

David Des Marais

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

2,931
citations

471509

17
h-index

839539

18
g-index

18
all docs

18
docs citations

18
times ranked

2118
citing authors

#	ARTICLE	IF	CITATIONS
1	Brine-driven destruction of clay minerals in Gale crater, Mars. <i>Science</i> , 2021, 373, 198-204.	12.6	52
2	A Review of the Phyllosilicates in Gale Crater as Detected by the CheMin Instrument on the Mars Science Laboratory, Curiosity Rover. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 847.	2.0	23
3	Mineralogy of Vera Rubin Ridge From the Mars Science Laboratory CheMin Instrument. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006306.	3.6	86
4	Hydrothermal Precipitation of Sanidine (Adularia) Having Full Al,Si Structural Disorder and Specular Hematite at Maunakea Volcano (Hawai'i) and at Gale Crater (Mars). <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006324.	3.6	14
5	Evidence for Multiple Diagenetic Episodes in Ancient Fluvial-Lacustrine Sedimentary Rocks in Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006295.	3.6	45
6	Crystal chemistry of martian minerals from Bradbury Landing through Naukluft Plateau, Gale crater, Mars. <i>American Mineralogist</i> , 2018, 103, 857-871.	1.9	94
7	Relationships between unit-cell parameters and composition for rock-forming minerals on Earth, Mars, and other extraterrestrial bodies. <i>American Mineralogist</i> , 2018, 103, 848-856.	1.9	40
8	Sand Mineralogy Within the Bagnold Dunes, Gale Crater, as Observed In Situ and From Orbit. <i>Geophysical Research Letters</i> , 2018, 45, 9488-9497.	4.0	52
9	Clay mineral diversity and abundance in sedimentary rocks of Gale crater, Mars. <i>Science Advances</i> , 2018, 4, eaar3330.	10.3	150
10	Mineralogy of an active eolian sediment from the Namib dune, Gale crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2344-2361.	3.6	98
11	Silicic volcanism on Mars evidenced by tridymite in high-SiO ₂ sedimentary rock at Gale crater. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7071-7076.	7.1	158
12	The origin and implications of clay minerals from Yellowknife Bay, Gale crater, Mars. <i>American Mineralogist</i> , 2015, 100, 824-836.	1.9	122
13	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1245267.	12.6	323
14	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1243480.	12.6	508
15	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1244734.	12.6	246
16	Characterization and Calibration of the CheMin Mineralogical Instrument on Mars Science Laboratory. <i>Space Science Reviews</i> , 2012, 170, 341-399.	8.1	220
17	Preservation of Martian Organic and Environmental Records: Final Report of the Mars Biosignature Working Group. <i>Astrobiology</i> , 2011, 11, 157-181.	3.0	255
18	A synthesis of Martian aqueous mineralogy after 1 Mars year of observations from the Mars Reconnaissance Orbiter. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	445