

# Janice Bishop

## List of Publications by Year in Descending Order

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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	Surface Morphologies in a Mars-Analog Ca-Sulfate Salar, High Andes, Northern Chile. <i>Frontiers in Astronomy and Space Sciences</i> , <b>2022</b> , 8,	3.8	1
156	Mars-rover cameras evaluation of laboratory spectra of Fe-bearing Mars analog samples. <i>Icarus</i> , <b>2022</b> , 371, 114704	3.8	1
155	Clay sediments derived from fluvial activity in and around Ladon basin, Mars. <i>Icarus</i> , <b>2022</b> , 384, 115090	3.8	2
154	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> , <b>2021</b> , 11, 507	2.4	1
153	Long lasting habitable periods in Gale crater constrained by glauconitic clays. <i>Nature Astronomy</i> , <b>2021</b> , 5, 936-942	12.1	4
152	Martian subsurface cryosalt expansion and collapse as trigger for landslides. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	9
151	Targeting mixtures of jarosite and clay minerals for Mars exploration. <i>American Mineralogist</i> , <b>2021</b> , 106, 1237-1254	2.9	0
150	Spectral Properties of Anhydrous Carbonates and Nitrates. <i>Earth and Space Science</i> , <b>2021</b> , 8, e2021EA001844	3.8	1
149	Memorial of Enver Murad 1941-2019. <i>American Mineralogist</i> , <b>2020</b> , 105, 146-147	2.9	
148	Multiple mineral horizons in layered outcrops at Mawrth Vallis, Mars, signify changing geochemical environments on early Mars. <i>Icarus</i> , <b>2020</b> , 341, 113634-113634	3.8	12
147	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> , <b>2020</b> , 132, 17-30	3.9	13
146	Color analysis and detection of Fe minerals in multi-mineral mixtures from acid-alteration environments. <i>Applied Clay Science</i> , <b>2020</b> , 193, 105677	5.2	7
145	Mawrth Vallis, Mars: A Fascinating Place for Future Exploration. <i>Astrobiology</i> , <b>2020</b> , 20, 199-234	3.7	9
144	Constraining the preservation of organic compounds in Mars analog nontronites after exposure to acid and alkaline fluids. <i>Scientific Reports</i> , <b>2020</b> , 10, 15097	4.9	6
143	Abundance and composition of kaolinite on Mars: Information from NIR spectra of rocks from acid-alteration environments, Riotinto, SE Spain. <i>Icarus</i> , <b>2019</b> , 330, 30-41	3.8	4
142	The potential science and engineering value of samples delivered to Earth by Mars sample return. <i>Meteoritics and Planetary Science</i> , <b>2019</b> , 54, S3-S152	2.8	45
141	Electronic Spectra of Minerals in the Visible and Near-Infrared Regions <b>2019</b> , 3-20		0

140	Mid-infrared (Thermal) Emission and Reflectance Spectroscopy <b>2019</b> , 42-67		6
139	Visible and Near-Infrared Reflectance Spectroscopy <b>2019</b> , 68-101		4
138	Visible and Near-Infrared Reflectance Spectroscopy <b>2019</b> , 261-273		0
137	The Italian Solfatara as an analog for Mars fumarolic alteration. <i>American Mineralogist</i> , <b>2019</b> , 104, 1565-1577		5
136	Geochemical Interpretations Using Multiple Remote Datasets <b>2019</b> , 337-348		
135	Visible to Short-Wave Infrared Spectral Analyses of Mars from Orbit Using CRISM and OMEGA <b>2019</b> , 453-483		4
134	Thermal Infrared Spectral Analyses of Mars from Orbit Using the Thermal Emission Spectrometer and Thermal Emission Imaging System <b>2019</b> , 484-498		1
133	Compositional and Mineralogic Analyses of Mars Using Multispectral Imaging on the Mars Exploration Rover, Phoenix, and Mars Science Laboratory Missions <b>2019</b> , 513-537		1
132	Mössbauer Spectroscopy at Gusev Crater and Meridiani Planum <b>2019</b> , 538-554		1
131	Elemental Analyses of Mars from Rovers Using the Alpha-Particle X-Ray Spectrometer <b>2019</b> , 555-572		3
130	Elemental Analyses of Mars from Rovers with Laser-Induced Breakdown Spectroscopy by ChemCam and SuperCam <b>2019</b> , 573-587		
129	Formation of clays, ferrihydrite, and possible salts in Hydræ Chasma, Mars. <i>Icarus</i> , <b>2019</b> , 319, 392-406	3.8	6
128	Surface clay formation during short-term warmer and wetter conditions on a largely cold ancient Mars. <i>Nature Astronomy</i> , <b>2018</b> , 2, 260-213	12.1	73
127	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> , <b>2018</b> , 103, 11-25	2.9	4
126	Remote Detection of Phyllosilicates on Mars and Implications for Climate and Habitability <b>2018</b> , 37-75		6
125	Diverse mineral assemblages of acidic alteration in the Rio Tinto area (southwest Spain): Implications for Mars. <i>American Mineralogist</i> , <b>2018</b> , 103, 1877-1890	2.9	5
124	Geology of central Libya Montes, Mars: Aqueous alteration history from mineralogical and morphological mapping. <i>Icarus</i> , <b>2018</b> , 314, 12-34	3.8	10
123	The paleolacustrine evolution of Juventae Chasma and Maja Valles and its implications for the formation of interior layered deposits on Mars. <i>Icarus</i> , <b>2017</b> , 292, 125-143	3.8	13

