

Janice Bishop

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

157
papers

8,851
citations

51
h-index

91
g-index

166
ext. papers

9,835
ext. citations

4.8
avg, IF

5.67
L-index

#	Paper	IF	Citations
157	Hydrated silicate minerals on Mars observed by the Mars Reconnaissance Orbiter CRISM instrument. <i>Nature</i> , 2008 , 454, 305-9	50.4	547
156	Orbital identification of carbonate-bearing rocks on Mars. <i>Science</i> , 2008 , 322, 1828-32	33.3	470
155	Identification of hydrated silicate minerals on Mars using MRO-CRISM: Geologic context near Nili Fossae and implications for aqueous alteration. <i>Journal of Geophysical Research</i> , 2009 , 114,		373
154	A synthesis of Martian aqueous mineralogy after 1 Mars year of observations from the Mars Reconnaissance Orbiter. <i>Journal of Geophysical Research</i> , 2009 , 114,		354
153	Reflectance and emission spectroscopy study of four groups of phyllosilicates: smectites, kaolinite-serpentines, chlorites and micas. <i>Clay Minerals</i> , 2008 , 43, 35-54	1.3	337
152	Infrared Spectroscopic Analyses on the Nature of Water in Montmorillonite. <i>Clays and Clay Minerals</i> , 1994 , 42, 702-716	2.1	296
151	Phyllosilicate diversity and past aqueous activity revealed at Mawrth Vallis, Mars. <i>Science</i> , 2008 , 321, 830-3	33.3	283
150	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
149	The impact and recovery of asteroid 2008 TC(3). <i>Nature</i> , 2009 , 458, 485-8	50.4	262
148	Opaline silica in young deposits on Mars. <i>Geology</i> , 2008 , 36, 847	5	259
147	Mineralogic and compositional properties of Martian soil and dust: Results from Mars Pathfinder. <i>Journal of Geophysical Research</i> , 2000 , 105, 1721-1755		225
146	The visible and infrared spectral properties of jarosite and alunite. <i>American Mineralogist</i> , 2005 , 90, 1100-1107	11.07	148
145	An improvement to the volcano-scan algorithm for atmospheric correction of CRISM and OMEGA spectral data. <i>Planetary and Space Science</i> , 2009 , 57, 809-815	2	147
144	The influence of structural Fe, Al and Mg on the infrared OH bands in spectra of dioctahedral smectites. <i>Clay Minerals</i> , 2002 , 37, 607-616	1.3	143
143	Hydrothermal formation of Clay-Carbonate alteration assemblages in the Nili Fossae region of Mars. <i>Earth and Planetary Science Letters</i> , 2010 , 297, 174-182	5.3	134
142	Evidence for the origin of layered deposits in Candor Chasma, Mars, from mineral composition and hydrologic modeling. <i>Journal of Geophysical Research</i> , 2009 , 114,		131
141	Mineralogy of Juventae Chasma: Sulfates in the light-toned mounds, mafic minerals in the bedrock, and hydrated silica and hydroxylated ferric sulfate on the plateau. <i>Journal of Geophysical Research</i> , 2009 , 114,		119

