Olivier Forni

List of Publications by Year
in descending order

172	18,228	10979 71	12258 133
papers	citations	h-index	g-index

175	175	175	9645
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Phyllosilicates on Mars and implications for early martian climate. Nature, 2005, 438, 623-627.	13.7	825
2	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1242777.	6.0	687
3	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A27.	2.1	535
4	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A24.	2.1	525
5	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1243480.	6.0	508
6	Planck2013 results. XX. Cosmology from Sunyaevâ€“Zeldovich cluster counts. Astronomy and Astrophysics, 2014, 571, A20.	2.1	465
7	The ChemCam Instrument Suite on the Mars Science Laboratory (MSL) Rover: Body Unit and Combined System Tests. Space Science Reviews, 2012, 170, 167-227.	3.7	429
8	Planckearly results. I. ThePlanckmission. Astronomy and Astrophysics, 2011, 536, A1.	2.1	394
9	Planck2013 results. XXIX. ThePlanckcatalogue of Sunyaev-Zeldovich sources. Astronomy and Astrophysics, 2014, 571, A29.	2.1	380
10	The ChemCam Instrument Suite on the Mars Science Laboratory (MSL) Rover: Science Objectives and Mast Unit Description. Space Science Reviews, 2012, 170, 95-166.	3.7	372
11	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. Science, 2013, 341, 1238937.	6.0	367
12	Planckearly results. VIII. The all-sky early Sunyaev-Zeldovich cluster sample. Astronomy and Astrophysics, 2011, 536, A8.	2.1	335
13	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. Science, 2013, 341, 1238932.	6.0	327
14	Martian Fluvial Conglomerates at Gale Crater. Science, 2013, 340, 1068-1072.	6.0	326
15	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267.	6.0	323
16	Planckearly results. XIX. All-sky temperature and dust optical depth fromPlanckand IRAS. Constraints on the â€œdark gasâ€•in our Galaxy. Astronomy and Astrophysics, 2011, 536, A19.	2.1	314
17	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. Science, 2013, 341, 1239505.	6.0	280
18	Planckintermediate results. Astronomy and Astrophysics, 2013, 550, A131.	2.1	276

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19	Planckpre-launch status: ThePlanckmission. Astronomy and Astrophysics, 2010, 520, A1.	2.1	268
20	Pre-flight calibration and initial data processing for the ChemCam laser-induced breakdown spectroscopy instrument on the Mars Science Laboratory rover. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 82, 1-27.	1.5	258
21	Mineralogy of an ancient lacustrine mudstone succession from the Murray formation, Gale crater, Mars. Earth and Planetary Science Letters, 2017, 471, 172-185.	1.8	247
22	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734.	6.0	246
23	In situ evidence for continental crust on early Mars. Nature Geoscience, 2015, 8, 605-609.	5.4	233
24	Planckearly results. VII. The Early Release Compact Source Catalogue. Astronomy and Astrophysics, 2011, 536, A7.	2.1	224
25	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. Science, 2013, 341, 1238670.	6.0	215
26	Calcium sulfate veins characterized by ChemCam/Curiosity at Gale crater, Mars. Journal of Geophysical Research E: Planets, 2014, 119, 1991-2016.	1.5	214
27	Elemental Mapping by Dawn Reveals Exogenic H in Vestaâ€™s Regolith. Science, 2012, 338, 242-246.	6.0	201
28	Planckearly results. XXV. Thermal dust in nearby molecular clouds. Astronomy and Astrophysics, 2011, 536, A25.	2.1	184
29	Planckearly results. XVIII. The power spectrum of cosmic infrared background anisotropies. Astronomy and Astrophysics, 2011, 536, A18.	2.1	180
30	Planckearly results. XXIV. Dust in the diffuse interstellar medium and the Galactic halo. Astronomy and Astrophysics, 2011, 536, A24.	2.1	179
31	Planckearly results. XI. Calibration of the local galaxy cluster Sunyaev-Zeldovich scaling relations. Astronomy and Astrophysics, 2011, 536, A11.	2.1	174
32	Evidence for indigenous nitrogen in sedimentary and aeolian deposits from the Curiosity rover investigations at Gale crater, Mars. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4245-4250.	3.3	172
33	Extensive water ice within Ceresâ€™ aqueously altered regolith: Evidence from nuclear spectroscopy. Science, 2017, 355, 55-59.	6.0	169
34	The SuperCam Instrument Suite on the NASA Mars 2020 Rover: Body Unit and Combined System Tests. Space Science Reviews, 2021, 217, 4.	3.7	160
35	Planckearly results. XX. New light on anomalous microwave emission from spinning dust grains. Astronomy and Astrophysics, 2011, 536, A20.	2.1	155
36	Planckearly results. XXIII. The first all-sky survey of Galactic cold clumps. Astronomy and Astrophysics, 2011, 536, A23.	2.1	152

