

Roger C Wiens

List of Publications by Year in descending order

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218
papers

15,945
citations

14655

66
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19749

117
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234
all docs

234
docs citations

234
times ranked

6303
citing authors

#	ARTICLE	IF	CITATIONS
1	The SuperCam infrared spectrometer for the perseverance rover of the Mars2020 mission. <i>Icarus</i> , 2022, 373, 114773.	2.5	19
2	SuperCam calibration targets on board the perseverance rover: Fabrication and quantitative characterization. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 188, 106341.	2.9	20
3	Post-landing major element quantification using SuperCam laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 188, 106347.	2.9	40
4	Bedrock Geochemistry and Alteration History of the Clay-Bearing Glen Torridon Region of Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	17
5	An Insight Into Ancient Aeolian Processes and Post-Noachian Aqueous Alteration in Gale Crater, Mars, Using ChemCam Geochemical Data From the Greenheugh Capping Unit. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	11
6	In situ recording of Mars soundscape. <i>Nature</i> , 2022, 605, 653-658.	27.8	30
7	Optical calibration of the SuperCam instrument body unit spectrometers. <i>Applied Optics</i> , 2022, 61, 2967.	1.8	4
8	Overview of the Morphology and Chemistry of Diagenetic Features in the Clay-Rich Glen Torridon Unit of Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	17
9	Identifying Shocked Feldspar on Mars Using Perseverance Spectroscopic Instruments: Implications for Geochronology Studies on Returned Samples. <i>Earth, Moon and Planets</i> , 2022, 126, .	0.6	4
10	Homogeneity assessment of the SuperCam calibration targets onboard rover perseverance. <i>Analytica Chimica Acta</i> , 2022, 1209, 339837.	5.4	9
11	The dynamic atmospheric and aeolian environment of Jezero crater, Mars. <i>Science Advances</i> , 2022, 8, .	10.3	47
12	From Lake to River: Documenting an Environmental Transition Across the Jura/Knockfarril Hill Members Boundary in the Glen Torridon Region of Gale Crater (Mars). <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	19
13	Barometric Pumping Through Fractured Rock: A Mechanism for Venting Deep Methane to Mars' Atmosphere. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3
14	Deposition and erosion of a Light-Toned Yardang-forming unit of Mt Sharp, Gale crater, Mars. <i>Earth and Planetary Science Letters</i> , 2021, 554, 116681.	4.4	13
15	Experimental Wind Characterization with the SuperCam Microphone under a Simulated martian Atmosphere. <i>Icarus</i> , 2021, 354, 114060.	2.5	12
16	OrganiCam: a lightweight time-resolved laser-induced luminescence imager and Raman spectrometer for planetary organic material characterization. <i>Applied Optics</i> , 2021, 60, 3753.	1.8	3
17	The SuperCam Instrument Suite on the Mars 2020 Rover: Science Objectives and Mast-Unit Description. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	131
18	Alternating wet and dry depositional environments recorded in the stratigraphy of Mount Sharp at Gale crater, Mars. <i>Geology</i> , 2021, 49, 842-846.	4.4	33