140	Columbus crater and other possible groundwater-fed paleolakes of Terra Sirenum, Mars. <i>Journal of Geophysical Research</i> , 2011 , 116,		116
139	Evidence for Hesperian impact-induced hydrothermalism on Mars. <i>Icarus</i> , 2010 , 208, 667-683	3.8	109
138	The influence of octahedral and tetrahedral cation substitution on the structure of smectites and serpentines as observed through infrared spectroscopy. <i>Clay Minerals</i> , 2002 , 37, 617-628	1.3	103
137	Hydrated mineral stratigraphy of Ius Chasma, Valles Marineris. <i>Icarus</i> , 2010 , 206, 253-268	3.8	100
136	Identification of the Ca-sulfate bassanite in Mawrth Vallis, Mars. <i>Icarus</i> , 2010 , 209, 416-421	3.8	95
135	Characterization of phyllosilicates observed in the central Mawrth Vallis region, Mars, their potential formational processes, and implications for past climate. <i>Journal of Geophysical Research</i> , 2009 , 114,		89
134	Roter Kamm impact crater, Namibia: Geochemistry of basement rocks and breccias. <i>Geochimica Et Cosmochimica Acta</i> , 1994 , 58, 2689-2710	5.5	88
133	Orbital evidence for more widespread carbonate-bearing rocks on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2016 , 121, 652-677	4.1	84
132	What Lurks in the Martian Rocks and Soil? Investigations of Sulfates, Phosphates, and Perchlorates. Spectral properties of Ca-sulfates: Gypsum, bassanite, and anhydrite. <i>American Mineralogist</i> , 2014 , 99, 2105-2115	2.9	84
131	Mineralogy and stratigraphy of phyllosilicate-bearing and dark mantling units in the greater Mawrth Vallis/west Arabia Terra area: Constraints on geological origin. <i>Journal of Geophysical Research</i> , 2010 , 115,		83
130	Spatial Variations in the Spectral Properties of Bright Regions on Mars. <i>Icarus</i> , 1993 , 105, 454-468	3.8	83
129	What the ancient phyllosilicates at Mawrth Vallis can tell us about possible habitability on early Mars. <i>Planetary and Space Science</i> , 2013 , 86, 130-149	2	79
128	The infrared spectrum of synthetic akaganite, FeOOH. <i>American Mineralogist</i> , 2000 , 85, 716-721	2.9	77
127	Surface clay formation during short-term warmer and wetter conditions on a largely cold ancient Mars. <i>Nature Astronomy</i> , 2018 , 2, 260-213	12.1	73
126	Reflectance and Mossbauer spectroscopy of ferrihydrite-montmorillonite assemblages as Mars soil analog materials. <i>Geochimica Et Cosmochimica Acta</i> , 1993 , 57, 4583-95	5.5	73
125	Mars Reconnaissance Orbiter observations of light-toned layered deposits and associated fluvial landforms on the plateaus adjacent to Valles Marineris. <i>Icarus</i> , 2010 , 205, 73-102	3.8	65
124	Morphology, chemistry, and spectral properties of Hawaiian rock coatings and implications for Mars. <i>Journal of Geophysical Research</i> , 2007 , 112,		65
123	Noachian and more recent phyllosilicates in impact craters on Mars. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 12095-100	11.5	64

122	Testing evidence of recent hydration state change in sulfates on Mars. <i>Journal of Geophysical Research</i> , 2009 , 114,		64
121	Constraints on the crystal-chemistry of Fe/Mg-rich smectitic clays on Mars and links to global alteration trends. <i>Earth and Planetary Science Letters</i> , 2015 , 427, 215-225	5.3	63
120	Stratigraphy of hydrated sulfates in the sedimentary deposits of Aram Chaos, Mars. <i>Journal of Geophysical Research</i> , 2010 , 115,		63
119	Acid-fog deposition at Kilauea volcano: A possible mechanism for the formation of siliceous-sulfate rock coatings on Mars. <i>Geology</i> , 2006 , 34, 921	5	61
118	Low-temperature and low atmospheric pressure infrared reflectance spectroscopy of Mars soil analog materials. <i>Journal of Geophysical Research</i> , 1995 , 100, 5369		60
117	Spectral and stratigraphic mapping of hydrated sulfate and phyllosilicate-bearing deposits in northern Sinus Meridiani, Mars. <i>Journal of Geophysical Research</i> , 2010 , 115,		59
116	Spectral identification of hydrated sulfates on Mars and comparison with acidic environments on Earth. <i>International Journal of Astrobiology</i> , 2004 , 3, 275-285	1.4	59
115	Spectroscopic evidence for hydrous iron sulfate in the Martian soil. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	59
114	Mineralogy of the Paso Robles soils on Mars. <i>American Mineralogist</i> , 2008 , 93, 728-739	2.9	58
113	Reflectance spectroscopy of ferric sulfate-bearing montmorillonites as Mars soil analog materials. <i>Icarus</i> , 1995 , 117, 101-19	3.8	58
112	Mineral abundances at the final four curiosity study sites and implications for their formation. <i>Icarus</i> , 2014 , 231, 65-76	3.8	55
111	Characterization of minerals and biogeochemical markers on Mars: A Raman and IR spectroscopic study of montmorillonite. <i>Journal of Raman Spectroscopy</i> , 2004 , 35, 480-486	2.3	55
110	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, n/a-n/a		54
109	Diagenetic haematite and sulfate assemblages in Valles Marineris. <i>Icarus</i> , 2010 , 207, 659-674	3.8	54
108	Diverse mineralogies in two troughs of Noctis Labyrinthus, Mars. <i>Geology</i> , 2011 , 39, 899-902	5	53
107	A model for formation of dust, soil, and rock coatings on Mars: Physical and chemical processes on the Martian surface. <i>Journal of Geophysical Research</i> , 2002 , 107, 7-1-7-17		53
106	Spectral and Hydration Properties of Allophane and Imogolite. <i>Clays and Clay Minerals</i> , 2013 , 61, 57-74	2.1	51
105	Mineralogy and morphology of geologic units at Libya Montes, Mars: Ancient aqueously derived outcrops, mafic flows, fluvial features, and impacts. <i>Journal of Geophysical Research E: Planets</i> , 2013 , 118, 487-513	4.1	47