122	Sedimentary differentiation of aeolian grains at the White Sands National Monument, New Mexico, USA. <i>Aeolian Research</i> , <b>2017</b> , 26, 117-136	3.9	8
121	Remote sensing and in situ mineralogic survey of the Chilean salars: An analog to Mars evaporate deposits?. <i>Icarus</i> , <b>2017</b> , 282, 152-173	3.8	19
120	Remote Detection of Clay Minerals. <i>Developments in Clay Science</i> , <b>2017</b> , 8, 482-514		5
119	Orbital evidence for more widespread carbonate-bearing rocks on Mars. <i>Journal of Geophysical Research E: Planets</i> , <b>2016</b> , 121, 652-677	4.1	84
118	Linkages between mineralogy, fluid chemistry, and microbial communities within hydrothermal chimneys from the Endeavour Segment, Juan de Fuca Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2016</b> , 17, 300-323	3.6	14
117	Evidence for a changing Martian climate from the mineralogy at Mawrth Vallis. <i>Earth and Planetary Science Letters</i> , <b>2016</b> , 448, 42-48	5.3	36
116	Reflectance spectroscopy (0.358 $\mu\text{m}$ ) of ammonium-bearing minerals and qualitative comparison to Ceres-like asteroids. <i>Icarus</i> , <b>2016</b> , 265, 218-237	3.8	30
115	Stratigraphy and formation of clays, sulfates, and hydrated silica within a depression in Coprates Catena, Mars. <i>Journal of Geophysical Research E: Planets</i> , <b>2016</b> , 121, 805-835	4.1	14
114	Octahedral chemistry of 2:1 clay minerals and hydroxyl band position in the near-infrared: Application to Mars. <i>American Mineralogist</i> , <b>2016</b> , 101, 554-563	2.9	13
113	Mid-infrared emission spectroscopy and visible/near-infrared reflectance spectroscopy of Fe-sulfate minerals. <i>American Mineralogist</i> , <b>2015</b> , 100, 66-82	2.9	24
112	Laboratory reflectance spectra of clay minerals mixed with Mars analog materials: Toward enabling quantitative clay abundances from Mars spectra. <i>Icarus</i> , <b>2015</b> , 258, 454-466	3.8	8
111	Orbital detection and implications of akaganite on Mars. <i>Icarus</i> , <b>2015</b> , 253, 296-310	3.8	35
110	Mineralogy, morphology and stratigraphy of the light-toned interior layered deposits at Juventae Chasma. <i>Icarus</i> , <b>2015</b> , 251, 315-331	3.8	18
109	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> , <b>2015</b> , 100, 738-746	2.9	23
108	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> , <b>2015</b> , 427, 215-225	5.3	63
107	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> , <b>2015</b> , 120, 1820-1846	4.1	18
106	Candidates source regions of martian meteorites as identified by OMEGA/MEx. <i>Icarus</i> , <b>2015</b> , 258, 366-383	3.8	16
105	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> , <b>2014</b> , 372,	3	14

