

Mark R Salvatore

List of Publications by Year in descending order

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33
papers

934
citations

430874

18
h-index

454955

30
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33
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33
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33
times ranked

1023
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray Amorphous Sulfur-bearing Phases in Sedimentary Rocks of Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	10
2	The McMurdo Dry Valleys of Antarctica: a geological, environmental, and ecological analog to the Martian surface and near surface. , 2021, , 291-332.		4
3	X-ray Amorphous Components in Sedimentary Rocks of Gale Crater, Mars: Evidence for Ancient Formation and Long-lived Aqueous Activity. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006782.	3.6	22
4	Modeling Colonial Paternalism: GIS and Multispectral Satellite Imagery at Kingstown, British Virgin Islands. <i>American Antiquity</i> , 2021, 86, 734-751.	1.1	1
5	Counting Carbon: Quantifying Biomass in the McMurdo Dry Valleys through Orbital & Field Observations. <i>International Journal of Remote Sensing</i> , 2021, 42, 8597-8623.	2.9	5
6	Estimating microbial mat biomass in the McMurdo Dry Valleys, Antarctica using satellite imagery and ground surveys. <i>Polar Biology</i> , 2020, 43, 1753-1767.	1.2	16
7	Analyses of High-iron Sedimentary Bedrock and Diagenetic Features Observed With ChemCam at Vera Rubin Ridge, Gale Crater, Mars: Calibration and Characterization. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006314.	3.6	30
8	Evidence for a Diagenetic Origin of Vera Rubin Ridge, Gale Crater, Mars: Summary and Synthesis of Curiosity's Exploration Campaign. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006527.	3.6	69
9	Synergistic Ground and Orbital Observations of Iron Oxides on Mt. Sharp and Vera Rubin Ridge. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006294.	3.6	27
10	Evaluating Alternative Metacommunity Hypotheses for Diatoms in the McMurdo Dry Valleys Using Simulations and Remote Sensing Data. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	2.2	1
11	Iron Mobility During Diagenesis at Vera Rubin Ridge, Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006299.	3.6	30
12	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
13	Remote characterization of photosynthetic communities in the Fryxell basin of Taylor Valley, Antarctica. <i>Antarctic Science</i> , 2020, 32, 255-270.	0.9	19
14	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
15	Chemical alteration of fine-grained sedimentary rocks at Gale crater. <i>Icarus</i> , 2019, 321, 619-631.	2.5	52
16	Investigating the role of anhydrous oxidative weathering on sedimentary rocks in the Transantarctic Mountains and implications for the modern weathering of sedimentary lithologies on Mars. <i>Icarus</i> , 2019, 319, 669-684.	2.5	8
17	Mars analog minerals'™ spectral reflectance characteristics under Martian surface conditions. <i>Icarus</i> , 2018, 306, 50-73.	2.5	9
18	Bulk mineralogy of the NE Syrtis and Jezero crater regions of Mars derived through thermal infrared spectral analyses. <i>Icarus</i> , 2018, 301, 76-96.	2.5	51

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19	A Complex Fluviolacustrine Environment on Early Mars and Its Astrobiological Potentials. <i>Astrobiology</i> , 2018, 18, 1081-1091.	3.0	5
20	Classification of igneous rocks analyzed by ChemCam at Gale crater, Mars. <i>Icarus</i> , 2017, 288, 265-283.	2.5	96
21	The geological history of Northeast Syrtis Major, Mars. <i>Icarus</i> , 2017, 293, 66-93.	2.5	62
22	The geologic history of Margaritifer basin, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 273-295.	3.6	12
23	High-resolution compositional remote sensing of the Transantarctic Mountains: application to the WorldView-2 dataset. <i>Antarctic Science</i> , 2015, 27, 473-491.	0.9	14
24	Characterizing clay mineralogy in Lake Towuti, Indonesia, with reflectance spectroscopy. <i>Journal of Paleolimnology</i> , 2015, 54, 253-261.	1.6	5
25	Integrating CRISM and TES hyperspectral data to characterize a halloysite-bearing deposit in Kashira crater, Mars. <i>Icarus</i> , 2015, 250, 165-187.	2.5	27
26	Alteration of immature sedimentary rocks on Earth and Mars: Recording aqueous and surface-atmosphere processes. <i>Earth and Planetary Science Letters</i> , 2015, 417, 78-86.	4.4	18
27	Hydrothermal alteration and diagenesis of terrestrial lacustrine pillow basalts: Coordination of hyperspectral imaging with laboratory measurements. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 171, 174-200.	3.9	18
28	Visible-infrared spectral properties of iron-bearing aluminate spinel under lunar-like redox conditions. <i>American Mineralogist</i> , 2014, 99, 1821-1833.	1.9	23
29	Evidence for widespread aqueous sedimentation in the northern plains of Mars. <i>Geology</i> , 2014, 42, 423-426.	4.4	60
30	The dominance of cold and dry alteration processes on recent Mars, as revealed through pan-spectral orbital analyses. <i>Earth and Planetary Science Letters</i> , 2014, 404, 261-272.	4.4	18
31	Characterization of spectral and geochemical variability within the Ferrar Dolerite of the McMurdo Dry Valleys, Antarctica: weathering, alteration, and magmatic processes. <i>Antarctic Science</i> , 2014, 26, 49-68.	0.9	13
32	On the origin of the Vastitas Borealis Formation in Chryse and Acidalia Planitiae, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 2437-2456.	3.6	32
33	Development of alteration rinds by oxidative weathering processes in Beacon Valley, Antarctica, and implications for Mars. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 115, 137-161.	3.9	50