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37	Planckintermediate results. Astronomy and Astrophysics, 2013, 557, A52.	2.1	141
38	Recalibration of the Mars Science Laboratory ChemCam instrument with an expanded geochemical database. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 129, 64-85.	1.5	137
39	Planckearly results. IV. First assessment of the High Frequency Instrument in-flight performance. Astronomy and Astrophysics, 2011, 536, A4.	2.1	136
40	The Petrochemistry of Jake_M: A Martian Mugearite. Science, 2013, 341, 1239463.	6.0	134
41	ChemCam activities and discoveries during the nominal mission of the Mars Science Laboratory in Gale crater, Mars. Journal of Analytical Atomic Spectrometry, 2016, 31, 863-889.	1.6	134
42	The SuperCam Instrument Suite on the Mars 2020 Rover: Science Objectives and Mast-Unit Description. Space Science Reviews, 2021, 217, 1.	3.7	131
43	Planckearly results. IX.XMM-Newtonfollow-up for validation ofPlanckcluster candidates. Astronomy and Astrophysics, 2011, 536, A9.	2.1	126
44	Results from the ISM experiment. Nature, 1989, 341, 591-593.	13.7	124
45	Planckearly results. X. Statistical analysis of Sunyaev-Zeldovich scaling relations for X-ray galaxy clusters. Astronomy and Astrophysics, 2011, 536, A10.	2.1	124
46	Planckearly results. XVII. Origin of the submillimetre excess dust emission in the Magellanic Clouds. Astronomy and Astrophysics, 2011, 536, A17.	2.1	123
47	Planckearly results. XXI. Properties of the interstellar medium in the Galactic plane. Astronomy and Astrophysics, 2011, 536, A21.	2.1	119
48	Planckearly results. VI. The High Frequency Instrument data processing. Astronomy and Astrophysics, 2011, 536, A6.	2.1	116
49	Igneous mineralogy at Bradbury Rise: The first ChemCam campaign at Gale crater. Journal of Geophysical Research E: Planets, 2014, 119, 30-46.	1.5	114
50	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.	1.5	113
51	Oxidation of manganese in an ancient aquifer, Kimberley formation, Gale crater, Mars. Geophysical Research Letters, 2016, 43, 7398-7407.	1.5	110
52	First detection of fluorine on Mars: Implications for Gale Crater's geochemistry. Geophysical Research Letters, 2015, 42, 1020-1028.	1.5	107
53	Planckintermediate results. Astronomy and Astrophysics, 2013, 554, A139.	2.1	106
54	Planckearly results. XIII. Statistical properties of extragalactic radio sources in thePlanckEarly Release Compact Source Catalogue. Astronomy and Astrophysics, 2011, 536, A13.	2.1	103

