

James F Bell, Iii

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3356309/james-f-bell-iii-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

155
papers

11,892
citations

61
h-index

107
g-index

163
ext. papers

13,498
ext. citations

11.8
avg, IF

5.21
L-index

#	Paper	IF	Citations
155	Context Camera Investigation on board the Mars Reconnaissance Orbiter. <i>Journal of Geophysical Research</i> , 2007 , 112,		779
154	The Spirit Rover's Athena Science Investigation at Gusev Crater, Mars. <i>Science</i> , 2004 , 305, 794-799	33.3	358
153	Mineralogy of a mudstone at Yellowknife Bay, Gale crater, Mars. <i>Science</i> , 2014 , 343, 1243480	33.3	344
152	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	7.5	336
151	Detection of silica-rich deposits on Mars. <i>Science</i> , 2008 , 320, 1063-7	33.3	330
150	An integrated view of the chemistry and mineralogy of martian soils. <i>Nature</i> , 2005 , 436, 49-54	50.4	299
149	Martian fluvial conglomerates at Gale crater. <i>Science</i> , 2013 , 340, 1068-72	33.3	269
148	Mineralogy, composition, and alteration of Mars Pathfinder rocks and soils: Evidence from multispectral, elemental, and magnetic data on terrestrial analogue, SNC meteorite, and Pathfinder samples. <i>Journal of Geophysical Research</i> , 2000 , 105, 1757-1817		264
147	Basaltic Rocks Analyzed by the Spirit Rover in Gusev Crater. <i>Science</i> , 2004 , 305, 842-845	33.3	228
146	Mineralogic and compositional properties of Martian soil and dust: Results from Mars Pathfinder. <i>Journal of Geophysical Research</i> , 2000 , 105, 1721-1755		225
145	Curiosity at Gale crater, Mars: characterization and analysis of the Rocknest sand shadow. <i>Science</i> , 2013 , 341, 1239505	33.3	222
144	Results from the Mars Pathfinder camera. <i>Science</i> , 1997 , 278, 1758-65	33.3	216
143	Water alteration of rocks and soils on Mars at the Spirit rover site in Gusev crater. <i>Nature</i> , 2005 , 436, 66-9	50.4	215
142	Characterization and petrologic interpretation of olivine-rich basalts at Gusev Crater, Mars. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		203
141	Aeolian processes at the Mars Exploration Rover Meridiani Planum landing site. <i>Nature</i> , 2005 , 436, 58-61	50.4	200
140	Wind-driven particle mobility on Mars: Insights from Mars Exploration Rover observations at El Dorado and surroundings at Gusev Crater. <i>Journal of Geophysical Research</i> , 2008 , 113,		199
139	Athena Mars rover science investigation. <i>Journal of Geophysical Research</i> , 2003 , 108,		199

138	Overview of the Spirit Mars Exploration Rover Mission to Gusev Crater: Landing site to Backstay Rock in the Columbia Hills. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		198
137	Mars Exploration Rover Athena Panoramic Camera (Pancam) investigation. <i>Journal of Geophysical Research</i> , 2003 , 108,		197
136	Atmospheric imaging results from the Mars exploration rovers: Spirit and Opportunity. <i>Science</i> , 2004 , 306, 1753-6	33.3	180
135	Erosion rates at the Mars Exploration Rover landing sites and long-term climate change on Mars. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		175
134	Ancient impact and aqueous processes at Endeavour Crater, Mars. <i>Science</i> , 2012 , 336, 570-6	33.3	153
133	Localization and physical properties experiments conducted by Spirit at Gusev Crater. <i>Science</i> , 2004 , 305, 821-4	33.3	148
132	Curiosity's Mars Hand Lens Imager (MAHLI) Investigation. <i>Space Science Reviews</i> , 2012 , 170, 259-317	7.5	142
131	Pancam multispectral imaging results from the Spirit Rover at Gusev Crater. <i>Science</i> , 2004 , 305, 800-6	33.3	141
130	Mars Exploration Rover Engineering Cameras. <i>Journal of Geophysical Research</i> , 2003 , 108,		138
129	Observational evidence of crystalline iron oxides on Mars. <i>Journal of Geophysical Research</i> , 1990 , 95, 14447		138
128	Ancient aqueous environments at Endeavour crater, Mars. <i>Science</i> , 2014 , 343, 1248097	33.3	132
127	Constraints on dust aerosols from the Mars Exploration Rovers using MGS overflights and Mini-TES. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		128
126	Evidence from Opportunity's Microscopic Imager for water on Meridiani Planum. <i>Science</i> , 2004 , 306, 1727-30	33.3	128
125	Alkaline volcanic rocks from the Columbia Hills, Gusev crater, Mars. <i>Journal of Geophysical Research</i> , 2006 , 111,		127
124	Nature and origin of the hematite-bearing plains of Terra Meridiani based on analyses of orbital and Mars Exploration rover data sets. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		127
123	Characteristics, distribution, origin, and significance of opaline silica observed by the Spirit rover in Gusev crater, Mars. <i>Journal of Geophysical Research</i> , 2011 , 116,		123
122	Overview of the Opportunity Mars Exploration Rover Mission to Meridiani Planum: Eagle Crater to Purgatory Ripple. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		123
121	Evolved gas analyses of sedimentary rocks and eolian sediment in Gale Crater, Mars: Results of the Curiosity rover's sample analysis at Mars instrument from Yellowknife Bay to the Namib Dune. <i>Journal of Geophysical Research E: Planets</i> , 2017 , 122, 2574-2609	4.1	121