104	Mössbauer spectroscopy of phyllosilicates: effects of fitting models on recoil-free fractions and redox ratios. <i>Clay Minerals</i> , 2008 , 43, 3-33	1.3	46
103	Detection of soluble and fixed NH ₄ ⁺ in clay minerals by DTA and IR reflectance spectroscopy: a potential tool for planetary surface exploration. <i>Planetary and Space Science</i> , 2002 , 50, 11-19	2	46
102	The potential science and engineering value of samples delivered to Earth by Mars sample return. <i>Meteoritics and Planetary Science</i> , 2019 , 54, S3-S152	2.8	45
101	Spectroscopic characteristics of synthetic olivine: An integrated multi-wavelength and multi-technique approach. <i>American Mineralogist</i> , 2009 , 94, 883-898	2.9	45
100	Multiple techniques for mineral identification on Mars: <i>Icarus</i> , 2004 , 169, 311-323	3.8	45
99	Spectral reflectance properties of ureilites. <i>Meteoritics and Planetary Science</i> , 2010 , 45, 1668-1694	2.8	43
98	Reflectance Spectroscopy of Beidellites and Their Importance for Mars. <i>Clays and Clay Minerals</i> , 2011 , 59, 378-399	2.1	42
97	Characterization of alteration products in tephra from Haleakala, Maui: A visible-infrared spectroscopy, Mössbauer spectroscopy, XRD, EMPA and TEM study. <i>Clays and Clay Minerals</i> , 2007 , 55, 1-17	2.1	41
96	Potential desiccation cracks on Mars: A synthesis from modeling, analogue-field studies, and global observations. <i>Icarus</i> , 2014 , 241, 248-268	3.8	40
95	The Mawrth Vallis region of Mars: A potential landing site for the Mars Science Laboratory (MSL) mission. <i>Astrobiology</i> , 2010 , 10, 687-703	3.7	40
94	Spectroscopic analysis of Martian meteorite Allan Hills 84001 powder and applications for spectral identification of minerals and other soil components on Mars. <i>Meteoritics and Planetary Science</i> , 1998 , 33, 699-707	2.8	39
93	Alteration processes in volcanic soils and identification of exobiologically important weathering products on Mars using remote sensing. <i>Journal of Geophysical Research</i> , 1998 , 103, 31457-76		39
92	Light-toned strata and inverted channels adjacent to Juventae and Ganges chasmata, Mars. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	38
91	Interpretation of Reflectance Spectra of Clay Mineral-Silica Mixtures: Implications for Martian Clay Mineralogy at Mawrth Vallis. <i>Clays and Clay Minerals</i> , 2011 , 59, 400-415	2.1	37
90	Martian dunite NWA 2737: Integrated spectroscopic analyses of brown olivine. <i>Journal of Geophysical Research</i> , 2008 , 113,		37
89	Mineralogical and geochemical analyses of Antarctic lake sediments: a study of reflectance and Mössbauer spectroscopy and C, N, and S isotopes with applications for remote sensing on Mars. <i>Geochimica Et Cosmochimica Acta</i> , 2001 , 65, 2875-2897	5.5	37
88	Evidence for a changing Martian climate from the mineralogy at Mawrth Vallis. <i>Earth and Planetary Science Letters</i> , 2016 , 448, 42-48	5.3	36
87	A spectroscopy and isotope study of sediments from the Antarctic Dry Valleys as analogues for potential paleolakes on Mars. <i>International Journal of Astrobiology</i> , 2003 , 2, 273-287	1.4	36