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19	Perseverance's Scanning Habitable Environments with Raman and Luminescence for Organics and Chemicals (SHERLOC) Investigation. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	94
20	Quantification of manganese for ChemCam Mars and laboratory spectra using a multivariate model. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 181, 106223.	2.9	16
21	Brine-driven destruction of clay minerals in Gale crater, Mars. <i>Science</i> , 2021, 373, 198-204.	12.6	52
22	Improving ChemCam LIBS long-distance elemental compositions using empirical abundance trends. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 182, 106247.	2.9	16
23	Laser-Induced Breakdown Spectroscopy (LIBS) characterization of granular soils: Implications for ChemCam analyses at Gale crater, Mars. <i>Icarus</i> , 2021, 365, 114481.	2.5	11
24	The Genesis Solar-Wind Mission: first deep-space robotic mission to return to earth. , 2021, , 105-122.		2
25	The SuperCam Instrument Suite on the NASA Mars 2020 Rover: Body Unit and Combined System Tests. <i>Space Science Reviews</i> , 2021, 217, 4.	8.1	160
26	Perseverance rover reveals an ancient delta-lake system and flood deposits at Jezero crater, Mars. <i>Science</i> , 2021, 374, 711-717.	12.6	86
27	Clustering Supported Classification of ChemCam Data From Gale Crater, Mars. <i>Earth and Space Science</i> , 2021, 8, .	2.6	7
28	Long-Distance 3D Reconstructions Using Photogrammetry with Curiosity's ChemCam Remote Micro-Imager in Gale Crater (Mars). <i>Remote Sensing</i> , 2021, 13, 4068.	4.0	5
29	Acoustic monitoring of laser-induced phase transitions in minerals: implication for Mars exploration with SuperCam. <i>Scientific Reports</i> , 2021, 11, 24019.	3.3	12
30	Extraformational sediment recycling on Mars. , 2020, 16, 1508-1537.		20
31	Automatic preprocessing of laser-induced breakdown spectra using partial least squares regression and feed-forward artificial neural network: Applications to Earth and Mars data. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 171, 105930.	2.9	22
32	Mars 2020 Mission Overview. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	239
33	Analyses of High-Iron Sedimentary Bedrock and Diagenetic Features Observed With ChemCam at Vera Rubin Ridge, Gale Crater, Mars: Calibration and Characterization. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006314.	3.6	30
34	Evidence for a Diagenetic Origin of Vera Rubin Ridge, Gale Crater, Mars: Summary and Synthesis of Curiosity's Exploration Campaign. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006527.	3.6	69
35	Pre-launch radiometric calibration of the infrared spectrometer onboard SuperCam for the Mars2020 rover. <i>Review of Scientific Instruments</i> , 2020, 91, 063105.	1.3	10
36	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.	3.6	27

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37	Recording laser-induced sparks on Mars with the SuperCam microphone. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 174, 106000.	2.9	25
38	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.	3.6	20
39	Iron Mobility During Diagenesis at Vera Rubin Ridge, Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006299.	3.6	30
40	Boron and Lithium in Calcium Sulfate Veins: Tracking Precipitation of Diagenetic Materials in Vera Rubin Ridge, Gale Crater. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006301.	3.6	8
41	SuperCam Calibration Targets: Design and Development. <i>Space Science Reviews</i> , 2020, 216, 138.	8.1	44
42	Mars Extant Life: What's Next? Conference Report. <i>Astrobiology</i> , 2020, 20, 785-814.	3.0	56
43	Laser-induced breakdown spectroscopy in planetary science. , 2020, , 441-471.		4
44	Origin and composition of three heterolithic boulder- and cobble-bearing deposits overlying the Murray and Stimson formations, Gale Crater, Mars. <i>Icarus</i> , 2020, 350, 113897.	2.5	11
45	The Chemostratigraphy of the Murray Formation and Role of Diagenesis at Vera Rubin Ridge in Gale Crater, Mars, as Observed by the ChemCam Instrument. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006320.	3.6	41
46	Studies of a Lacustrine Volcanic Mars Analog Field Site With Mars-Like Instruments. <i>Earth and Space Science</i> , 2020, 7, e2019EA000720.	2.6	18
47	Magnesium isotopes of the bulk solar wind from Genesis diamond-like carbon films. <i>Meteoritics and Planetary Science</i> , 2020, 55, 352-375.	1.6	12
48	Grain Size Variations in the Murray Formation: Stratigraphic Evidence for Changing Depositional Environments in Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006230.	3.6	29
49	Geochemical variation in the Stimson formation of Gale crater: Provenance, mineral sorting, and a comparison with modern Martian dunes. <i>Icarus</i> , 2020, 341, 113622.	2.5	31
50	Mineralogy and geochemistry of sedimentary rocks and eolian sediments in Gale crater, Mars: A review after six Earth years of exploration with Curiosity. <i>Chemie Der Erde</i> , 2020, 80, 125605.	2.0	137
51	Identification and Description of a Silicic Volcaniclastic Layer in Gale Crater, Mars, Using Active Neutron Interrogation. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006180.	3.6	16
52	Hydrogen Variability in the Murray Formation, Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006289.	3.6	12
53	Pulsed laser-induced heating of mineral phases: Implications for laser-induced breakdown spectroscopy combined with Raman spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 160, 105687.	2.9	27
54	Mars Science Laboratory Observations of Chloride Salts in Gale Crater, Mars. <i>Geophysical Research Letters</i> , 2019, 46, 10754-10763.	4.0	52

