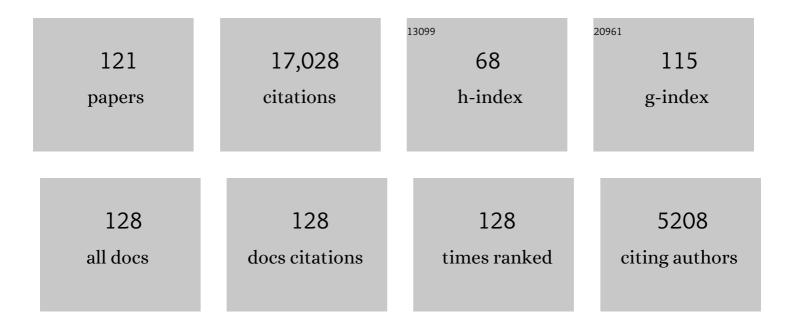
Ralf Gellert

List of Publications by Year in descending order

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PALE CELLEDT

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Jarosite and Hematite at Meridiani Planum from Opportunity's Mössbauer Spectrometer. Science, 2004, 306, 1740-1745. | 12.6 | 733 |
| 2 | A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1242777. | 12.6 | 687 |
| 3 | Mars Science Laboratory Mission and Science Investigation. Space Science Reviews, 2012, 170, 5-56. | 8.1 | 650 |
| 4 | Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1243480. | 12.6 | 508 |
| 5 | Provenance and diagenesis of the evaporite-bearing Burns formation, Meridiani Planum, Mars. Earth and Planetary Science Letters, 2005, 240, 95-121. | 4.4 | 506 |
| 6 | Deposition, exhumation, and paleoclimate of an ancient lake deposit, Gale crater, Mars. Science, 2015, 350, aac7575. | 12.6 | 471 |
| 7 | Detection of Silica-Rich Deposits on Mars. Science, 2008, 320, 1063-1067. | 12.6 | 399 |
| 8 | Chemistry of Rocks and Soils at Meridiani Planum from the Alpha Particle X-ray Spectrometer. Science, 2004, 306, 1746-1749. | 12.6 | 370 |
| 9 | Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. Science, 2013, 341, 1238937. | 12.6 | 367 |
| 10 | Identification of Carbonate-Rich Outcrops on Mars by the Spirit Rover. Science, 2010, 329, 421-424. | 12.6 | 358 |
| 11 | Chemistry and mineralogy of outcrops at Meridiani Planum. Earth and Planetary Science Letters, 2005, 240, 73-94. | 4.4 | 349 |
| 12 | An integrated view of the chemistry and mineralogy of martian soils. Nature, 2005, 436, 49-54. | 27.8 | 348 |
| 13 | Alpha Particle X-Ray Spectrometer (APXS): Results from Gusev crater and calibration report. Journal of Geophysical Research, 2006, 111, n/a-n/a. | 3.3 | 342 |
| 14 | X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. Science, 2013, 341, 1238932. | 12.6 | 327 |
| 15 | Martian Fluvial Conglomerates at Gale Crater. Science, 2013, 340, 1068-1072. | 12.6 | 326 |
| 16 | Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267. | 12.6 | 323 |
| 17 | M¶ssbauer mineralogy of rock, soil, and dust at Gusev crater, Mars: Spirit's journey through weakly altered olivine basalt on the plains and pervasively altered basalt in the Columbia Hills. Journal of Geophysical Research, 2006, 111, n/a-n/a. | 3.3 | 314 |
| 18 | Chemistry of Rocks and Soils in Gusev Crater from the Alpha Particle X-ray Spectrometer. Science, 2004, 305, 829-832. | 12.6 | 291 |