104	Visible to near-infrared optical properties of pure synthetic olivine across the olivine solid solution. <i>American Mineralogist</i> , <b>2014</b> , 99, 467-478	2.9	25
103	Potential desiccation cracks on Mars: A synthesis from modeling, analogue-field studies, and global observations. <i>Icarus</i> , <b>2014</b> , 241, 248-268	3.8	40
102	Mössbauer parameters of iron in phosphate minerals: Implications for interpretation of martian data. <i>American Mineralogist</i> , <b>2014</b> , 99, 914-942	2.9	30
101	Mineral abundances at the final four curiosity study sites and implications for their formation. <i>Icarus</i> , <b>2014</b> , 231, 65-76	3.8	55
100	Fresh exposures of hydrous Fe-bearing amorphous silicates on Mars. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 8744-8751	4.9	14
99	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> , <b>2014</b> , 99, 1199-1205	2.9	13
98	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> , <b>2014</b> , 99, 2105-2115	2.9	84
97	Spectral and thermal properties of perchlorate salts and implications for Mars. <i>American Mineralogist</i> , <b>2014</b> , 99, 1580-1592	2.9	25
96	Crystal-chemistry of interstratified Mg/Fe-clay minerals from seafloor hydrothermal sites. <i>Chemical Geology</i> , <b>2013</b> , 360-361, 142-158	4.2	34
95	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> , <b>2013</b> , 87, 130-145 <sup>2</sup>		33
94	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> , <b>2013</b> , 98, 1943-1965	2.9	16
93	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> , <b>2013</b> , 224, 309-325 <sup>3.8</sup>		17
92	What the ancient phyllosilicates at Mawrth Vallis can tell us about possible habitability on early Mars. <i>Planetary and Space Science</i> , <b>2013</b> , 86, 130-149	2	79
91	Knob fields in the Terra Cimmeria/Terra Sirenum region of Mars: Stratigraphy, mineralogy and morphology. <i>Icarus</i> , <b>2013</b> , 225, 200-215	3.8	11
90	Spectral and Hydration Properties of Allophane and Imogolite. <i>Clays and Clay Minerals</i> , <b>2013</b> , 61, 57-74	2.1	51
89	Variability of rock texture and morphology correlated with the clay-bearing units at Mawrth Vallis, Mars. <i>Journal of Geophysical Research E: Planets</i> , <b>2013</b> , 118, 1245-1256	4.1	12
88	Coordinated spectral and XRD analyses of magnesite-nontronite-forsterite mixtures and implications for carbonates on Mars. <i>Journal of Geophysical Research E: Planets</i> , <b>2013</b> , 118, 635-650	4.1	25
87	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> , <b>2013</b> , 118, 487-513	4.1	47

86	Lambert albedo retrieval and analyses over Aram Chaos from OMEGA hyperspectral imaging data. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		13
85	Most Mars minerals in a nutshell: Various alteration phases formed in a single environment in Noctis Labyrinthus. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		54
84	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> , <b>2011</b> , 116,		29
83	Columbus crater and other possible groundwater-fed paleolakes of Terra Sirenum, Mars. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		116
82	Spectroscopy of Yamato 984028. <i>Polar Science</i> , <b>2011</b> , 4, 530-549	2.3	16
81	Reflectance Spectroscopy of Beidellites and Their Importance for Mars. <i>Clays and Clay Minerals</i> , <b>2011</b> , 59, 378-399	2.1	42
80	Diverse mineralogies in two troughs of Noctis Labyrinthus, Mars. <i>Geology</i> , <b>2011</b> , 39, 899-902	5	53
79	Carbonate rocks in the Mojave Desert as an analogue for Martian carbonates. <i>International Journal of Astrobiology</i> , <b>2011</b> , 10, 349-358	1.4	25
78	Interpretation of Reflectance Spectra of Clay Mineral-Silica Mixtures: Implications for Martian Clay Mineralogy at Mawrth Vallis. <i>Clays and Clay Minerals</i> , <b>2011</b> , 59, 400-415	2.1	37
77	Decomposition of mineral absorption bands using nonlinear least squares curve fitting: Application to Martian meteorites and CRISM data. <i>Planetary and Space Science</i> , <b>2011</b> , 59, 423-442	2	29
76	The Mawrth Vallis region of Mars: A potential landing site for the Mars Science Laboratory (MSL) mission. <i>Astrobiology</i> , <b>2010</b> , 10, 687-703	3.7	40
75	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> , <b>2010</b> , 107, 12095-100	11.5	64
74	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> , <b>2010</b> , 115,		83
73	Stratigraphy of hydrated sulfates in the sedimentary deposits of Aram Chaos, Mars. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		63
72	Spectral and stratigraphic mapping of hydrated sulfate and phyllosilicate-bearing deposits in northern Sinus Meridiani, Mars. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		59
71	Hydrothermal formation of Clay-Carbonate alteration assemblages in the Nili Fossae region of Mars. <i>Earth and Planetary Science Letters</i> , <b>2010</b> , 297, 174-182	5.3	134
70	Spectral reflectance properties of ureilites. <i>Meteoritics and Planetary Science</i> , <b>2010</b> , 45, 1668-1694	2.8	43
69	Bidirectional visible-NIR and biconical FT-IR reflectance spectra of Almahata Sitta meteorite samples. <i>Meteoritics and Planetary Science</i> , <b>2010</b> , 45, 1836-1845	2.8	16