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55	Hydration state of calcium sulfates in Gale crater, Mars: Identification of bassanite veins. Earth and Planetary Science Letters, 2016, 452, 197-205.	1.8	103
56	Planckintermediate results. Astronomy and Astrophysics, 2013, 554, A140.	2.1	101
57	Planckearly results. XII. Cluster Sunyaev-Zeldovich optical scaling relations. Astronomy and Astrophysics, 2011, 536, A12.	2.1	100
58	Classification of igneous rocks analyzed by ChemCam at Gale crater, Mars. Icarus, 2017, 288, 265-283.	1.1	96
59	Planckintermediate results. Astronomy and Astrophysics, 2013, 550, A134.	2.1	94
60	Planckearly results. XV. Spectral energy distributions and radio continuum spectra of northern extragalactic radio sources. Astronomy and Astrophysics, 2011, 536, A15.	2.1	93
61	Planckearly results. II. The thermal performance ofPlanck. Astronomy and Astrophysics, 2011, 536, A2.	2.1	91
62	Planck2013 results. XXVI. Background geometry and topology of the Universe. Astronomy and Astrophysics, 2014, 571, A26.	2.1	91
63	Onboard calibration igneous targets for the Mars Science Laboratory Curiosity rover and the Chemistry Camera laser induced breakdown spectroscopy instrument. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 280-289.	1.5	90
64	Chemistry of diagenetic features analyzed by ChemCam at Pahrump Hills, Gale crater, Mars. Icarus, 2017, 281, 121-136.	1.1	90
65	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A23.	2.1	89
66	Planckearly results. XXII. The submillimetre properties of a sample of Galactic cold clumps. Astronomy and Astrophysics, 2011, 536, A22.	2.1	88
67	Elemental analysis of halogens using molecular emission by laser-induced breakdown spectroscopy in air. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 98, 39-47.	1.5	87
68	Laser induced breakdown spectroscopy library for the Martian environment. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 805-814.	1.5	86
69	Trace element geochemistry (Li, Ba, Sr, and Rb) using Curiosity's ChemCam: Early results for Gale crater from Bradbury Landing Site to Rocknest. Journal of Geophysical Research E: Planets, 2014, 119, 255-285.	1.5	86
70	High manganese concentrations in rocks at Gale crater, Mars. Geophysical Research Letters, 2014, 41, 5755-5763.	1.5	81
71	Planckearly results. XVI. ThePlanckview of nearby galaxies. Astronomy and Astrophysics, 2011, 536, A16.	2.1	74
72	Planckearly results. XXVI. Detection withPlanckand confirmation byXMM-Newtonof PLCKÂG266.6â€“27.3, an exceptionally X-ray luminous and massive galaxy cluster atzÂ–Â 1. Astronomy and Astrophysics, 2011, 536, A26.	2.1	72

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73	Desiccation cracks provide evidence of lake drying on Mars, Sutton Island member, Murray formation, Gale Crater. Geology, 2018, 46, 515-518.	2.0	71
74	SIMBIO-SYS: The spectrometer and imagers integrated observatory system for the BepiColombo planetary orbiter. Planetary and Space Science, 2010, 58, 125-143.	0.9	70
75	Chemistry of fractureâ€filling raised ridges in Yellowknife Bay, Gale Crater: Window into past aqueous activity and habitability on Mars. Journal of Geophysical Research E: Planets, 2014, 119, 2398-2415.	1.5	70
76	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A18.	2.1	69
77	The potassic sedimentary rocks in Gale Crater, Mars, as seen by ChemCam on board Curiosity. Journal of Geophysical Research E: Planets, 2016, 121, 784-804.	1.5	67
78	Independent component analysis classification of laser induced breakdown spectroscopy spectra. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 86, 31-41.	1.5	66
79	Chondritic models of 4 Vesta: Implications for geochemical and geophysical properties. Meteoritics and Planetary Science, 2013, 48, 2300-2315.	0.7	66
80	Magmatic complexity on early Mars as seen through a combination of orbital, in-situ and meteorite data. Lithos, 2016, 254-255, 36-52.	0.6	66
81	Quantification of water content by laser induced breakdown spectroscopy on Mars. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 130, 82-100.	1.5	65
82	Uranium on the Moon: Global distribution and U/Th ratio. Geophysical Research Letters, 2010, 37, .	1.5	64
83	Compositions of coarse and fine particles in martian soils at gale: A window into the production of soils. Icarus, 2015, 249, 22-42.	1.1	64
84	Planckintermediate results. Astronomy and Astrophysics, 2013, 550, A129.	2.1	63
85	Planckearly results. XIV. ERCSC validation and extreme radio sources. Astronomy and Astrophysics, 2011, 536, A14.	2.1	61
86	Hydrogen detection with ChemCam at Gale crater. Icarus, 2015, 249, 43-61.	1.1	58
87	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.	1.5	57
88	Listening to laser sparks: a link between Laser-Induced Breakdown Spectroscopy, acoustic measurements and crater morphology. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 153, 50-60.	1.5	57
89	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.	1.5	53
90	Planckintermediate results. Astronomy and Astrophysics, 2013, 550, A133.	2.1	52