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| 19 | Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. Science, 2013, 341, 1239505. | 12.6 | 280 |
| 20 | Mineralogy at Gusev Crater from the Mossbauer Spectrometer on the Spirit Rover. Science, 2004, 305, 833-836. | 12.6 | 279 |
| 21 | Windâ€driven particle mobility on Mars: Insights from Mars Exploration Rover observations at "El Dorado―and surroundings at Gusev Crater. Journal of Geophysical Research, 2008, 113, . | 3.3 | 255 |
| 22 | Mineralogy of an ancient lacustrine mudstone succession from the Murray formation, Gale crater, Mars. Earth and Planetary Science Letters, 2017, 471, 172-185. | 4.4 | 247 |
| 23 | Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734. | 12.6 | 246 |
| 24 | Basaltic Rocks Analyzed by the Spirit Rover in Gusev Crater. Science, 2004, 305, 842-845. | 12.6 | 244 |
| 25 | Water alteration of rocks and soils on Mars at the Spirit rover site in Gusev crater. Nature, 2005, 436, 66-69. | 27.8 | 240 |
| 26 | Geochemical and mineralogical indicators for aqueous processes in the Columbia Hills of Gusev crater, Mars. Journal of Geophysical Research, 2006, 111, n/a-n/a. | 3.3 | 234 |
| 27 | 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 |
| 28 | Mössbauer mineralogy of rock, soil, and dust at Meridiani Planum, Mars: Opportunity's journey across sulfate-rich outcrop, basaltic sand and dust, and hematite lag deposits. Journal of Geophysical Research, 2006, 111, n/a-n/a. | 3.3 | 225 |
| 29 | In Situ Radiometric and Exposure Age Dating of the Martian Surface. Science, 2014, 343, 1247166. | 12.6 | 224 |
| 30 | Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. Science, 2013, 341, 1238670. | 12.6 | 215 |
| 31 | Athena MIMOS II Mössbauer spectrometer investigation. Journal of Geophysical Research, 2003, 108, . | 3.3 | 210 |
| 32 | Redox stratification of an ancient lake in Gale crater, Mars. Science, 2017, 356, . | 12.6 | 209 |
| 33 | The new Athena alpha particle X-ray spectrometer for the Mars Exploration Rovers. Journal of Geophysical Research, 2003, 108, . | 3.3 | 200 |
| 34 | Ancient Impact and Aqueous Processes at Endeavour Crater, Mars. Science, 2012, 336, 570-576. | 12.6 | 176 |
| 35 | Ancient Aqueous Environments at Endeavour Crater, Mars. Science, 2014, 343, 1248097. | 12.6 | 176 |
| 36 | Pyroclastic Activity at Home Plate in Gusev Crater, Mars. Science, 2007, 316, 738-742. | 12.6 | 174 |

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| 37 | 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. Journal of Geophysical Research E: Planets, 2017, 122, 2574-2609. | 3.6 | 168 |
| 38 | Geochemical properties of rocks and soils in Gusev Crater, Mars: Results of the Alpha Particle Xâ€Ray Spectrometer from Cumberland Ridge to Home Plate. Journal of Geophysical Research, 2008, 113, . | 3.3 | 162 |
| 39 | Iron mineralogy and aqueous alteration from Husband Hill through Home Plate at Gusev Crater, Mars: Results from the Mössbauer instrument on the Spirit Mars Exploration Rover. Journal of Geophysical Research, 2008, 113, . | 3.3 | 162 |
| 40 | Mineralogy, provenance, and diagenesis of a potassic basaltic sandstone on Mars: CheMin Xâ€ray diffraction of the Windjana sample (Kimberley area, Gale Crater). Journal of Geophysical Research E: Planets, 2016, 121, 75-106. | 3.6 | 159 |
| 41 | Silicic volcanism on Mars evidenced by tridymite in high-SiO ₂ sedimentary rock at Gale crater. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7071-7076. | 7.1 | 158 |
| 42 | Soils of Eagle Crater and Meridiani Planum at the Opportunity Rover Landing Site. Science, 2004, 306, 1723-1726. | 12.6 | 153 |
| 43 | Clay mineral diversity and abundance in sedimentary rocks of Gale crater, Mars. Science Advances, 2018, 4, eaar3330. | 10.3 | 150 |
| 44 | 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 |
| 45 | Alkaline volcanic rocks from the Columbia Hills, Gusev crater, Mars. Journal of Geophysical Research, 2006, 111, . | 3.3 | 148 |
| 46 | Multiple stages of aqueous alteration along fractures in mudstone and sandstone strata in Gale Crater, Mars. Earth and Planetary Science Letters, 2017, 471, 186-198. | 4.4 | 137 |
| 47 | Mineralogy and geochemistry of sedimentary rocks and eolian sediments in Gale crater, Mars: A review after six Earth years of exploration with Curiosity. Chemie Der Erde, 2020, 80, 125605. | 2.0 | 137 |
| 48 | The Petrochemistry of Jake_M: A Martian Mugearite. Science, 2013, 341, 1239463. | 12.6 | 134 |
| 49 | Hydrothermal processes at Gusev Crater: An evaluation of Paso Robles class soils. Journal of Geophysical Research, 2008, 113, . | 3.3 | 129 |
| 50 | 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 |
| 51 | Indication of drier periods on Mars from the chemistry and mineralogy of atmospheric dust. Nature, 2005, 436, 62-65. | 27.8 | 125 |
| 52 | Geochemical diversity in first rocks examined by the Curiosity Rover in Gale Crater: Evidence for and significance of an alkali and volatileâ€rich igneous source. Journal of Geophysical Research E: Planets, 2014, 119, 64-81. | 3.6 | 113 |
| 53 | Oxidation of manganese in an ancient aquifer, Kimberley formation, Gale crater, Mars. Geophysical Research Letters, 2016, 43, 7398-7407. | 4.0 | 110 |
| 54 | 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 |