120	Textures of the Soils and Rocks at Gusev Crater from Spirit's Microscopic Imager. <i>Science</i> , 2004 , 305, 824-826	33.3	119
119	Pigmenting agents in Martian soils: inferences from spectral, Mossbauer, and magnetic properties of nanophase and other iron oxides in Hawaiian palagonitic soil PN-9. <i>Geochimica Et Cosmochimica Acta</i> , 1993 , 57, 4597-609	5.5	118
118	Dust aerosol, clouds, and the atmospheric optical depth record over 5 Mars years of the Mars Exploration Rover mission. <i>Icarus</i> , 2015 , 251, 96-111	3.8	114
117	Physical properties of the Mars Exploration Rover landing sites as inferred from Mini-TES derived thermal inertia. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		113
116	Athena Microscopic Imager investigation. <i>Journal of Geophysical Research</i> , 2003 , 108,		109
115	Pancam multispectral imaging results from the Opportunity Rover at Meridiani Planum. <i>Science</i> , 2004 , 306, 1703-9	33.3	107
114	Ancient Martian aeolian processes and palaeomorphology reconstructed from the Stimson formation on the lower slope of Aeolis Mons, Gale crater, Mars. <i>Sedimentology</i> , 2018 , 65, 993-1042	3.3	104
113	Near-infrared spectra of ferrous mineral mixtures and methods for their identification in planetary surface spectra. <i>Icarus</i> , 2014 , 234, 132-154	3.8	98
112	Geology of the Gusev cratered plains from the Spirit rover traverse. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		95
111	In-flight calibration and performance of the Mars Exploration Rover Panoramic Camera (Pancam) instruments. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		93
110	Spirit Mars Rover Mission: Overview and selected results from the northern Home Plate Winter Haven to the side of Scamander crater. <i>Journal of Geophysical Research</i> , 2010 , 115,		87
109	Light-toned salty soils and coexisting Si-rich species discovered by the Mars Exploration Rover Spirit in Columbia Hills. <i>Journal of Geophysical Research</i> , 2008 , 113,		83
108	The Mars Science Laboratory (MSL) Mast cameras and Descent imager: Investigation and instrument descriptions. <i>Earth and Space Science</i> , 2017 , 4, 506-539	3.1	78
107	Spirit Mars Rover Mission to the Columbia Hills, Gusev Crater: Mission overview and selected results from the Cumberland Ridge to Home Plate. <i>Journal of Geophysical Research</i> , 2008 , 113,		78
106	Space weathering on Eros: Constraints from albedo and spectral measurements of Psyche crater. <i>Meteoritics and Planetary Science</i> , 2001 , 36, 1617-1637	2.8	76
105	Oxidation of manganese in an ancient aquifer, Kimberley formation, Gale crater, Mars. <i>Geophysical Research Letters</i> , 2016 , 43, 7398-7407	4.9	76
104	Opportunity Mars Rover mission: Overview and selected results from Purgatory ripple to traverses to Endeavour crater. <i>Journal of Geophysical Research</i> , 2011 , 116,		74
103	The composition of 433 Eros: A mineralogical chemical synthesis. <i>Meteoritics and Planetary Science</i> , 2001 , 36, 1661-1672	2.8	74

