Joel A Hurowitz

List of Publications by Year
in descending order

50	6,701	117625	197818
papers	citations	34 h-index	49 g-index

51	51	51	4086
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The power of paired proximity science observations: Co-located data from SHERLOC and PIXL on Mars. Icarus, 2022, 387, 115179.	2.5	11
2	Sourceâ€toâ€Sink Terrestrial Analogs for the Paleoenvironment of Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006530.	3.6	15
3	A coupled model of episodic warming, oxidation and geochemical transitions on early Mars. Nature Geoscience, 2021, 14, 127-132.	12.9	64
4	Olivine Dissolution in Simulated Lung and Gastric Fluid as an Analog to the Behavior of Lunar Particulate Matter Inside the Human Respiratory and Gastrointestinal Systems. GeoHealth, 2021, 5, e2021GH000491.	4.0	4
5	PIXL: Planetary Instrument for X-Ray Lithochemistry. Space Science Reviews, 2020, 216, 1.	8.1	58
6	Mars 2020 Mission Overview. Space Science Reviews, 2020, 216, 1.	8.1	239
7	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
8	Unraveling sedimentary processes in fluvial sediments from two basalt dominated watersheds in northern Idaho, USA. Chemical Geology, 2020, 550, 119673.	3.3	12
9	Sediment geochemistry and mineralogy from a glacial terrain river system in southwest Iceland. Geochimica Et Cosmochimica Acta, 2019, 263, 140-166.	3.9	36
10	Lunar soil simulants alter macrophage survival and function. Journal of Applied Toxicology, 2019, 39, 1413-1423.	2.8	4
11	Overview of Spirit Microscopic Imager Results. Journal of Geophysical Research E: Planets, 2019, 124, 528-584.	3.6	4
12	Measurement of OH* Generation by Pulverized Minerals Using Electron Spin Resonance Spectroscopy and Implications for the Reactivity of Planetary Regolith. GeoHealth, 2019, 3, 28-42.	4.0	15
13	A look back: The drilling campaign of the Curiosity rover during the Mars Science Laboratory's Prime Mission. Icarus, 2019, 319, 1-13.	2.5	19
14	Evidence for plunging river plume deposits in the Pahrump Hills member of the Murray formation, Gale crater, Mars. Sedimentology, 2019, 66, 1768-1802.	3.1	80
15	The Sedimentary Cycle on Early Mars. Annual Review of Earth and Planetary Sciences, 2019, 47, 91-118.	11.0	59
16	Assessing Toxicity and Nuclear and Mitochondrial DNA Damage Caused by Exposure of Mammalian Cells to Lunar Regolith Simulants. GeoHealth, 2018, 2, 139-148.	4.0	23
17	Reassessing evidence of life in 3,700-million-year-old rocks of Greenland. Nature, 2018, 563, 241-244.	27.8	114
18	Magnetite authigenesis and the warming of early Mars. Nature Geoscience, 2018, 11, 635-639.	12.9	66

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19	The NASA Mars 2020 Rover Mission and the Search for Extraterrestrial Life. , 2018, , 275-308.		95
20	Organic matter preserved in 3-billion-year-old mudstones at Gale crater, Mars. Science, 2018, 360, 1096-1101.	12.6	369
21	Sorting out compositional trends in sedimentary rocks of the Bradbury group (Aeolis Palus), Gale crater, Mars. Journal of Geophysical Research E: Planets, 2017, 122, 295-328.	3.6	64
22	Diagenetic silica enrichment and lateâ€stage groundwater activity in Gale crater, Mars. Geophysical Research Letters, 2017, 44, 4716-4724.	4.0	87
23	Redox stratification of an ancient lake in Gale crater, Mars. Science, 2017, 356, .	12.6	209
24	Large sulfur isotope fractionations in Martian sediments at Gale crater. Nature Geoscience, 2017, 10, 658-662.	12.9	53
25	Oxidation of manganese in an ancient aquifer, Kimberley formation, Gale crater, Mars. Geophysical Research Letters, 2016, 43, 7398-7407.	4.0	110
26	Silicon isotope systematics of acidic weathering of fresh basalts, Kilauea Volcano, Hawaiâ€™i. Geochimica Et Cosmochimica Acta, 2015, 169, 63-81.	3.9	16
27	Deposition, exhumation, and paleoclimate of an ancient lake deposit, Gale crater, Mars. Science, 2015, 350, aac7575.	12.6	471
28	Contrasting styles of waterâ€“rock interaction at the Mars Exploration Rover landing sites. Geochimica Et Cosmochimica Acta, 2014, 127, 25-38.	3.9	31
29	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267.	12.6	323
30	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1243480.	12.6	508
31	Marsâ€™ Surface Radiation Environment Measured with the Mars Science Laboratoryâ€™s Curiosity Rover. Science, 2014, 343, 1244797.	12.6	475
32	In Situ Radiometric and Exposure Age Dating of the Martian Surface. Science, 2014, 343, 1247166.	12.6	224
33	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734.	12.6	246
34	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. Science, 2013, 341, 1238937.	12.6	367
35	Martian Fluvial Conglomerates at Gale Crater. Science, 2013, 340, 1068-1072.	12.6	326
36	The Petrochemistry of Jake_M: A Martian Mugearite. Science, 2013, 341, 1239463.	12.6	134

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37	Estimating rock compressive strength from Rock Abrasion Tool (RAT) grinds. Journal of Geophysical Research E: Planets, 2013, 118, 1233-1244.	3.6	27
38	Mars Sedimentary Geology: Key Concepts and Outstanding Questions. Astrobiology, 2011, 11, 77-87.	3.0	93
39	Spirit Mars Rover Mission to the Columbia Hills, Gusev Crater: Mission overview and selected results from the Cumberland Ridge to Home Plate. Journal of Geophysical Research, 2008, 113, .	3.3	99
40	Rock spectral classes observed by the Spirit Rover's Pancam on the Gusev Crater Plains and in the Columbia Hills. Journal of Geophysical Research, 2008, 113, .	3.3	37
41	Production of hydrogen peroxide in Martian and lunar soils. Earth and Planetary Science Letters, 2007, 255, 41-52.	4.4	73
42	A â^¼3.5ÂGa record of water-limited, acidic weathering conditions on Mars. Earth and Planetary Science Letters, 2007, 260, 432-443.	4.4	140
43	Overview of the Spirit Mars Exploration Rover Mission to Gusev Crater: Landing site to Backstay Rock in the Columbia Hills. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	238
44	In situ and experimental evidence for acidic weathering of rocks and soils on Mars. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	169
45	Rocks of the Columbia Hills. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	146
46	Mixing relationships and the effects of secondary alteration in the Wishstone and Watchtower Classes of Husband Hill, Gusev Crater, Mars. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	27
47	An integrated view of the chemistry and mineralogy of martian soils. Nature, 2005, 436, 49-54.	27.8	348
48	Water alteration of rocks and soils on Mars at the Spirit rover site in Gusev crater. Nature, 2005, 436, 66-69.	27.8	240
49	Experimental epithermal alteration of synthetic Los Angeles meteorite: Implications for the origin of Martian soils and identification of hydrothermal sites on Mars. Journal of Geophysical Research, 2005, 110, .	3.3	52
50	Scale and timing of Rare Earth Element redistribution in the Taconian foreland of New England. Sedimentology, 2004, 51, 885-897.	3.1	14