68	Almahata Sitta (=asteroid 2008 TC3) and the search for the ureilite parent body. <i>Meteoritics and Planetary Science</i> , <b>2010</b> , 45, 1590-1617	2.8	33
67	Mars Reconnaissance Orbiter observations of light-toned layered deposits and associated fluvial landforms on the plateaus adjacent to Valles Marineris. <i>Icarus</i> , <b>2010</b> , 205, 73-102	3.8	65
66	Evidence for Hesperian impact-induced hydrothermalism on Mars. <i>Icarus</i> , <b>2010</b> , 208, 667-683	3.8	109
65	End-to-End Simulation and Analytical Model of Remote-Sensing Systems: Application to CRISM. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2010</b> ,	8.1	19
64	Hydrated mineral stratigraphy of Ius Chasma, Valles Marineris. <i>Icarus</i> , <b>2010</b> , 206, 253-268	3.8	100
63	Possible liquid water origin for Atacama Desert mudflow and recent gully deposits on Mars. <i>Icarus</i> , <b>2010</b> , 206, 685-690	3.8	24
62	Diagenetic haematite and sulfate assemblages in Valles Marineris. <i>Icarus</i> , <b>2010</b> , 207, 659-674	3.8	54
61	Identification of the Ca-sulfate bassanite in Mawrth Vallis, Mars. <i>Icarus</i> , <b>2010</b> , 209, 416-421	3.8	95
60	An improvement to the volcano-scan algorithm for atmospheric correction of CRISM and OMEGA spectral data. <i>Planetary and Space Science</i> , <b>2009</b> , 57, 809-815	2	147
59	The impact and recovery of asteroid 2008 TC(3). <i>Nature</i> , <b>2009</b> , 458, 485-8	50.4	262
58	Spectral unmixing for mineral identification in pancam images of soils in Gusev crater, Mars. <i>Icarus</i> , <b>2009</b> , 203, 421-436	3.8	20
57	Spectroscopic characteristics of synthetic olivine: An integrated multi-wavelength and multi-technique approach. <i>American Mineralogist</i> , <b>2009</b> , 94, 883-898	2.9	45
56	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> , <b>2009</b> , 114,		373
55	A synthesis of Martian aqueous mineralogy after 1 Mars year of observations from the Mars Reconnaissance Orbiter. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		354
54	Evidence for the origin of layered deposits in Candor Chasma, Mars, from mineral composition and hydrologic modeling. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		131
53	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> , <b>2009</b> , 114,		119
52	Deconvolution of VNIR spectra using modified Gaussian modeling (MGM) with automatic parameter initialization (API) applied to CRISM <b>2009</b> ,		3
51	Testing evidence of recent hydration state change in sulfates on Mars. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		64