102	Mars 2020 Mission Overview. <i>Space Science Reviews</i> , 2020 , 216, 1	7.5	72
101	Magnetic properties experiments on the Mars exploration Rover Spirit at Gusev Crater. <i>Science</i> , 2004 , 305, 827-9	33.3	71
100	Soil grain analyses at Meridiani Planum, Mars. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		69
99	Mineralogic constraints on sulfur-rich soils from Pancam spectra at Gusev crater, Mars. <i>Geophysical Research Letters</i> , 2007 , 34, n/a-n/a	4.9	68
98	The influence of multivariate analysis methods and target grain size on the accuracy of remote quantitative chemical analysis of rocks using laser induced breakdown spectroscopy. <i>Icarus</i> , 2011 , 215, 608-627	3.8	67
97	Imager for Mars Pathfinder (IMP) image calibration. <i>Journal of Geophysical Research</i> , 1999 , 104, 8907-8925		66
96	The Mars Science Laboratory Curiosity rover Mastcam instruments: Preflight and in-flight calibration, validation, and data archiving. <i>Earth and Space Science</i> , 2017 , 4, 396-452	3.1	65
95	Evidence for montmorillonite or its compositional equivalent in Columbia Hills, Mars. <i>Journal of Geophysical Research</i> , 2007 , 112,		65
94	Structure and stratigraphy of Home Plate from the Spirit Mars Exploration Rover. <i>Journal of Geophysical Research</i> , 2008 , 113,		61
93	Preliminary results on photometric properties of materials at the Sagan Memorial Station, Mars. <i>Journal of Geophysical Research</i> , 1999 , 104, 8809-8830		60
92	New composite reflectance spectra of Mars from 0.4 to 3.14 μ m. <i>Geophysical Research Letters</i> , 1994 , 21, 353-356	4.9	60
91	Hematite, pyroxene, and phyllosilicates on Mars: Implications from oxidized impact melt rocks from Manicouagan Crater, Quebec, Canada. <i>Journal of Geophysical Research</i> , 1995 , 100, 5319		59
90	Overview of the Microscopic Imager Investigation during Spirit's first 450 sols in Gusev crater. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		58
89	Mars Reconnaissance Orbiter Mars Color Imager (MARCI): Instrument description, calibration, and performance. <i>Journal of Geophysical Research</i> , 2009 , 114,		56
88	Nickel on Mars: Constraints on meteoritic material at the surface. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		56
87	Low-temperature reflectivity spectra of red hematite and the color of Mars. <i>Journal of Geophysical Research</i> , 1997 , 102, 9125-9133		55
86	Dust deposition on the Mars Exploration Rover Panoramic Camera (Pancam) calibration targets. <i>Journal of Geophysical Research</i> , 2007 , 112,		55
85	Spectral variability among rocks in visible and near-infrared multispectral Pancam data collected at Gusev crater: Examinations using spectral mixture analysis and related techniques. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		55

