

Steven W Ruff

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

2,052
citations

759233

12
h-index

996975

15
g-index

17
all docs

17
docs citations

17
times ranked

1860
citing authors

#	ARTICLE	IF	CITATIONS
1	Bright and dark regions on Mars: Particle size and mineralogical characteristics based on Thermal Emission Spectrometer data. <i>Journal of Geophysical Research</i> , 2002, 107, 2-1-2-22.	3.3	367
2	Identification of Carbonate-Rich Outcrops on Mars by the Spirit Rover. <i>Science</i> , 2010, 329, 421-424.	12.6	358
3	A thermal emission spectral library of rock-forming minerals. <i>Journal of Geophysical Research</i> , 2000, 105, 9735-9739.	3.3	326
4	Quantitative thermal emission spectroscopy of minerals: A laboratory technique for measurement and calibration. <i>Journal of Geophysical Research</i> , 1997, 102, 14899-14913.	3.3	211
5	Silica deposits on Mars with features resembling hot spring biosignatures at El Tatio in Chile. <i>Nature Communications</i> , 2016, 7, 13554.	12.8	192
6	Characteristics, distribution, origin, and significance of opaline silica observed by the Spirit rover in Gusev crater, Mars. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	155
7	Spectral evidence for zeolite in the dust on Mars. <i>Icarus</i> , 2004, 168, 131-143.	2.5	151
8	Rocks of the Columbia Hills. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	146
9	The Case for Ancient Hot Springs in Gusev Crater, Mars. <i>Astrobiology</i> , 2020, 20, 475-499.	3.0	56
10	Distribution and characteristics of Adirondack-class basalt as observed by Mini-TES in Gusev crater, Mars and its possible volcanic source. <i>Icarus</i> , 2012, 218, 917-949.	2.5	29
11	Biomolecules from Fossilized Hot Spring Sinters: Implications for the Search for Life on Mars. <i>Astrobiology</i> , 2020, 20, 537-551.	3.0	24
12	Wishstone to Watchtower: Amorphous alteration of plagioclase-rich rocks in Gusev crater, Mars. <i>American Mineralogist</i> , 2017, 102, 235-251.	1.9	13
13	Characterizing the thermal infrared spectral effects of optically thin surface dust: Implications for remote-sensing and in situ measurements of the martian surface. <i>Icarus</i> , 2015, 262, 173-186.	2.5	9
14	Olivine and carbonate-rich bedrock in Gusev crater and the Nili Fossae region of Mars may be altered ignimbrite deposits. <i>Icarus</i> , 2022, 380, 114974.	2.5	8
15	A Novel Atmospheric Removal Technique for TES Spectra Applied to Olivine and Carbonate-Rich Bedrock in the Nili Fossae Region, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006822.	3.6	5
16	Thermal Infrared Spectral Analyses of Mars from Orbit Using the Thermal Emission Spectrometer and Thermal Emission Imaging System. , 2019, , 484-498.		1
17	Thermal Infrared Remote Sensing of Mars from Rovers Using the Miniature Thermal Emission Spectrometer. , 2019, , 499-512.		1