86	Orbital detection and implications of akaganite on Mars. <i>Icarus</i> , 2015 , 253, 296-310	3.8	35
85	Crystal-chemistry of interstratified Mg/Fe-clay minerals from seafloor hydrothermal sites. <i>Chemical Geology</i> , 2013 , 360-361, 142-158	4.2	34
84	Gypsum, opal, and fluvial channels within a trough of Noctis Labyrinthus, Mars: Implications for aqueous activity during the Late Hesperian to Amazonian. <i>Planetary and Space Science</i> , 2013 , 87, 130-145	2	33
83	Almahata Sitta (=asteroid 2008 TC3) and the search for the ureilite parent body. <i>Meteoritics and Planetary Science</i> , 2010 , 45, 1590-1617	2.8	33
82	Reflectance spectroscopy (0.35-8 μ m) of ammonium-bearing minerals and qualitative comparison to Ceres-like asteroids. <i>Icarus</i> , 2016 , 265, 218-237	3.8	30
81	Mössbauer parameters of iron in phosphate minerals: Implications for interpretation of martian data. <i>American Mineralogist</i> , 2014 , 99, 914-942	2.9	30
80	Midinfrared spectroscopy of synthetic olivines: Thermal emission, specular and diffuse reflectance, and attenuated total reflectance studies of forsterite to fayalite. <i>Journal of Geophysical Research</i> , 2011 , 116,		29
79	Decomposition of mineral absorption bands using nonlinear least squares curve fitting: Application to Martian meteorites and CRISM data. <i>Planetary and Space Science</i> , 2011 , 59, 423-442	2	29
78	Reflectance spectroscopy and geochemical analyses of Lake Hoare sediments, Antarctica: implications for remote sensing of the Earth and Mars. <i>Geochimica Et Cosmochimica Acta</i> , 1996 , 60, 765-85	5.5	27
77	Visible to near-infrared optical properties of pure synthetic olivine across the olivine solid solution. <i>American Mineralogist</i> , 2014 , 99, 467-478	2.9	25
76	Spectral and thermal properties of perchlorate salts and implications for Mars. <i>American Mineralogist</i> , 2014 , 99, 1580-1592	2.9	25
75	Coordinated spectral and XRD analyses of magnesite-nontronite-forsterite mixtures and implications for carbonates on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2013 , 118, 635-650	4.1	25
74	Carbonate rocks in the Mojave Desert as an analogue for Martian carbonates. <i>International Journal of Astrobiology</i> , 2011 , 10, 349-358	1.4	25
73	Mid-infrared emission spectroscopy and visible/near-infrared reflectance spectroscopy of Fe-sulfate minerals. <i>American Mineralogist</i> , 2015 , 100, 66-82	2.9	24
72	Possible liquid water origin for Atacama Desert mudflow and recent gully deposits on Mars. <i>Icarus</i> , 2010 , 206, 685-690	3.8	24
71	What Lurks in the Martian Rocks and Soil? Investigations of Sulfates, Phosphates, and Perchlorates. Akaganite and schwertmannite: Spectral properties and geochemical implications of their possible presence on Mars. <i>American Mineralogist</i> , 2015 , 100, 738-746	2.9	23
70	Recognition of minor constituents in reflectance spectra of Allan Hills 84001 chips and the importance for remote sensing on Mars. <i>Meteoritics and Planetary Science</i> , 1998 , 33, 693-698	2.8	23
69	Spectral unmixing for mineral identification in pancam images of soils in Gusev crater, Mars. <i>Icarus</i> , 2009 , 203, 421-436	3.8	20

