

Violaine Sautter

List of Publications by Year in descending order

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41
papers

6,156
citations

101543

36
h-index

276875

41
g-index

41
all docs

41
docs citations

41
times ranked

3302
citing authors

#	ARTICLE	IF	CITATIONS
1	SuperCam calibration targets on board the perseverance rover: Fabrication and quantitative characterization. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2022, 188, 106341.	2.9	20
2	Homogeneity assessment of the SuperCam calibration targets onboard rover perseverance. Analytica Chimica Acta, 2022, 1209, 339837.	5.4	9
3	Delos Archaeological Marbles: A Preliminary Geochemistry-Based Quarry Provenance Study. Archaeometry, 2021, 63, 907-922.	1.3	6
4	The SuperCam Instrument Suite on the Mars 2020 Rover: Science Objectives and Mast-Unit Description. Space Science Reviews, 2021, 217, 1.	8.1	131
5	Alkali magmatism on Mars: an unexpected diversity. Comptes Rendus - Geoscience, 2021, 353, 61-90.	1.2	8
6	The SuperCam Instrument Suite on the NASA Mars 2020 Rover: Body Unit and Combined System Tests. Space Science Reviews, 2021, 217, 4.	8.1	160
7	SuperCam Calibration Targets: Design and Development. Space Science Reviews, 2020, 216, 138.	8.1	44
8	Copper enrichments in the Kimberley formation in Gale crater, Mars: Evidence for a Cu deposit at the source. Icarus, 2019, 321, 736-751.	2.5	23
9	Martian Eolian Dust Probed by ChemCam. Geophysical Research Letters, 2018, 45, 10,968.	4.0	40
10	Classification of igneous rocks analyzed by ChemCam at Gale crater, Mars. Icarus, 2017, 288, 265-283.	2.5	96
11	Diagenetic silica enrichment and late-stage groundwater activity in Gale crater, Mars. Geophysical Research Letters, 2017, 44, 4716-4724.	4.0	87
12	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
13	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.	3.6	46
14	Oxidation of manganese in an ancient aquifer, Kimberley formation, Gale crater, Mars. Geophysical Research Letters, 2016, 43, 7398-7407.	4.0	110
15	Magmatic complexity on early Mars as seen through a combination of orbital, in-situ and meteorite data. Lithos, 2016, 254-255, 36-52.	1.4	66
16	Hydration state of calcium sulfates in Gale crater, Mars: Identification of bassanite veins. Earth and Planetary Science Letters, 2016, 452, 197-205.	4.4	103
17	The potassic sedimentary rocks in Gale Crater, Mars, as seen by ChemCam on board <i>Curiosity</i> . Journal of Geophysical Research E: Planets, 2016, 121, 784-804.	3.6	67
18	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.	3.0	134

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19	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
20	Hydrogen detection with ChemCam at Gale crater. <i>Icarus</i> , 2015, 249, 43-61.	2.5	58
21	First detection of fluorine on Mars: Implications for Gale Crater's geochemistry. <i>Geophysical Research Letters</i> , 2015, 42, 1020-1028.	4.0	107
22	In situ evidence for continental crust on early Mars. <i>Nature Geoscience</i> , 2015, 8, 605-609.	12.9	233
23	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
24	ChemCam results from the Shaler outcrop in Gale crater, Mars. <i>Icarus</i> , 2015, 249, 2-21.	2.5	52
25	High manganese concentrations in rocks at Gale crater, Mars. <i>Geophysical Research Letters</i> , 2014, 41, 5755-5763.	4.0	81
26	Trace element geochemistry (Li, Ba, Sr, and Rb) using <i>Curiosity's</i> 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
27	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1242777.	12.6	687
28	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1243480.	12.6	508
29	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1244734.	12.6	246
30	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
31	Igneous mineralogy at Bradbury Rise: The first ChemCam campaign at Gale crater. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 30-46.	3.6	114
32	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. <i>Science</i> , 2013, 341, 1238932.	12.6	327
33	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. <i>Science</i> , 2013, 341, 1239505.	12.6	280
34	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. <i>Science</i> , 2013, 341, 1238937.	12.6	367
35	Martian Fluvial Conglomerates at Gale Crater. <i>Science</i> , 2013, 340, 1068-1072.	12.6	326
36	The Petrochemistry of Jake_M: A Martian Mugarite. <i>Science</i> , 2013, 341, 1239463.	12.6	134

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37	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. <i>Science</i> , 2013, 341, 1238670.	12.6	215
38	The ChemCam Instrument Suite on the Mars Science Laboratory (MSL) Rover: Body Unit and Combined System Tests. <i>Space Science Reviews</i> , 2012, 170, 167-227.	8.1	429
39	The ChemCam Instrument Suite on the Mars Science Laboratory (MSL) Rover: Science Objectives and Mast Unit Description. <i>Space Science Reviews</i> , 2012, 170, 95-166.	8.1	372
40	Laser induced breakdown spectroscopy library for the Martian environment. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2011, 66, 805-814.	2.9	86
41	Onboard calibration igneous targets for the Mars Science Laboratory Curiosity rover and the Chemistry Camera laser induced breakdown spectroscopy instrument. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2011, 66, 280-289.	2.9	90