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55	An interval of high salinity in ancient Gale crater lake on Mars. <i>Nature Geoscience</i> , 2019, 12, 889-895.	12.9	105
56	Mineral-filled Fractures as Indicators of Multigenerational Fluid Flow in the Pahrump Hills Member of the Murray Formation, Gale Crater, Mars. <i>Earth and Space Science</i> , 2019, 6, 238-265.	2.6	66
57	Listening to laser sparks: a link between Laser-Induced Breakdown Spectroscopy, acoustic measurements and crater morphology. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 153, 50-60.	2.9	57
58	Elemental Analyses of Mars from Rovers with Laser-Induced Breakdown Spectroscopy by ChemCam and SuperCam. , 2019, , 573-587.		0
59	Late-stage diagenetic concretions in the Murray formation, Gale crater, Mars. <i>Icarus</i> , 2019, 321, 866-890.	2.5	50
60	Copper enrichments in the Kimberley formation in Gale crater, Mars: Evidence for a Cu deposit at the source. <i>Icarus</i> , 2019, 321, 736-751.	2.5	23
61	Chemical alteration of fine-grained sedimentary rocks at Gale crater. <i>Icarus</i> , 2019, 321, 619-631.	2.5	52
62	Alteration trends and geochemical source region characteristics preserved in the fluviolacustrine sedimentary record of Gale crater, Mars. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 246, 234-266.	3.9	39
63	Using ChemCam LIBS data to constrain grain size in rocks on Mars: Proof of concept and application to rocks at Yellowknife Bay and Pahrump Hills, Gale crater. <i>Icarus</i> , 2019, 321, 82-98.	2.5	37
64	Laser-induced breakdown spectroscopy acoustic testing of the Mars 2020 microphone. <i>Planetary and Space Science</i> , 2019, 165, 260-271.	1.7	32
65	Investigating the role of anhydrous oxidative weathering on sedimentary rocks in the Transantarctic Mountains and implications for the modern weathering of sedimentary lithologies on Mars. <i>Icarus</i> , 2019, 319, 669-684.	2.5	8
66	The SuperCam infrared instrument on the NASA MARS2020 mission: performance and qualification results. , 2019, , .		5
67	Retrieval of water vapor column abundance and aerosol properties from ChemCam passive sky spectroscopy. <i>Icarus</i> , 2018, 307, 294-326.	2.5	39
68	Chemical variability in mineralized veins observed by ChemCam on the lower slopes of Mount Sharp in Gale crater, Mars. <i>Icarus</i> , 2018, 311, 69-86.	2.5	34
69	Shaler: <i>in situ</i> analysis of a fluvial sedimentary deposit on Mars. <i>Sedimentology</i> , 2018, 65, 96-122.	3.1	59
70	Gypsum, bassanite, and anhydrite at Gale crater, Mars. <i>American Mineralogist</i> , 2018, 103, 1011-1020.	1.9	96
71	Desiccation cracks provide evidence of lake drying on Mars, Sutton Island member, Murray formation, Gale Crater. <i>Geology</i> , 2018, 46, 515-518.	4.4	71
72	Martian Eolian Dust Probed by ChemCam. <i>Geophysical Research Letters</i> , 2018, 45, 10,968.	4.0	40

