

Fred J Calef

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

4,748
citations

304743

22
h-index

395702

33
g-index

33
all docs

33
docs citations

33
times ranked

3353
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	Marsâ€™™ Surface Radiation Environment Measured with the Mars Science Laboratoryâ€™™s Curiosity Rover. Science, 2014, 343, 1244797.	12.6	475
4	Deposition, exhumation, and paleoclimate of an ancient lake deposit, Gale crater, Mars. Science, 2015, 350, aac7575.	12.6	471
5	Martian Fluvial Conglomerates at Gale Crater. Science, 2013, 340, 1068-1072.	12.6	326
6	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267.	12.6	323
7	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734.	12.6	246
8	In Situ Radiometric and Exposure Age Dating of the Martian Surface. Science, 2014, 343, 1247166.	12.6	224
9	Selection of the Mars Science Laboratory Landing Site. Space Science Reviews, 2012, 170, 641-737.	8.1	216
10	Selection of the InSight Landing Site. Space Science Reviews, 2017, 211, 5-95.	8.1	150
11	The Petrochemistry of Jake_M: A Martian Mugearite. Science, 2013, 341, 1239463.	12.6	134
12	The origin and evolution of the Peace Vallis fan system that drains to the <i>Curiosity</i> landing area, Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2014, 119, 705-728.	3.6	112
13	Geology of the InSight landing site on Mars. Nature Communications, 2020, 11, 1014.	12.8	107
14	Minimum effective area for high resolution crater counting of martian terrains. Icarus, 2015, 245, 198-240.	2.5	103
15	Chemistry of diagenetic features analyzed by ChemCam at Pahrump Hills, Gale crater, Mars. Icarus, 2017, 281, 121-136.	2.5	90
16	Diagenetic silica enrichment and lateâ€™stage groundwater activity in Gale crater, Mars. Geophysical Research Letters, 2017, 44, 4716-4724.	4.0	87
17	Perseverance rover reveals an ancient delta-lake system and flood deposits at Jezero crater, Mars. Science, 2021, 374, 711-717.	12.6	86
18	Photogeologic Map of the Perseverance Rover Field Site in Jezero Crater Constructed by the Mars 2020 Science Team. Space Science Reviews, 2020, 216, 1.	8.1	67

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Gale crater and impact processes “ Curiosity”’s first 364 Sols on Mars. <i>Icarus</i> , 2015, 249, 108-128.	2.5	37
22	Location and Setting of the Mars InSight Lander, Instruments, and Landing Site. <i>Earth and Space Science</i> , 2020, 7, e2020EA001248.	2.6	34
23	An Impact Crater Origin for the InSight Landing Site at Homestead Hollow, Mars: Implications for Near Surface Stratigraphy, Surface Processes, and Erosion Rates. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006333.	3.6	24
24	Image and Data Processing for InSight Lander Operations and Science. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	22
25	Degradation of <i>Homestead Hollow</i> at the <i>InSight</i> Landing Site Based on the Distribution and Properties of Local Deposits. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006350.	3.6	20
26	Stratigraphic Relationships in Jezero Crater, Mars: Constraints on the Timing of Fluvial&Lacustrine Activity From Orbital Observations. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006840.	3.6	20
27	Characteristics of pebble and cobble-sized clasts along the Curiosity rover traverse from sol 100 to 750: Terrain types, potential sources, and transport mechanisms. <i>Icarus</i> , 2016, 280, 72-92.	2.5	19
28	Distribution of primary and secondary features in the Pahrump Hills outcrop (Gale crater, Mars) as seen in a Mars Descent Imager (MARDI) “sidewalk” mosaic. <i>Icarus</i> , 2019, 328, 194-209.	2.5	19
29	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
30	Crater Morphometry on the Mafic Floor Unit at Jezero Crater, Mars: Comparisons to a Known Basaltic Lava Plain at the InSight Landing Site. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089607.	4.0	11
31	Comparison of InSight<i>Homestead</i>Hollow to Hollows at the Spirit Landing Site. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006435.	3.6	10
32	Directionality of the Martian Surface Radiation and Derivation of the Upward Albedo Radiation. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093912.	4.0	6
33	Overview of Spirit Microscopic Imager Results. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 528-584.	3.6	4