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91	ChemCam results from the Shaler outcrop in Gale crater, Mars. Icarus, 2015, 249, 2-21.	1.1	52
92	Mars Science Laboratory Observations of Chloride Salts in Gale Crater, Mars. Geophysical Research Letters, 2019, 46, 10754-10763.	1.5	52
93	Chemical alteration of fine-grained sedimentary rocks at Gale crater. Icarus, 2019, 321, 619-631.	1.1	52
94	Chemical variations in Yellowknife Bay formation sedimentary rocks analyzed by ChemCam on board the Curiosity rover on Mars. Journal of Geophysical Research E: Planets, 2015, 120, 452-482.	1.5	51
95	Planckintermediate results. Astronomy and Astrophysics, 2012, 543, A102.	2.1	50
96	Understanding the signature of rock coatings in laser-induced breakdown spectroscopy data. Icarus, 2015, 249, 62-73.	1.1	49
97	Chemistry and texture of the rocks at Rocknest, Gale Crater: Evidence for sedimentary origin and diagenetic alteration. Journal of Geophysical Research E: Planets, 2014, 119, 2109-2131.	1.5	48
98	Alkali trace elements in Gale crater, Mars, with ChemCam: Calibration update and geological implications. Journal of Geophysical Research E: Planets, 2017, 122, 650-679.	1.5	48
99	SIMBIO-SYS: Scientific Cameras and Spectrometer for the BepiColombo Mission. Space Science Reviews, 2020, 216, 1.	3.7	47
100	Detection and discrimination of cosmological non-Gaussian signatures by multi-scale methods. Astronomy and Astrophysics, 2004, 416, 9-17.	2.1	46
101	Determining the Absolute Abundances of Natural Radioactive Elements on the Lunar Surface byÂtheÂKaguya Gamma-ray Spectrometer. Space Science Reviews, 2010, 154, 193-218.	3.7	46
102	Planckintermediate results. XXVI. Optical identification and redshifts ofPlanckclusters with the RTT150 telescope. Astronomy and Astrophysics, 2015, 582, A29.	2.1	46
103	Geochemistry of the Bagnold dune field as observed by ChemCam and comparison with other aeolian deposits at Gale Crater. Journal of Geophysical Research E: Planets, 2017, 122, 2144-2162.	1.5	46
104	Classification scheme for sedimentary and igneous rocks in Gale crater, Mars. Icarus, 2017, 284, 1-17.	1.1	46
105	Correcting for variable laser-target distances of laser-induced breakdown spectroscopy measurements with ChemCam using emission lines of Martian dust spectra. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 96, 51-60.	1.5	45
106	In situ calibration using univariate analyses based on the onboard ChemCam targets: first prediction of Martian rock and soil compositions. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 99, 34-51.	1.5	45
107	SuperCam Calibration Targets: Design and Development. Space Science Reviews, 2020, 216, 138.	3.7	44
108	A study of the properties of a local dust storm with Mars Express OMEGA and PFS data. Icarus, 2009, 201, 504-516.	1.1	42