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73	In Situ Analysis of Opal in Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2018, 123, 1955-1972.	3.6	36
74	Bagnold Dunes Campaign Phase 2: Visible/Near-Infrared Reflectance Spectroscopy of Longitudinal Ripple Sands. Geophysical Research Letters, 2018, 45, 9480-9487.	4.0	17
75	The NASA Mars 2020 Rover Mission and the Search for Extraterrestrial Life. , 2018, , 275-308.		95
76	Incorporating AEGIS autonomous science into Mars Science Laboratory rover mission operations. , 2018, , .		2
77	Characterization of Hydrogen in Basaltic Materials With Laser-Induced Breakdown Spectroscopy (<sc>LIBS</sc>) for Application to <sc>MSL</sc> ChemCam Data. Journal of Geophysical Research E: Planets, 2018, 123, 1996-2021.	3.6	32
78	Simulated laser-induced breakdown spectra of graphite and synthetic shergottite glass under Martian conditions. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 148, 31-43.	2.9	7
79	Spark plasma sintering preparation of reference targets for field spectroscopy on Mars. Journal of Raman Spectroscopy, 2018, 49, 1419-1425.	2.5	11
80	Recalibration of the Mars Science Laboratory ChemCam instrument with an expanded geochemical database. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 129, 64-85.	2.9	137
81	Quantification of water content by laser induced breakdown spectroscopy on Mars. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 130, 82-100.	2.9	65
82	Classification of igneous rocks analyzed by ChemCam at Gale crater, Mars. Icarus, 2017, 288, 265-283.	2.5	96
83	Visible/near-infrared spectral diversity from in situ observations of the Bagnold Dune Field sands in Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2017, 122, 2655-2684.	3.6	40
84	AEGIS autonomous targeting for ChemCam on Mars Science Laboratory: Deployment and results of initial science team use. Science Robotics, 2017, 2, .	17.6	76
85	Diagenetic silica enrichment and late-stage groundwater activity in Gale crater, Mars. Geophysical Research Letters, 2017, 44, 4716-4724.	4.0	87
86	Redox stratification of an ancient lake in Gale crater, Mars. Science, 2017, 356, .	12.6	209
87	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
88	Centimeter to decimeter hollow concretions and voids in Gale Crater sediments, Mars. Icarus, 2017, 289, 144-156.	2.5	12
89	Alkali trace elements in Gale crater, Mars, with ChemCam: Calibration update and geological implications. Journal of Geophysical Research E: Planets, 2017, 122, 650-679.	3.6	48
90	Characterization of LIBS emission lines for the identification of chlorides, carbonates, and sulfates in salt/basalt mixtures for the application to MSL ChemCam data. Journal of Geophysical Research E: Planets, 2017, 122, 744-770.	3.6	57