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| 55 | Calibration of the Mars Science Laboratory Alpha Particle X-ray Spectrometer. Space Science Reviews, 2012, 170, 319-340. | 8.1 | 105 |
| 56 | 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 |
| 57 | Mineralogy of an active eolian sediment from the Namib dune, Gale crater, Mars. Journal of Geophysical Research E: Planets, 2017, 122, 2344-2361. | 3.6 | 98 |
| 58 | Mineralogy of volcanic rocks in Gusev Crater, Mars: Reconciling Mössbauer, Alpha Particle Xâ€Ray Spectrometer, and Miniature Thermal Emission Spectrometer spectra. Journal of Geophysical Research, 2008, 113, . | 3.3 | 96 |
| 59 | A global Mars dust composition refined by the Alphaâ€Particle Xâ€ray Spectrometer in Gale Crater. Geophysical Research Letters, 2016, 43, 67-75. | 4.0 | 95 |
| 60 | 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. | 3.6 | 95 |
| 61 | Crystal chemistry of martian minerals from Bradbury Landing through Naukluft Plateau, Gale crater, Mars. American Mineralogist, 2018, 103, 857-871. | 1.9 | 94 |
| 62 | In Situ Compositional Measurements of Rocks and Soils with the Alpha Particle X-ray Spectrometer on NASA's Mars Rovers. Elements, 2015, 11, 39-44. | 0.5 | 91 |
| 63 | Diagenetic silica enrichment and lateâ€stage groundwater activity in Gale crater, Mars. Geophysical Research Letters, 2017, 44, 4716-4724. | 4.0 | 87 |
| 64 | Mineralogy of Vera Rubin Ridge From the Mars Science Laboratory CheMin Instrument. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006306. | 3.6 | 86 |
| 65 | Evidence for montmorillonite or its compositional equivalent in Columbia Hills, Mars. Journal of Geophysical Research, 2007, 112, . | 3.3 | 81 |
| 66 | High manganese concentrations in rocks at Gale crater, Mars. Geophysical Research Letters, 2014, 41, 5755-5763. | 4.0 | 81 |
| 67 | Meteorites on Mars observed with the Mars Exploration Rovers. Journal of Geophysical Research, 2008, 113, . | 3.3 | 75 |
| 68 | Hydrothermal origin of halogens at Home Plate, Gusev Crater. Journal of Geophysical Research, 2008, 113, . | 3.3 | 71 |
| 69 | Desiccation cracks provide evidence of lake drying on Mars, Sutton Island member, Murray formation, Gale Crater. Geology, 2018, 46, 515-518. | 4.4 | 71 |
| 70 | Nickel on Mars: Constraints on meteoritic material at the surface. Journal of Geophysical Research, 2006, 111, n/a-n/a. | 3.3 | 65 |
| 71 | Sorting out compositional trends in sedimentary rocks of the Bradbury group (Aeolis Palus), Gale crater, Mars. Journal of Geophysical Research E: Planets, 2017, 122, 295-328. | 3.6 | 64 |
| 72 | APXSâ€derived chemistry of the Bagnold dune sands: Comparisons with Gale Crater soils and the global Martian average. Journal of Geophysical Research E: Planets, 2017, 122, 2623-2643. | 3.6 | 62 |