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109	Quantitative geochemical mapping of martian elemental provinces. Icarus, 2010, 207, 226-247.	1.1	42
110	Nonlinear mapping technique for data visualization and clustering assessment of LIBS data: application to ChemCam data. Analytical and Bioanalytical Chemistry, 2011, 400, 3247-3260.	1.9	40
111	Martian Eolian Dust Probed by ChemCam. Geophysical Research Letters, 2018, 45, 10,968.	1.5	40
112	Post-landing major element quantification using SuperCam laser induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2022, 188, 106347.	1.5	40
113	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. Icarus, 2019, 321, 82-98.	1.1	37
114	Planckintermediate results. Astronomy and Astrophysics, 2013, 550, A130.	2.1	36
115	Distribution of iron on Vesta. Meteoritics and Planetary Science, 2013, 48, 2237-2251.	0.7	35
116	Roughness effects on the hydrogen signal in laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 137, 13-22.	1.5	34
117	Chemical variability in mineralized veins observed by ChemCam on the lower slopes of Mount Sharp in Gale crater, Mars. Icarus, 2018, 311, 69-86.	1.1	34
118	Observation of >â€‰5â€‰wt % zinc at the Kimberley outcrop, Gale crater, Mars. Journal of Geophysical Research E: Planets, 2016, 121, 338-352.	1.5	32
119	Planckintermediate results. Astronomy and Astrophysics, 2016, 586, A139.	2.1	32
120	Characterization of Hydrogen in Basaltic Materials With Laserâ€Induced Breakdown Spectroscopy (<scp>LIBS</scp>) for Application to <scp>MSL</scp> ChemCam Data. Journal of Geophysical Research E: Planets, 2018, 123, 1996-2021.	1.5	32
121	Analyses of Highâ€Iron Sedimentary Bedrock and Diagenetic Features Observed With ChemCam at Vera Rubin Ridge, Gale Crater, Mars: Calibration and Characterization. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006314.	1.5	30
122	Iron Mobility During Diagenesis at Vera Rubin Ridge, Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006299.	1.5	30
123	In situ recording of Mars soundscape. Nature, 2022, 605, 653-658.	13.7	30
124	Origin and thermal evolution of icy satellites. Surveys in Geophysics, 1995, 16, 533-591.	2.1	27
125	The global distribution of calcium on the Moon: Implications for high-Ca pyroxene in the eastern mare region. Earth and Planetary Science Letters, 2012, 353-354, 93-98.	1.8	27
126	Application of distance correction to ChemCam laser-induced breakdown spectroscopy measurements. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 120, 19-29.	1.5	27

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127	Pulsed laser-induced heating of mineral phases: Implications for laser-induced breakdown spectroscopy combined with Raman spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 160, 105687.	1.5	27
128	Cosmological Non-Gaussian Signature Detection: Comparing Performance of Different Statistical Tests. Eurasip Journal on Advances in Signal Processing, 2005, 2005, 1.	1.0	26
129	Constraining topology in harmonic space. Physical Review D, 2006, 73, .	1.6	26
130	Lunar farside Th distribution measured by Kaguya gamma-ray spectrometer. Earth and Planetary Science Letters, 2012, 337-338, 10-16.	1.8	23
131	Copper enrichments in the Kimberley formation in Gale crater, Mars: Evidence for a Cu deposit at the source. Icarus, 2019, 321, 736-751.	1.1	23
132	First Results of High Performance Ge Gamma-Ray Spectrometer Onboard Lunar Orbiter SELENE (KAGUYA). Journal of the Physical Society of Japan, 2009, 78, 18-25.	0.7	21
133	Planckintermediate results. Astronomy and Astrophysics, 2013, 550, A128.	2.1	20
134	The gammaproteobacterium Achromatium forms intracellular amorphous calcium carbonate and not (crystalline) calcite. Geobiology, 2021, 19, 199-213.	1.1	20
135	SuperCam calibration targets on board the perseverance rover: Fabrication and quantitative characterization. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2022, 188, 106341.	1.5	20
136	PlanckÂintermediate results. XII: Diffuse Galactic components in the Gould Belt system. Astronomy and Astrophysics, 2013, 557, A53.	2.1	19
137	The SuperCam infrared spectrometer for the perseverance rover of the Mars2020 mission. Icarus, 2022, 373, 114773.	1.1	19
138	Convection and lithospheric strength in Dione, an icy satellite of Saturn. Icarus, 1991, 94, 232-245.	1.1	17
139	Bedrock Geochemistry and Alteration History of the Clayâ€Bearing Glen Torridon Region of Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	17
140	Quantification of manganese for ChemCam Mars and laboratory spectra using a multivariate model. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 181, 106223.	1.5	16
141	Topography of the Martian tropical regions with ISM. Planetary and Space Science, 1991, 39, 225-236.	0.9	15
142	Detectability of nontrivial topologies. Physical Review D, 2008, 77, .	1.6	15
143	Planckintermediate results. Astronomy and Astrophysics, 2013, 550, A132.	2.1	15
144	Searching for non-gaussianity: Statistical tests. Astronomy and Astrophysics, 1999, 137, 553-567.	2.1	14