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91	Improved accuracy in quantitative laser-induced breakdown spectroscopy using sub-models. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 129, 49-57.	2.9	71
92	Geologic overview of the Mars Science Laboratory rover mission at the Kimberley, Gale crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2-20.	3.6	60
93	Roughness effects on the hydrogen signal in laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 137, 13-22.	2.9	34
94	In situ detection of boron by ChemCam on Mars. <i>Geophysical Research Letters</i> , 2017, 44, 8739-8748.	4.0	56
95	Understanding heterogeneity in Genesis diamond-like carbon film using SIMS analysis of implants. <i>Journal of Materials Science</i> , 2017, 52, 11282-11305.	3.7	7
96	Branching Ratios in Vacuum Ultraviolet Photodissociation of CO and N ₂ : Implications for Oxygen and Nitrogen Isotopic Compositions of the Solar Nebula. <i>Astrophysical Journal</i> , 2017, 850, 48.	4.5	17
97	Basaltic trachybasalt samples in Gale Crater, Mars. <i>Meteoritics and Planetary Science</i> , 2017, 52, 2931-2410.	1.6	34
98	Geochemistry of the Bagnold dune field as observed by ChemCam and comparison with other aeolian deposits at Gale Crater. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2144-2162.	3.6	46
99	Classification scheme for sedimentary and igneous rocks in Gale crater, Mars. <i>Icarus</i> , 2017, 284, 1-17.	2.5	46
100	Fluidized-sediment pipes in Gale crater, Mars, and possible Earth analogs. <i>Geology</i> , 2017, 45, 7-10.	4.4	18
101	Chemistry of diagenetic features analyzed by ChemCam at Pahrump Hills, Gale crater, Mars. <i>Icarus</i> , 2017, 281, 121-136.	2.5	90
102	Determining the Elemental and Isotopic Composition of the Pre-solar Nebula from Genesis Data Analysis: The Case of Oxygen. <i>Astrophysical Journal Letters</i> , 2017, 851, L12.	8.3	15
103	The supercam infrared instrument on the NASA Mars2020 mission: optical design and performance. , 2017, , .		3
104	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.	1.9	31
105	Oxidation of manganese in an ancient aquifer, Kimberley formation, Gale crater, Mars. <i>Geophysical Research Letters</i> , 2016, 43, 7398-7407.	4.0	110
106	Restoration of the Autofocus capability of the ChemCam instrument onboard the Curiosity rover. , 2016, , .		8
107	Observation of >5 wt % zinc at the Kimberley outcrop, Gale crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 338-352.	3.6	32
108	Composition of conglomerates analyzed by the Curiosity rover: Implications for Gale Crater crust and sediment sources. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 353-387.	3.6	53

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109	Analysis of geological materials containing uranium using laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 120, 1-8.	2.9	40
110	Application of distance correction to ChemCam laser-induced breakdown spectroscopy measurements. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 120, 19-29.	2.9	27
111	Magmatic complexity on early Mars as seen through a combination of orbital, in-situ and meteorite data. <i>Lithos</i> , 2016, 254-255, 36-52.	1.4	66
112	Mineralogy, provenance, and diagenesis of a potassic basaltic sandstone on Mars: ChemCam X-ray diffraction of the Windjana sample (Kimberley area, Gale Crater). <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 75-106.	3.6	159
113	Hydration state of calcium sulfates in Gale crater, Mars: Identification of bassanite veins. <i>Earth and Planetary Science Letters</i> , 2016, 452, 197-205.	4.4	103
114	Fluids during diagenesis and sulfate vein formation in sediments at Gale crater, Mars. <i>Meteoritics and Planetary Science</i> , 2016, 51, 2175-2202.	1.6	50
115	Standoff Biofinder for Fast, Noncontact, Nondestructive, Large-Area Detection of Biological Materials for Planetary Exploration. <i>Astrobiology</i> , 2016, 16, 715-729.	3.0	12
116	The potassic sedimentary rocks in Gale Crater, Mars, as seen by ChemCam on board <i>Curiosity</i> . <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 784-804.	3.6	67
117	ChemCam investigation of the John Klein and Cumberland drill holes and tailings, Gale crater, Mars. <i>Icarus</i> , 2016, 277, 330-341.	2.5	6
118	ChemCam activities and discoveries during the nominal mission of the Mars Science Laboratory in Gale crater, Mars. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 863-889.	3.0	134
119	AEGIS autonomous targeting for the Curiosity rover's ChemCam instrument. , 2015, , .		13
120	Diagenesis and clay mineral formation at Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 1-19.	3.6	72
121	VARIATIONS IN SOLAR WIND FRACTIONATION AS SEEN BY ACE/SWICS AND THE IMPLICATIONS FOR GENESIS MISSION RESULTS. <i>Astrophysical Journal</i> , 2015, 812, 1.	4.5	24
122	SHERLOC: Scanning habitable environments with Raman & luminescence for organics & chemicals. , 2015, , .		67
123	Chemical variations in Yellowknife Bay formation sedimentary rocks analyzed by ChemCam on board the Curiosity rover on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 452-482.	3.6	51
124	Hydrogen detection with ChemCam at Gale crater. <i>Icarus</i> , 2015, 249, 43-61.	2.5	58
125	First detection of fluorine on Mars: Implications for Gale Crater's geochemistry. <i>Geophysical Research Letters</i> , 2015, 42, 1020-1028.	4.0	107
126	ChemCam: Chemostratigraphy by the First Mars Microprobe. <i>Elements</i> , 2015, 11, 33-38.	0.5	54