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| 73 | Veneers, rinds, and fracture fills: Relatively late alteration of sedimentary rocks at Meridiani Planum, Mars. Journal of Geophysical Research, 2008, 113, . | 3.3 | 57 |
| 74 | High concentrations of manganese and sulfur in deposits on Murray Ridge, Endeavour Crater, Mars. American Mineralogist, 2016, 101, 1389-1405. | 1.9 | 55 |
| 75 | Composition of conglomerates analyzed by the Curiosity rover: Implications for Gale Crater crust and sediment sources. Journal of Geophysical Research E: Planets, 2016, 121, 353-387. | 3.6 | 53 |
| 76 | Sand Mineralogy Within the Bagnold Dunes, Gale Crater, as Observed In Situ and From Orbit. Geophysical Research Letters, 2018, 45, 9488-9497. | 4.0 | 52 |
| 77 | Mars Science Laboratory Observations of Chloride Salts in Gale Crater, Mars. Geophysical Research Letters, 2019, 46, 10754-10763. | 4.0 | 52 |
| 78 | Brine-driven destruction of clay minerals in Gale crater, Mars. Science, 2021, 373, 198-204. | 12.6 | 52 |
| 79 | Potassiumâ€rich sandstones within the Gale impact crater, Mars: The APXS perspective. Journal of Geophysical Research E: Planets, 2016, 121, 1981-2003. | 3.6 | 51 |
| 80 | Classification scheme for sedimentary and igneous rocks in Gale crater, Mars. Icarus, 2017, 284, 1-17. | 2.5 | 46 |
| 81 | Evidence for Multiple Diagenetic Episodes in Ancient Fluvialâ€Lacustrine Sedimentary Rocks in Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006295. | 3.6 | 45 |
| 82 | Deconvolution of distinct lithology chemistry through oversampling with the Mars Science Laboratory Alpha Particle Xâ€Ray Spectrometer. X-Ray Spectrometry, 2016, 45, 155-161. | 1.4 | 44 |
| 83 | Zinc and germanium in the sedimentary rocks of Gale Crater on Mars indicate hydrothermal enrichment followed by diagenetic fractionation. Journal of Geophysical Research E: Planets, 2017, 122, 1747-1772. | 3.6 | 42 |
| 84 | Quantitative in situ determination of hydration of bright highâ€sulfate Martian soils. Journal of Geophysical Research, 2008, 113, . | 3.3 | 40 |
| 85 | 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. | 3.6 | 37 |
| 86 | Mars Exploration Rovers: chemical composition by the APXS. , 2008, , 58-102. | | 34 |
| 87 | The Rosetta Alpha Particle X-Ray Spectrometer (APXS). Space Science Reviews, 2007, 128, 383-396. | 8.1 | 33 |
| 88 | Elemental Composition and Chemical Evolution of Geologic Materials in Gale Crater, Mars: APXS Results From Bradbury Landing to the Vera Rubin Ridge. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006536. | 3.6 | 33 |
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| 90 | Constraints on the Mineralogy and Geochemistry of Vera Rubin Ridge, Gale Crater, Mars, From Mars Science Laboratory Sample Analysis at Mars Evolved Gas Analyses. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006309. | 3.6 | 32 |