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145	<title>Image and spectral image compression for four experiments on the ROSETTA and Mars Express missions of ESA</title>. , 2000, 4115, 364.		13
146	Centimeter to decimeter hollow concretions and voids in Gale Crater sediments, Mars. Icarus, 2017, 289, 144-156.	1.1	12
147	Origin and composition of three heterolithic boulder- and cobble-bearing deposits overlying the Murray and Stimson formations, Gale Crater, Mars. Icarus, 2020, 350, 113897.	1.1	11
148	Field investigation of volcanic deposits on Vulcano, Italy using a handheld laser-induced breakdown spectroscopy instrument. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 177, 106067.	1.5	11
149	Laser-Induced Breakdown Spectroscopy (LIBS) characterization of granular soils: Implications for ChemCam analyses at Gale crater, Mars. Icarus, 2021, 365, 114481.	1.1	11
150	Pre-launch radiometric calibration of the infrared spectrometer onboard SuperCam for the Mars2020 rover. Review of Scientific Instruments, 2020, 91, 063105.	0.6	10
151	Separating the kinetic Sunyaev-Zel'dovich effect from primary cosmic microwave background fluctuations. Astronomy and Astrophysics, 2004, 420, 49-60.	2.1	10
152	Homogeneity assessment of the SuperCam calibration targets onboard rover perseverance. Analytica Chimica Acta, 2022, 1209, 339837.	2.6	9
153	Mars mantle convection: Influence of phase transitions with core cooling. Planetary and Space Science, 2011, 59, 741-748.	0.9	8
154	Boron and Lithium in Calcium Sulfate Veins: Tracking Precipitation of Diagenetic Materials in Vera Rubin Ridge, Gale Crater. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006301.	1.5	8
155	Geology of large impact craters on Ganymede: Implications on thermal and tectonic histories. Earth, Moon and Planets, 1986, 34, 35-53.	0.3	7
156	Clustering Supported Classification of ChemCam Data From Gale Crater, Mars. Earth and Space Science, 2021, 8, .	1.1	7
157	Germanium Gamma-Ray Spectrometer on SELENE (KAGUYA). Journal of the Physical Society of Japan, 2009, 78, 153-156.	0.7	6
158	The ChemCam Instrument Suite on the Mars Science Laboratory (MSL) Rover: Body Unit and Combined System Tests. , 2012, , 167-227.		6
159	MARS-IRMA: in-situ infrared microscope analysis of Martian soil and rock samples.. Advances in Space Research, 2001, 28, 1219-1224.	1.2	5
160	A new method to investigate hyperspectral image cubes: An application of the wavelet transform. Journal of Geophysical Research, 2006, 111, .	3.3	5
161	The SuperCam infrared instrument on the NASA MARS2020 mission: performance and qualification results. , 2019, , .		5
162	The South Pole-Aitken basin region, Moon: GIS-based geologic investigation using Kaguya elemental information. Advances in Space Research, 2012, 50, 1629-1637.	1.2	4

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163	Estimation method of planetary fast neutron flux by a Ge gamma-ray spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 828, 145-155.	0.7	4
164	Optical calibration of the SuperCam instrument body unit spectrometers. Applied Optics, 2022, 61, 2967.	0.9	4
165	Independent Component Analysis of the Gamma Ray Spectrometer data of SELENE (Kaguya). , 2009, , .		2
166	Origin and Evolution of Comets, Icy Planets and Satellites. Astrophysics and Space Science Library, 1998, , 367-394.	1.0	2
167	Blind statistical indicators of the kinetic Sunyaev-Zel'dovich anisotropies. Astronomy and Astrophysics, 2002, 395, 747-751.	2.1	2
168	The ChemCam Instrument Suite on the Mars Science Laboratory (MSL) Rover: Science Objectives and Mast Unit Description. , 2012, , 95-166.		2
169	Ganymedean pedestal craters distribution: Implications on thermal and tectonic histories. Earth, Moon and Planets, 1986, 34, 177-188.	0.3	1
170	CMB non-Gaussianities from the â€œlocalâ€•universe. New Astronomy Reviews, 2003, 47, 805-810.	5.2	1
171	Multiscale Methods Performances to Detect Cosmological non-Gaussian Signatures. , 2002, 4847, 74.		0
172	Adapted Method for Separating Kinetic SZ Signal from Primary CMB Fluctuations. Eurasip Journal on Advances in Signal Processing, 2005, 2005, 1.	1.0	0