84	Distribution of hydrated minerals in the north polar region of Mars. <i>Journal of Geophysical Research</i> , 2009 , 114,		51
83	Veneers, rinds, and fracture fills: Relatively late alteration of sedimentary rocks at Meridiani Planum, Mars. <i>Journal of Geophysical Research</i> , 2008 , 113,		48
82	Characterization of previously unidentified lunar pyroclastic deposits using Lunar Reconnaissance Orbiter Camera data. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		46
81	Visible and near-infrared multispectral analysis of rocks at Meridiani Planum, Mars, by the Mars Exploration Rover Opportunity. <i>Journal of Geophysical Research</i> , 2007 , 112,		46
80	Sulfate-Rich Eolian and Wet Interdune Deposits, Erebus Crater, Meridiani Planum, Mars. <i>Journal of Sedimentary Research</i> , 2009 , 79, 247-264	2.1	45
79	Shaler: in situ analysis of a fluvial sedimentary deposit on Mars. <i>Sedimentology</i> , 2018 , 65, 96-122	3.3	40
78	Mineralogical interpretation of reflectance spectra of Eros from NEAR near-infrared spectrometer low phase flyby. <i>Meteoritics and Planetary Science</i> , 2001 , 36, 1711-1726	2.8	40
77	High concentrations of manganese and sulfur in deposits on Murray Ridge, Endeavour Crater, Mars. <i>American Mineralogist</i> , 2016 , 101, 1389-1405	2.9	40
76	Spectrophotometric properties of materials observed by Pancam on the Mars Exploration Rovers: 1. Spirit. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		38
75	Spectral reflectance properties of carbonaceous chondrites: 6. CV chondrites. <i>Icarus</i> , 2012 , 221, 328-358	3.8	37
74	Visible/near-infrared spectral diversity from in situ observations of the Bagnold Dune Field sands in Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2017 , 122, 2655-2684	4.1	36
73	Dust deposition on the decks of the Mars Exploration Rovers: 10 years of dust dynamics on the Panoramic Camera calibration targets. <i>Earth and Space Science</i> , 2015 , 2, 144-172	3.1	36
72	Spectral reflectance reconstruction of the Murchison CM2 carbonaceous chondrite and implications for spectroscopic investigations of dark asteroids. <i>Icarus</i> , 2018 , 305, 203-224	3.8	33
71	Visible to near-infrared MSL/Mastcam multispectral imaging: Initial results from select high-interest science targets within Gale Crater, Mars. <i>American Mineralogist</i> , 2017 , 102, 1202-1217	2.9	32
70	Clustering and training set selection methods for improving the accuracy of quantitative laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012 , 70, 24-32	3.1	31
69	Spectral properties and geologic processes on Eros from combined NEAR NIS and MSI data sets. <i>Meteoritics and Planetary Science</i> , 2003 , 38, 1053-1077	2.8	31
68	Large Dust Aerosol Sizes Seen During the 2018 Martian Global Dust Event by the Curiosity Rover. <i>Geophysical Research Letters</i> , 2019 , 46, 9448-9456	4.9	30
67	Surface albedo observations at Gusev Crater and Meridiani Planum, Mars. <i>Journal of Geophysical Research</i> , 2008 , 113,		30

66	The Hypanis Valles delta: The last highstand of a sea on early Mars?. <i>Earth and Planetary Science Letters</i> , 2018 , 500, 225-241	5.3	29
65	Hematite spherules at Meridiani: Results from MI, Mini-TES, and Pancam. <i>Journal of Geophysical Research</i> , 2008 , 113,		29
64	Martian surface properties from joint analysis of orbital, Earth-based, and surface observations	468-498	28
63	The Mars 2020 Rover Mast Camera Zoom (Mastcam-Z) Multispectral, Stereoscopic Imaging Investigation. <i>Space Science Reviews</i> , 2021 , 217, 24	7.5	27
62	Mars Reconnaissance Orbiter and Opportunity observations of the Burns formation: Crater hopping at Meridiani Planum. <i>Journal of Geophysical Research E: Planets</i> , 2015 , 120, 429-451	4.1	26
61	Rock spectral classes observed by the Spirit Rover's Pancam on the Gusev Crater Plains and in the Columbia Hills. <i>Journal of Geophysical Research</i> , 2008 , 113,		26
60	Coordinated analyses of orbital and Spirit Rover data to characterize surface materials on the cratered plains of Gusev Crater, Mars. <i>Journal of Geophysical Research</i> , 2007 , 112,		26
59	A global survey of martian central mounds: Central mounds as remnants of previously more extensive large-scale sedimentary deposits. <i>Icarus</i> , 2016 , 264, 331-341	3.8	25
58	Solar eclipses of Phobos and Deimos observed from the surface of Mars. <i>Nature</i> , 2005 , 436, 55-7	50.4	25
57	Radiative transfer modeling of dust-coated Pancam calibration target materials: Laboratory visible/near-infrared spectrogoniometry. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		24
56	The Spirit Rover's Athena science investigation at Gusev Crater, Mars. <i>Science</i> , 2004 , 305, 794-9	33.3	24
55	Overview of the magnetic properties experiments on the Mars Exploration Rovers. <i>Journal of Geophysical Research</i> , 2009 , 114,		23
54	Surface processes recorded by rocks and soils on Meridiani Planum, Mars: Microscopic Imager observations during Opportunity's first three extended missions. <i>Journal of Geophysical Research</i> , 2008 , 113,		23
53	Spectrophotometric properties of materials observed by Pancam on the Mars Exploration Rovers: 2. Opportunity. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		23
52	Constraints on iron sulfate and iron oxide mineralogy from ChemCam visible/near-infrared reflectance spectroscopy of Mt. Sharp basal units, Gale Crater, Mars. <i>American Mineralogist</i> , 2016 , 101, 1501-1514	2.9	23
51	VNIR multispectral observations of rocks at Cape York, Endeavour crater, Mars by the Opportunity rover's Pancam. <i>Icarus</i> , 2013 , 225, 709-725	3.8	19
50	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019 , 12, 3900-3918	4.7	18
49	Field reconnaissance geologic mapping of the Columbia Hills, Mars, based on Mars Exploration Rover Spirit and MRO HiRISE observations. <i>Journal of Geophysical Research</i> , 2011 , 116,		18