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127	Theoretical modeling and analysis of the emission spectra of a ChemCam standard: Basalt BIR-1A. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 110, 20-30.	2.9	8
128	In situ evidence for continental crust on early Mars. <i>Nature Geoscience</i> , 2015, 8, 605-609.	12.9	233
129	Evidence for indigenous nitrogen in sedimentary and aeolian deposits from the <i>Curiosity</i> rover investigations at Gale crater, Mars. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4245-4250.	7.1	172
130	Deposition, exhumation, and paleoclimate of an ancient lake deposit, Gale crater, Mars. <i>Science</i> , 2015, 350, aac7575.	12.6	471
131	Gale crater and impact processes “Curiosity”’s first 364 Sols on Mars. <i>Icarus</i> , 2015, 249, 108-128.	2.5	37
132	Compositions of coarse and fine particles in martian soils at gale: A window into the production of soils. <i>Icarus</i> , 2015, 249, 22-42.	2.5	64
133	The ChemCam Remote Micro-Imager at Gale crater: Review of the first year of operations on Mars. <i>Icarus</i> , 2015, 249, 93-107.	2.5	95
134	Understanding the signature of rock coatings in laser-induced breakdown spectroscopy data. <i>Icarus</i> , 2015, 249, 62-73.	2.5	49
135	ChemCam passive reflectance spectroscopy of surface materials at the Curiosity landing site, Mars. <i>Icarus</i> , 2015, 249, 74-92.	2.5	70
136	ChemCam results from the Shaler outcrop in Gale crater, Mars. <i>Icarus</i> , 2015, 249, 2-21.	2.5	52
137	Two Years of Operations of the ChemCam Instrument Onboard the Curiosity Rover. , 2015, , 403-434.		0
138	High manganese concentrations in rocks at Gale crater, Mars. <i>Geophysical Research Letters</i> , 2014, 41, 5755-5763.	4.0	81
139	Trace element geochemistry (Li, Ba, Sr, and Rb) using <i>Curiosity</i> 's ChemCam: Early results for Gale crater from Bradbury Landing Site to Rocknest. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 255-285.	3.6	86
140	Correcting for variable laser-target distances of laser-induced breakdown spectroscopy measurements with ChemCam using emission lines of Martian dust spectra. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 96, 51-60.	2.9	45
141	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1245267.	12.6	323
142	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1242777.	12.6	687
143	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1244734.	12.6	246
144	Calcium sulfate veins characterized by ChemCam/ <i>Curiosity</i> at Gale crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1991-2016.	3.6	214

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145	In situ calibration using univariate analyses based on the onboard ChemCam targets: first prediction of Martian rock and soil compositions. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 99, 34-51.	2.9	45
146	Terrain physical properties derived from orbital data and the first 360 sols of Mars Science Laboratory Curiosity rover observations in Gale Crater. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1322-1344.	3.6	43
147	The rock abrasion record at Gale Crater: Mars Science Laboratory results from Bradbury Landing to Rocknest. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1374-1389.	3.6	46
148	Diagenetic origin of nodules in the Sheepbed member, Yellowknife Bay formation, Gale crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1637-1664.	3.6	80
149	Overview of the Mars Science Laboratory mission: Bradbury Landing to Yellowknife Bay and beyond. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1134-1161.	3.6	104
150	Geochemical diversity in first rocks examined by the Curiosity Rover in Gale Crater: Evidence for and significance of an alkali and volatile-rich igneous source. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 64-81.	3.6	113
151	Chemistry and texture of the rocks at Rocknest, Gale Crater: Evidence for sedimentary origin and diagenetic alteration. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 2109-2131.	3.6	48
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