Opportunity Rover's Athena Science Investigation at Meridiani Planum, Mars. Science, 2004, 306, 1698-1703.	6.0	507
140	Basaltic Rocks Analyzed by the Spirit Rover in Gusev Crater. Science, 2004, 305, 842-845.	6.0	244
141	Visible/near-infrared spectrogoniometric observations and modeling of dust-coated rocks. Icarus, 2004, 171, 546-556.	1.1	24
142	Basaltic rocks analyzed by the Spirit Rover in Gusev Crater. Science, 2004, 305, 842-5.	6.0	9
143	Textures of the soils and rocks at Gusev Crater from Spirit's Microscopic Imager. Science, 2004, 305, 824-6.	6.0	7
144	The Spirit Rover's Athena science investigation at Gusev Crater, Mars. Science, 2004, 305, 794-9.	6.0	27

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145	Dust deposition at the Mars Pathfinder landing site: observations and modeling of visible/near-infrared spectra. Icarus, 2003, 163, 330-346.	1.1	63
146	Mars Exploration Rover Athena Panoramic Camera (Pancam) investigation. Journal of Geophysical Research, 2003, 108, .	3.3	247
147	Visible/near-infrared spectra of experimentally shocked plagioclase feldspars. Journal of Geophysical Research, 2003, 108, .	3.3	52
148	Thermal infrared spectroscopy and modeling of experimentally shocked plagioclase feldspars. American Mineralogist, 2003, 88, 1575-1582.	0.9	45
149	Thermal infrared spectroscopy of experimentally shocked anorthosite and pyroxenite: Implications for remote sensing of Mars. Journal of Geophysical Research, 2002, 107, 3-1.	3.3	67
150	Dust coatings on basaltic rocks and implications for thermal infrared spectroscopy of Mars. Journal of Geophysical Research, 2002, 107, 2-1.	3.3	52
151	Lunar Prospector epithermal neutrons from impact craters and landing sites: Implications for surface maturity and hydrogen distribution. Journal of Geophysical Research, 2002, 107, 3-1.	3.3	14
152	Low Abundance Materials at the Mars Pathfinder Landing Site: An Investigation Using Spectral Mixture Analysis and Related Techniques. Icarus, 2002, 158, 56-71.	1.1	25
153	Geological characterization of remote field sites using visible and infrared spectroscopy: Results from the 1999 Marsokhod field test. Journal of Geophysical Research, 2001, 106, 7683-7711.	3.3	19
154	The 1999 Marsokhod rover mission simulation at Silver Lake, California: Mission overview, data sets, and summary of results. Journal of Geophysical Research, 2001, 106, 7639-7663.	3.3	30
155	Visible/near-infrared spectra and two-layer modeling of palagonite-coated basalts. Geophysical Research Letters, 2001, 28, 2101-2104.	1.5	42
156	Search for life on Mars in surface samples: Lessons from the 1999 Marsokhod rover field experiment. Journal of Geophysical Research, 2001, 106, 7713-7720.	3.3	12
157	Techniques for identifying dust devils in Mars Pathfinder images. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 870-876.	2.7	13
158	Mineralogic and compositional properties of Martian soil and dust: Results from Mars Pathfinder. Journal of Geophysical Research, 2000, 105, 1721-1755.	3.3	274
159	New views of the Moon: Improved understanding through data integration. Eos, 2000, 81, 349.	0.1	18
160	Imager for Mars Pathfinder (IMP) image calibration. Journal of Geophysical Research, 1999, 104, 8907-8925.	3.3	75
161	Preliminary results on photometric properties of materials at the Sagan Memorial Station, Mars. Journal of Geophysical Research, 1999, 104, 8809-8830.	3.3	71
162	Chemical, multispectral, and textural constraints on the composition and origin of rocks at the Mars Pathfinder landing site. Journal of Geophysical Research, 1999, 104, 8679-8715.	3.3	226

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163	Overview of the Mars Pathfinder Mission: Launch through landing, surface operations, data sets, and science results. Journal of Geophysical Research, 1999, 104, 8523-8553.	3.3	121
164	The color of the Martian sky and its influence on the illumination of the Martian surface. Journal of Geophysical Research, 1999, 104, 8795-8808.	3.3	54
165	Estimated solar wind-implanted helium-3 distribution on the Moon. Geophysical Research Letters, 1999, 26, 385-388.	1.5	46
166	Digital photogrammetric analysis of the IMP camera images: Mapping the Mars Pathfinder landing site in three dimensions. Journal of Geophysical Research, 1999, 104, 8869-8887.	3.3	36
167	Digital mapping of the Mars Pathfinder landing site: Design, acquisition, and derivation of cartographic products for science applications. Journal of Geophysical Research, 1999, 104, 8853-8868.	3.3	9
168	Dust devil vortices seen by the Mars Pathfinder Camera. Geophysical Research Letters, 1999, 26, 2781-2784.	1.5	152
169	Infrared Measurements of Pristine and Disturbed Soils 1. Spectral Contrast Differences between Field and Laboratory Data. Remote Sensing of Environment, 1998, 64, 34-46.	4.6	54
170	Infrared Measurements of Pristine and Disturbed Soils 2. Environmental Effects and Field Data Reduction. Remote Sensing of Environment, 1998, 64, 47-52.	4.6	46
171	Results from the Mars Pathfinder Camera. Science, 1997, 278, 1758-1765.	6.0	242
172	Modeling of fluidized ejecta emplacement over digital topography on Venus. Journal of Geophysical Research, 1996, 101, 4673-4682.	3.3	4
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