48	Calibration and in-flight performance of the Mars Odyssey Thermal Emission Imaging System visible imaging subsystem (THEMIS VIS). <i>Journal of Geophysical Research</i> , 2006 , 111,		18
47	Chromaticity of the Martian sky as observed by the Mars Exploration Rover Pancam instruments. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		18
46	Diverse Lithologies and Alteration Events on the Rim of Noachian-Aged Endeavour Crater, Meridiani Planum, Mars: In Situ Compositional Evidence. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 1255-1306	4.1	17
45	Temporal observations of bright soil exposures at Gusev crater, Mars. <i>Journal of Geophysical Research</i> , 2011 , 116,		17
44	Microscopy analysis of soils at the Phoenix landing site, Mars: Classification of soil particles and description of their optical and magnetic properties. <i>Journal of Geophysical Research</i> , 2010 , 115,		17
43	Synergistic Ground and Orbital Observations of Iron Oxides on Mt. Sharp and Vera Rubin Ridge. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2019JE006294	4.1	17
42	Hypotheses for the origin of the Hypanis fan-shaped deposit at the edge of the Chryse escarpment, Mars: Is it a delta?. <i>Icarus</i> , 2019 , 319, 885-908	3.8	16
41	Bounce Rock shergottite-like basalt encountered at Meridiani Planum, Mars. <i>Meteoritics and Planetary Science</i> , 2011 , 46, no-no	2.8	16
40	Diagenesis of Vera Rubin Ridge, Gale Crater, Mars, From Mastcam Multispectral Images. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2019JE006322	4.1	16
39	Sands at Gusev Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2014 , 119, 941-967	4.1	15
38	Perseverance rover reveals an ancient delta-lake system and flood deposits at Jezero crater, Mars. <i>Science</i> , 2021 , 374, 711-717	33.3	15
37	Spectral, Compositional, and Physical Properties of the Upper Murray Formation and Vera Rubin Ridge, Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2019JE006290	4.1	15
36	Bagnold Dunes Campaign Phase 2: Visible/Near-Infrared Reflectance Spectroscopy of Longitudinal Ripple Sands. <i>Geophysical Research Letters</i> , 2018 , 45, 9480-9487	4.9	14
35	High resolution mapping of TiO ₂ abundances on the Moon using the Hubble Space Telescope. <i>Geophysical Research Letters</i> , 2007 , 34, n/a-n/a	4.9	14
34	VNIR multispectral observations of aqueous alteration materials by the Pancams on the Spirit and Opportunity Mars Exploration Rovers. <i>American Mineralogist</i> , 2016 , 101, 2005-2019	2.9	14
33	Demosaicing enhancement using pixel-level fusion. <i>Signal, Image and Video Processing</i> , 2018 , 12, 749-756	4.6	13
32	Pre-Flight Calibration of the Mars 2020 Rover Mastcam Zoom (Mastcam-Z) Multispectral, Stereoscopic Imager. <i>Space Science Reviews</i> , 2021 , 217, 29	7.5	12
31	Mars Exploration Rover Navigation Camera in-flight calibration. <i>Journal of Geophysical Research</i> , 2008 , 113,		11