50	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> , <b>2009</b> , 114,		89
49	Linear spectral unmixing of near-infrared hyperspectral data from Juventae Chasma, Mars <b>2009</b> ,		1
48	Hydrated silicate minerals on Mars observed by the Mars Reconnaissance Orbiter CRISM instrument. <i>Nature</i> , <b>2008</b> , 454, 305-9	50.4	547
47	Physical alteration of antigorite: a Mössbauer spectroscopy, reflectance spectroscopy and TEM study with applications to Mars. <i>Clay Minerals</i> , <b>2008</b> , 43, 55-67	1.3	17
46	Martian dunite NWA 2737: Integrated spectroscopic analyses of brown olivine. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		37
45	Light-toned strata and inverted channels adjacent to Juventae and Ganges chasmata, Mars. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	38
44	Reflectance and emission spectroscopy study of four groups of phyllosilicates: smectites, kaolinite-serpentines, chlorites and micas. <i>Clay Minerals</i> , <b>2008</b> , 43, 35-54	1.3	337
43	Opaline silica in young deposits on Mars. <i>Geology</i> , <b>2008</b> , 36, 847	5	259
42	Mineralogy of the Paso Robles soils on Mars. <i>American Mineralogist</i> , <b>2008</b> , 93, 728-739	2.9	58
41	Orbital identification of carbonate-bearing rocks on Mars. <i>Science</i> , <b>2008</b> , 322, 1828-32	33.3	470
40	Phyllosilicate diversity and past aqueous activity revealed at Mawrth Vallis, Mars. <i>Science</i> , <b>2008</b> , 321, 830-3	33.3	283
39	Mössbauer spectroscopy of phyllosilicates: effects of fitting models on recoil-free fractions and redox ratios. <i>Clay Minerals</i> , <b>2008</b> , 43, 3-33	1.3	46
38	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> , <b>2007</b> , 55, 1-17	2.1	41
37	Morphology, chemistry, and spectral properties of Hawaiian rock coatings and implications for Mars. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		65
36	Nanophase iron oxides as a key ultraviolet sunscreen for ancient photosynthetic microbes. <i>International Journal of Astrobiology</i> , <b>2006</b> , 5, 1-12	1.4	18
35	Spectral unmixing with nonnegative matrix factorization <b>2006</b> ,		1
34	Acid-fog deposition at Kilauea volcano: A possible mechanism for the formation of siliceous-sulfate rock coatings on Mars. <i>Geology</i> , <b>2006</b> , 34, 921	5	61
33	A new hematite formation mechanism for Mars. <i>Meteoritics and Planetary Science</i> , <b>2005</b> , 40, 55-69	2.8	13



32	The visible and infrared spectral properties of jarosite and alunite. <i>American Mineralogist</i> , <b>2005</b> , 90, 1100-1107	148
31	Biogeological Raman spectroscopic studies of Antarctic lacustrine sediments. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2005</b> , 61, 2413-7	4-4 4
30	Spectral identification of hydrated sulfates on Mars and comparison with acidic environments on Earth. <i>International Journal of Astrobiology</i> , <b>2004</b> , 3, 275-285	1.4 59
29	Multiple techniques for mineral identification on Mars. <i>Icarus</i> , <b>2004</b> , 169, 311-323	3.8 45
28	Characterization of minerals and biogeochemical markers on Mars: A Raman and IR spectroscopic study of montmorillonite. <i>Journal of Raman Spectroscopy</i> , <b>2004</b> , 35, 480-486	2.3 55
27	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> , <b>2004</b> , 35, 458-462	2.3 18
26	Spectroscopic evidence for hydrous iron sulfate in the Martian soil. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9 59
25	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> , <b>2003</b> , 2, 273-287	1.4 36
24	Detection of soluble and fixed NH <sub>4</sub> <sup>+</sup> in clay minerals by DTA and IR reflectance spectroscopy: a potential tool for planetary surface exploration. <i>Planetary and Space Science</i> , <b>2002</b> , 50, 11-19	2 46
23	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> , <b>2002</b> , 202, 371-392	1.7 15
22	Spectroscopic and geochemical analyses of ferrihydrite from springs in Iceland and applications to Mars. <i>Geological Society Special Publication</i> , <b>2002</b> , 202, 357-370	1.7 13
21	The influence of structural Fe, Al and Mg on the infrared OH bands in spectra of dioctahedral smectites. <i>Clay Minerals</i> , <b>2002</b> , 37, 607-616	1.3 143
20	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> , <b>2002</b> , 107, 7-1-7-17	53
19	The influence of octahedral and tetrahedral cation substitution on the structure of smectites and serpentines as observed through infrared spectroscopy. <i>Clay Minerals</i> , <b>2002</b> , 37, 617-628	1.3 103
18	Distinguishing palagonitized from pedogenically-altered basaltic Hawaiian tephra: mineralogical and geochemical criteria. <i>Geological Society Special Publication</i> , <b>2002</b> , 202, 393-405	1.7 7
17	Search for life on Mars in surface samples: Lessons from the 1999 Marsokhod rover field experiment. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 7713-7720	12
16	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> , <b>2001</b> , 65, 2875-2897	5.5 37
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