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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 | APXSâ€Derived Compositional Characteristics of Vera Rubin Ridge and Murray Formation, Gale Crater, Mars: Geochemical Implications for the Origin of the Ridge. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006319. | 3.6 | 31 |
| 93 | Mars Reconnaissance Orbiter and Opportunity observations of the Burns formation: Crater hopping at Meridiani Planum. Journal of Geophysical Research E: Planets, 2015, 120, 429-451. | 3.6 | 30 |
| 94 | Modeling and mitigation of sample relief effects applied to chemistry measurements by the Mars Science Laboratory Alpha Particle X-ray Spectrometer. X-Ray Spectrometry, 2017, 46, 229-236. | 1.4 | 28 |
| 95 | Diverse Lithologies and Alteration Events on the Rim of Noachianâ€Aged Endeavour Crater, Meridiani Planum, Mars: In Situ Compositional Evidence. Journal of Geophysical Research E: Planets, 2018, 123, 1255-1306. | 3.6 | 28 |
| 96 | The Mars Science Laboratory APXS calibration target: Comparison of Martian measurements with the terrestrial calibration. Nuclear Instruments & Methods in Physics Research B, 2014, 323, 49-58. | 1.4 | 26 |
| 97 | Overview of Mars surface geochemical diversity through Alpha Particle Xâ€Ray Spectrometer data multidimensional analysis: First attempt at modeling rock alteration. Journal of Geophysical Research, 2008, 113, . | 3.3 | 25 |
| 98 | 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 |
| 99 | Chemical Diversity of Sands Within the Linear and Barchan Dunes of the Bagnold Dunes, Gale Crater, as Revealed by APXS Onboard Curiosity. Geophysical Research Letters, 2018, 45, 9460-9470. | 4.0 | 21 |
| 100 | Formation of Tridymite and Evidence for a Hydrothermal History at Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006569. | 3.6 | 21 |
| 101 | Depth selective Mössbauer spectroscopy: Analysis and simulation of 6.4 keV and 14.4 keV spectra obtained from rocks at Gusev Crater, Mars, and layered laboratory samples. Journal of Geophysical Research, 2008, 113, . | 3.3 | 20 |
| 102 | Properties and distribution of paired candidate stony meteorites at Meridiani Planum, Mars. Journal of Geophysical Research, 2010, 115, . | 3.3 | 19 |
| 103 | Esperance: Multiple episodes of aqueous alteration involving fracture fills and coatings at Matijevic Hill, Mars. American Mineralogist, 2016, 101, 1515-1526. | 1.9 | 19 |
| 104 | Statistical Analysis of APXSâ€Derived Chemistry of the Clayâ€Bearing Glen Torridon Region and Mount Sharp Group, Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2022, 127, . | 3.6 | 15 |
| 105 | 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 |
| 106 | MSL-APXS titanium observation tray measurements: Laboratory experiments and results for the Rocknest fines at the <i>Curiosity</i> field site in Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2014, 119, 1046-1060. | 3.6 | 13 |
| 107 | Mars Science Laboratory Alpha Particle X-ray spectrometer trace elements: Situational sensitivity to Co, Ni, Cu, Zn, Ga, Ge, and Br. Acta Astronautica, 2019, 165, 32-42. | 3.2 | 13 |
| 108 | Retrieval of Compositional Endâ€Members From Mars Exploration Rover Opportunity Observations in a Soilâ€Filled Fracture in Marathon Valley, Endeavour Crater Rim. Journal of Geophysical Research E: Planets, 2018, 123, 278-290. | 3.6 | 11 |

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| 109 | Empirical simulations for further characterization of the Mars Science Laboratory Alpha Particle X-ray Spectrometer: An introduction to the ACES program. Nuclear Instruments & Methods in Physics Research B, 2019, 441, 79-87. | 1.4 | 11 |
| 110 | Particle Induced X-ray Emission spectrometry (PIXE) of Hawaiian volcanics: An analogue study to evaluate the APXS field analysis of geologic materials on Mars. Icarus, 2020, 345, 113708. | 2.5 | 9 |
| 111 | FIDO science payload simulating the Athena Payload. Journal of Geophysical Research, 2002, 107, FIDO 5-1-FIDO 5-19. | 3.3 | 7 |
| 112 | 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 |
| 113 | New insights into the mineralogy and weathering of the Meridiani Planum meteorite, Mars. Meteoritics and Planetary Science, 2011, 46, 21-34. | 1.6 | 7 |
| 114 | Seasonal Atmospheric Argon Variability Measured in the Equatorial Region of Mars by the Mars Exploration Rover Alpha Particle Xâ€Ray Spectrometers: Evidence for an Annual Argonâ€Enriched Front. Journal of Geophysical Research E: Planets, 2018, 123, 544-558. | 3.6 | 6 |
| 115 | Geology and Geochemistry of Noachian Bedrock and Alteration Events, Meridiani Planum, Mars: MER Opportunity Observations. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006915. | 3.6 | 6 |
| 116 | Elemental Analyses of Mars from Rovers Using the Alpha-Particle X-Ray Spectrometer. , 2019, , 555-572. | | 5 |
| 117 | Mars Exploration Rover Opportunity. , 2019, , 285-328. | | 5 |
| 118 | Constraining the chemical depth profile of a manganese-rich surface layer in Gale crater, Mars. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2022, 191, 106410. | 2.9 | 4 |
| 119 | LOCALIZED AND AREALLY EXTENSIVE ALTERATIONS IN MARATHON VALLEY, ENDEAVOUR CRATER RIM, MARS. , 2016, , . | | 3 |
| 120 | Alteration Processes in Gusev Crater, Mars. , 2019, , 329-368. | | 2 |
| 121 | F-56 in Situ Measurement of Hydration of Martian Soils and Rocks Using the Scatter Component of the XRF Spectrum. Powder Diffraction, 2007, 22, 175-175. | 0.2 | 0 |