68	Remote sensing and in situ mineralogic survey of the Chilean salars: An analog to Mars evaporate deposits?. <i>Icarus</i> , 2017 , 282, 152-173	3.8	19
67	End-to-End Simulation and Analytical Model of Remote-Sensing Systems: Application to CRISM. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010 ,	8.1	19
66	Mineralogy, morphology and stratigraphy of the light-toned interior layered deposits at Juventae Chasma. <i>Icarus</i> , 2015 , 251, 315-331	3.8	18
65	History of the clay-rich unit at Mawrth Vallis, Mars: High-resolution mapping of a candidate landing site. <i>Journal of Geophysical Research E: Planets</i> , 2015 , 120, 1820-1846	4.1	18
64	Nanophase iron oxides as a key ultraviolet sunscreen for ancient photosynthetic microbes. <i>International Journal of Astrobiology</i> , 2006 , 5, 1-12	1.4	18
63	Raman spectroscopy of sediments from the Antarctic Dry Valleys; an analogue study for exploration of potential paleolakes on Mars. <i>Journal of Raman Spectroscopy</i> , 2004 , 35, 458-462	2.3	18
62	Coordinated analyses of Antarctic sediments as Mars analog materials using reflectance spectroscopy and current flight-like instruments for CheMin, SAM and MOMA. <i>Icarus</i> , 2013 , 224, 309-325 ^{3.8}	3.8	17
61	Physical alteration of antigorite: a Mössbauer spectroscopy, reflectance spectroscopy and TEM study with applications to Mars. <i>Clay Minerals</i> , 2008 , 43, 55-67	1.3	17
60	What Lurks in the Martian Rocks and Soil? Investigations of Sulfates, Phosphates, and Perchlorates. Mössbauer parameters of iron in sulfate minerals. <i>American Mineralogist</i> , 2013 , 98, 1943-1965	2.9	16
59	Candidates source regions of martian meteorites as identified by OMEGA/MEx. <i>Icarus</i> , 2015 , 258, 366-383 ^{3.8}	3.8	16
58	Spectroscopy of Yamato 984028. <i>Polar Science</i> , 2011 , 4, 530-549	2.3	16
57	Bidirectional visible-NIR and biconical FT-IR reflectance spectra of Almahata Sitta meteorite samples. <i>Meteoritics and Planetary Science</i> , 2010 , 45, 1836-1845	2.8	16
56	Geochemical and mineralogical analyses of palagonitic tuffs and altered rinds of pillow basalts in Iceland and applications to Mars. <i>Geological Society Special Publication</i> , 2002 , 202, 371-392	1.7	15
55	Linkages between mineralogy, fluid chemistry, and microbial communities within hydrothermal chimneys from the Endeavour Segment, Juan de Fuca Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2016 , 17, 300-323	3.6	14
54	Mineralogical analyses of surface sediments in the Antarctic Dry Valleys: coordinated analyses of Raman spectra, reflectance spectra and elemental abundances. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014 , 372,	3	14
53	Fresh exposures of hydrous Fe-bearing amorphous silicates on Mars. <i>Geophysical Research Letters</i> , 2014 , 41, 8744-8751	4.9	14
52	Stratigraphy and formation of clays, sulfates, and hydrated silica within a depression in Coprates Catena, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2016 , 121, 805-835	4.1	14
51	The paleolacustrine evolution of Juventae Chasma and Maja Valles and its implications for the formation of interior layered deposits on Mars. <i>Icarus</i> , 2017 , 292, 125-143	3.8	13