30	Analysis of a spectrally unique deposit in the dissected Noachian terrain of Mars. <i>Journal of Geophysical Research</i> , 2006 , 111,			11
29	Enhancing Mastcam Images for Mars Rover Mission. <i>Lecture Notes in Computer Science</i> , 2017 , 197-206	0.9		11
28	Spectrophotometric properties of materials observed by Pancam on the Mars Exploration Rovers: 3. Sols 500-525. <i>Icarus</i> , 2015 , 248, 25-71	3.8		10
27	Hypotheses for the origin of fine-grained sedimentary rocks at Santa Maria crater, Meridiani Planum. <i>Icarus</i> , 2014 , 234, 36-44	3.8		10
26	Correlating multispectral imaging and compositional data from the Mars Exploration Rovers and implications for Mars Science Laboratory. <i>Icarus</i> , 2013 , 223, 157-180	3.8		10
25	Synoptic measurements of Martian winds using the Hubble Space Telescope. <i>Geophysical Research Letters</i> , 1998 , 25, 611-614	4.9		10
24	Radiometric Calibration Targets for the Mastcam-Z Camera on the Mars 2020 Rover Mission. <i>Space Science Reviews</i> , 2020 , 216, 1	7.5		9
23	Mars Exploration Rover Pancam multispectral imaging of rocks, soils, and dust at Gusev crater and Meridiani Planum 281-314			8
22	Context-dependent image quality assessment of JPEG compressed Mars Science Laboratory Mastcam images using convolutional neural networks. <i>Computers and Geosciences</i> , 2018 , 118, 109-121	4.5		8
21	Comparison of Deep Learning and Conventional Demosaicing Algorithms for Mastcam Images. <i>Electronics (Switzerland)</i> , 2019 , 8, 308	2.6		7
20	Visible to near-IR multispectral orbital observations of Mars 169-192			7
19	Physical properties of the Martian surface from spectrophotometric observations 428-450			7
18	Lucy Mission to the Trojan Asteroids: Science Goals. <i>Planetary Science Journal</i> , 2021 , 2, 171	2.9		7
17	Multispectral imaging from Mars Pathfinder 263-280			6
16	The albedo of Mars: Six Mars years of observations from Pancam on the Mars Exploration Rovers and comparisons to MOC, CTX and HiRISE. <i>Icarus</i> , 2018 , 314, 159-174	3.8		6
15	Diagenesis of Vera Rubin ridge, Gale crater, Mars from Mastcam multispectral images			6
14	Comparison of novelty detection methods for multispectral images in rover-based planetary exploration missions. <i>Data Mining and Knowledge Discovery</i> , 2020 , 34, 1642-1675	5.6		5
13	Exploration of the Martian surface: 1992-2007 3-19			4

12	TES spectroscopic identification of a region of persistent water ice clouds on the flanks of Arsia Mons Volcano, Mars. <i>Journal of Geophysical Research</i> , 2005 , 110,		4
11	Lucy Mission to the Trojan Asteroids: Instrumentation and Encounter Concept of Operations. <i>Planetary Science Journal</i> , 2021 , 2, 172	2.9	4
10	Overview of Spirit Microscopic Imager Results. <i>Journal of Geophysical Research E: Planets</i> , 2019 , 124, 528-584	4.1	3
9	THEMIS-VIS Investigations of Sand at Gale Crater. <i>Earth and Space Science</i> , 2018 , 5, 352-363	3.1	3
8	Historical context: the pre-MGS view of Mars' surface composition20-30		3
7	Spectrophotometry from Mars Hand Lens Imager goniometer measurements: Kimberley region, Gale crater. <i>Icarus</i> , 2020 , 335, 113361	3.8	2
6	HST studies of Mars 2003 , 1-24		1
5	The ChemCam Instrument Suite on the Mars Science Laboratory (MSL) Rover: Body Unit and Combined System Tests 2012 , 167-227		0
4	An Instrument Anomaly in the Mars Exploration Rover Pancam 1,009-nm Filter (R7): Characterization, Simulation, Correction, and Preliminary Verification. <i>Earth and Space Science</i> , 2019 , 6, 96-115	3.1	
3	Laser-Induced Breakdown Spectroscopy 2019 , 168-190		
2	Water on Planets. <i>Proceedings of the International Astronomical Union</i> , 2009 , 5, 29-44		0.1
1	The future of Mars exploration627-630		