

# Marion Nachon

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

4,589  
citations

172457

29  
h-index

377865

34  
g-index

36  
all docs

36  
docs citations

36  
times ranked

3188  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1242777.   | 12.6 | 687       |
| 2  | Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1243480.  | 12.6 | 508       |
| 3  | Mars's Surface Radiation Environment Measured with the Mars Science Laboratory's Curiosity Rover. Science, 2014, 343, 1244797.  | 12.6 | 475       |
| 4  | Martian Fluvial Conglomerates at Gale Crater. Science, 2013, 340, 1068-1072.  | 12.6 | 326       |
| 5  | Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267.  | 12.6 | 323       |
| 6  | Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734.   | 12.6 | 246       |
| 7  | Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. Science, 2013, 341, 1238670.  | 12.6 | 215       |
| 8  | Calcium sulfate veins characterized by ChemCam/Curiosity at Gale crater, Mars. Journal of Geophysical Research E: Planets, 2014, 119, 1991-2016.  | 3.6  | 214       |
| 9  | The Petrochemistry of Jake_M: A Martian Mugearite. Science, 2013, 341, 1239463.   | 12.6 | 134       |
| 10 | 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       |
| 11 | First detection of fluorine on Mars: Implications for Gale Crater's geochemistry. Geophysical Research Letters, 2015, 42, 1020-1028.  | 4.0  | 107       |
| 12 | An interval of high salinity in ancient Gale crater lake on Mars. Nature Geoscience, 2019, 12, 889-895.   | 12.9 | 105       |
| 13 | 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       |
| 14 | Chemistry of diagenetic features analyzed by ChemCam at Pahrump Hills, Gale crater, Mars. Icarus, 2017, 281, 121-136.   | 2.5  | 90        |
| 15 | High manganese concentrations in rocks at Gale crater, Mars. Geophysical Research Letters, 2014, 41, 5755-5763.   | 4.0  | 81        |
| 16 | Diagenetic origin of nodules in the Sheepbed member, Yellowknife Bay formation, Gale crater, Mars. Journal of Geophysical Research E: Planets, 2014, 119, 1637-1664.                      | 3.6  | 80        |
| 17 | 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.                               | 3.6  | 67        |
| 18 | Mineral-Filled Fractures as Indicators of Multigenerational Fluid Flow in the Pahrump Hills Member of the Murray Formation, Gale Crater, Mars. Earth and Space Science, 2019, 6, 238-265. | 2.6  | 66        |

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|----|--|-----|-----------|
| 19 | Quantification of water content by laser induced breakdown spectroscopy on Mars. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 130, 82-100.  | 2.9 | 65        |
| 20 | 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        |
| 21 | Hydrogen detection with ChemCam at Gale crater. <i>Icarus</i> , 2015, 249, 43-61.  | 2.5 | 58        |
| 22 | ChemCam results from the Shaler outcrop in Gale crater, Mars. <i>Icarus</i> , 2015, 249, 2-21.   | 2.5 | 52        |
| 23 | 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        |
| 24 | Late-stage diagenetic concretions in the Murray formation, Gale crater, Mars. <i>Icarus</i> , 2019, 321, 866-890.  | 2.5 | 50        |
| 25 | Understanding the signature of rock coatings in laser-induced breakdown spectroscopy data. <i>Icarus</i> , 2015, 249, 62-73.   | 2.5 | 49        |
| 26 | Alkali trace elements in Gale crater, Mars, with ChemCam: Calibration update and geological implications. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 650-679.                                | 3.6 | 48        |
| 27 | 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        |
| 28 | 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        |
| 29 | Observation of >5wt % zinc at the Kimberley outcrop, Gale crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 338-352.  | 3.6 | 32        |
| 30 | 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        |
| 31 | 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        |
| 32 | Are different Martian gully morphologies due to different processes on the Kaiser dune field?. <i>Geological Society Special Publication</i> , 2019, 467, 145-164.   | 1.3 | 18        |
| 33 | Centimeter to decimeter hollow concretions and voids in Gale Crater sediments, Mars. <i>Icarus</i> , 2017, 289, 144-156.   | 2.5 | 12        |
| 34 | Coupling Mars Ground and Orbital Views: Generate Viewsheds of Mastcam Images From the Curiosity Rover, Using ArcGIS® and Public Datasets. <i>Earth and Space Science</i> , 2020, 7, e2020EA001247.               | 2.6 | 5         |