50	Deposition of >3.7 Ga clay-rich strata of the Mawrth Vallis Group, Mars, in lacustrine, alluvial, and aeolian environments. <i>Bulletin of the Geological Society of America</i> , 2020 , 132, 17-30	3.9	13
49	Natural Fe-bearing oxides and sulfates from the Rio Tinto Mars analog site: Critical assessment of VNIR reflectance spectroscopy, laser Raman spectroscopy, and XRD as mineral identification tools. <i>American Mineralogist</i> , 2014 , 99, 1199-1205	2.9	13
48	Lambert albedo retrieval and analyses over Aram Chaos from OMEGA hyperspectral imaging data. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		13
47	A new hematite formation mechanism for Mars. <i>Meteoritics and Planetary Science</i> , 2005 , 40, 55-69	2.8	13
46	Spectroscopic and geochemical analyses of ferrihydrite from springs in Iceland and applications to Mars. <i>Geological Society Special Publication</i> , 2002 , 202, 357-370	1.7	13
45	Octahedral chemistry of 2:1 clay minerals and hydroxyl band position in the near-infrared: Application to Mars. <i>American Mineralogist</i> , 2016 , 101, 554-563	2.9	13
44	Multiple mineral horizons in layered outcrops at Mawrth Vallis, Mars, signify changing geochemical environments on early Mars. <i>Icarus</i> , 2020 , 341, 113634-113634	3.8	12
43	Variability of rock texture and morphology correlated with the clay-bearing units at Mawrth Vallis, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2013 , 118, 1245-1256	4.1	12
42	Search for life on Mars in surface samples: Lessons from the 1999 Marsokhod rover field experiment. <i>Journal of Geophysical Research</i> , 2001 , 106, 7713-7720		12
41	Knob fields in the Terra Cimmeria/Terra Sirenum region of Mars: Stratigraphy, mineralogy and morphology. <i>Icarus</i> , 2013 , 225, 200-215	3.8	11
40	Geology of central Libya Montes, Mars: Aqueous alteration history from mineralogical and morphological mapping. <i>Icarus</i> , 2018 , 314, 12-34	3.8	10
39	Mawrth Vallis, Mars: A Fascinating Place for Future Exploration. <i>Astrobiology</i> , 2020 , 20, 199-234	3.7	9
38	Martian subsurface cryosalt expansion and collapse as trigger for landslides. <i>Science Advances</i> , 2021 , 7,	14.3	9
37	Laboratory reflectance spectra of clay minerals mixed with Mars analog materials: Toward enabling quantitative clay abundances from Mars spectra. <i>Icarus</i> , 2015 , 258, 454-466	3.8	8
36	Sedimentary differentiation of aeolian grains at the White Sands National Monument, New Mexico, USA. <i>Aeolian Research</i> , 2017 , 26, 117-136	3.9	8
35	Distinguishing palagonitized from pedogenically-altered basaltic Hawaiian tephra: mineralogical and geochemical criteria. <i>Geological Society Special Publication</i> , 2002 , 202, 393-405	1.7	7
34	Color analysis and detection of Fe minerals in multi-mineral mixtures from acid-alteration environments. <i>Applied Clay Science</i> , 2020 , 193, 105677	5.2	7
33	Remote Detection of Phyllosilicates on Mars and Implications for Climate and Habitability 2018 , 37-75		6

32	Mid-infrared (Thermal) Emission and Reflectance Spectroscopy 2019 , 42-67		6
31	Constraining the preservation of organic compounds in Mars analog nontronites after exposure to acid and alkaline fluids. <i>Scientific Reports</i> , 2020 , 10, 15097	4.9	6
30	Formation of clays, ferrihydrite, and possible salts in Hydræ Chasma, Mars. <i>Icarus</i> , 2019 , 319, 392-406	3.8	6
29	The Italian Solfatara as an analog for Mars fumarolic alteration. <i>American Mineralogist</i> , 2019 , 104, 1565-1577	4.7	5
28	Remote Detection of Clay Minerals. <i>Developments in Clay Science</i> , 2017 , 8, 482-514		5
27	Diverse mineral assemblages of acidic alteration in the Rio Tinto area (southwest Spain): Implications for Mars. <i>American Mineralogist</i> , 2018 , 103, 1877-1890	2.9	5
26	Abundance and composition of kaolinite on Mars: Information from NIR spectra of rocks from acid-alteration environments, Riotinto, SE Spain. <i>Icarus</i> , 2019 , 330, 30-41	3.8	4
25	Visible, near-infrared, and mid-infrared spectral characterization of Hawaiian fumarolic alteration near Kilauea's December 1974 flow: Implications for spectral discrimination of alteration environments on Mars. <i>American Mineralogist</i> , 2018 , 103, 11-25	2.9	4
24	Visible and Near-Infrared Reflectance Spectroscopy 2019 , 68-101		4
23	Biogeological Raman spectroscopic studies of Antarctic lacustrine sediments. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005 , 61, 2413-7	4.4	4
22	Long lasting habitable periods in Gale crater constrained by glauconitic clays. <i>Nature Astronomy</i> , 2021 , 5, 936-942	12.1	4
21	Visible to Short-Wave Infrared Spectral Analyses of Mars from Orbit Using CRISM and OMEGA 2019 , 453-483		4
20	Deconvolution of VNIR spectra using modified Gaussian modeling (MGM) with automatic parameter initialization (API) applied to CRISM 2009 ,		3
19	Elemental Analyses of Mars from Rovers Using the Alpha-Particle X-Ray Spectrometer 2019 , 555-572		3
18	Clay sediments derived from fluvial activity in and around Ladon basin, Mars. <i>Icarus</i> , 2022 , 384, 115090	3.8	2
17	Linear spectral unmixing of near-infrared hyperspectral data from Juventae Chasma, Mars 2009 ,		1
16	Spectral unmixing with nonnegative matrix factorization 2006 ,		1
15	Surface Morphologies in a Mars-Analog Ca-Sulfate Salar, High Andes, Northern Chile. <i>Frontiers in Astronomy and Space Sciences</i> , 2022 , 8,	3.8	1

14	Assessment of Sulfate Sources under Cold Conditions as a Geochemical Proxy for the Origin of Sulfates in the Circumpolar Dunes on Mars. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 507	2.4	1
13	Thermal Infrared Spectral Analyses of Mars from Orbit Using the Thermal Emission Spectrometer and Thermal Emission Imaging System 2019 , 484-498		1
12	Compositional and Mineralogic Analyses of Mars Using Multispectral Imaging on the Mars Exploration Rover, Phoenix, and Mars Science Laboratory Missions 2019 , 513-537		1
11	Mössbauer Spectroscopy at Gusev Crater and Meridiani Planum 2019 , 538-554		1
10	Spectral Properties of Anhydrous Carbonates and Nitrates. <i>Earth and Space Science</i> , 2021 , 8, e2021EA001844	3.44	1
9	Mars-rover cameras evaluation of laboratory spectra of Fe-bearing Mars analog samples. <i>Icarus</i> , 2022 , 371, 114704	3.8	1
8	Electronic Spectra of Minerals in the Visible and Near-Infrared Regions 2019 , 3-20		0
7	Visible and Near-Infrared Reflectance Spectroscopy 2019 , 261-273		0
6	Biogenic catalysis of soil formation on Mars?. <i>Origins of Life and Evolution of Biospheres</i> , 1998 , 28, 449-591.5		0
5	Targeting mixtures of jarosite and clay minerals for Mars exploration. <i>American Mineralogist</i> , 2021 , 106, 1237-1254	2.9	0
4	Memorial of Enver Murad 1941-2019. <i>American Mineralogist</i> , 2020 , 105, 146-147	2.9	
3	Geochemical Interpretations Using Multiple Remote Datasets 2019 , 337-348		
2	Elemental Analyses of Mars from Rovers with Laser-Induced Breakdown Spectroscopy by ChemCam and SuperCam 2019 , 573-587		
1	Mars as a time machine to Precambrian Earth. <i>Journal of the Geological Society</i> , jgs2022-047	2.7	