I J Daubar

List of Publications by Year in descending order

65 papers	3,185 citations	172386 29 h-index	149623 56 g-index
69 all docs	69 docs citations	69 times ranked	2230 citing authors

#	Article	IF	Citations
1	Distribution of Mid-Latitude Ground Ice on Mars from New Impact Craters. Science, 2009, 325, 1674-1676.	6.0	279
2	Initial results from the InSight mission on Mars. Nature Geoscience, 2020, 13, 183-189.	5.4	274
3	SEIS: Insightâ€™s Seismic Experiment for Internal Structure of Mars. Space Science Reviews, 2019, 215, 12.	3.7	238
4	Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. Nature Geoscience, 2020, 13, 213-220.	5.4	207
5	The seismicity of Mars. Nature Geoscience, 2020, 13, 205-212.	5.4	194
6	The atmosphere of Mars as observed by InSight. Nature Geoscience, 2020, 13, 190-198.	5.4	161
7	The High Resolution Imaging Science Experiment (HiRISE) during MROâ€™s Primary Science Phase (PSP). Icarus, 2010, 205, 2-37.	1.1	153
8	Selection of the InSight Landing Site. Space Science Reviews, 2017, 211, 5-95.	3.7	150
9	Geology of the InSight landing site on Mars. Nature Communications, 2020, 11, 1014.	5.8	107
10	The Structure of Jupiter's Ring System as Revealed by the Galileo Imaging Experiment. Icarus, 1999, 138, 188-213.	1.1	104
11	HiRISE observations of new impact craters exposing Martian ground ice. Journal of Geophysical Research E: Planets, 2014, 119, 109-127.	1.5	98
12	Atmospheric Science with InSight. Space Science Reviews, 2018, 214, 1.	3.7	88
13	Geology and Physical Properties Investigations by the InSight Lander. Space Science Reviews, 2018, 214, 1.	3.7	77
14	The morphology of small fresh craters on Mars and the Moon. Journal of Geophysical Research E: Planets, 2014, 119, 2620-2639.	1.5	66
15	A Pre-Landing Assessment of Regolith Properties at the InSight Landing Site. Space Science Reviews, 2018, 214, 1.	3.7	58
16	Martian cratering 11. Utilizing decameter scale crater populations to study Martian history. Meteoritics and Planetary Science, 2017, 52, 493-510.	0.7	55
17	Seasonally active frostâ€dust avalanches on a north polar scarp of Mars captured by HiRISE. Geophysical Research Letters, 2008, 35, .	1.5	48
18	Impact-Seismic Investigations of the InSight Mission. Space Science Reviews, 2018, 214, 1.	3.7	48

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19	A revised surface age for the North Polar Layered Deposits of Mars. Geophysical Research Letters, 2016, 43, 3060-3068.	1.5	42
20	Measuring impact crater depth throughout the solar system. Meteoritics and Planetary Science, 2018, 53, 583-637.	0.7	41
21	The Marsquake Service: Securing Daily Analysis of SEIS Data and Building the Martian Seismicity Catalogue for InSight. Space Science Reviews, 2018, 214, 1.	3.7	41
22	Phoenix and MRO coordinated atmospheric measurements. Journal of Geophysical Research, 2010, 115, .	3.3	40
23	Preparing for InSight: An Invitation to Participate in a Blind Test for Martian Seismicity. Seismological Research Letters, 2017, 88, 1290-1302.	0.8	37
24	Location and Setting of the Mars InSight Lander, Instruments, and Landing Site. Earth and Space Science, 2020, 7, e2020EA001248.	1.1	34
25	Assessment of InSight Landing Site Predictions. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006502.	1.5	32
26	Northwest Africa 482: A crystalline impactâ€melt breccia from the lunar highlands. Meteoritics and Planetary Science, 2002, 37, 1797-1813.	0.7	30
27	Monitoring of Dust Devil Tracks Around the InSight Landing Site, Mars, and Comparison With In Situ Atmospheric Data. Geophysical Research Letters, 2020, 47, e2020GL087234.	1.5	30
28	Observations of MeV electrons in Jupiter's innermost radiation belts and polar regions by the Juno radiation monitoring investigation: Perijoves 1 and 3. Geophysical Research Letters, 2017, 44, 4481-4488.	1.5	29
29	The Juno Radiation Monitoring (RM) Investigation. Space Science Reviews, 2017, 213, 507-545.	3.7	29
30	Widespread Exposures of Extensive Clean Shallow Ice in the Midlatitudes of Mars. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006617.	1.5	29
31	Composition of Amazonian volcanic materials in Tharsis and Elysium, Mars, from MRO/CRISM reflectance spectra. Icarus, 2019, 328, 274-286.	1.1	27
32	Impact airblast triggers dust avalanches on Mars. Icarus, 2012, 217, 194-201.	1.1	25
33	A New Crater Near InSight: Implications for Seismic Impact Detectability on Mars. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006382.	1.5	24
34	Vortexâ€Dominated Aeolian Activity at InSight's Landing Site, Part 1: Multiâ€Instrument Observations, Analysis, and Implications. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006757.	1.5	23
35	Soil Thermophysical Properties Near the InSight Lander Derived From 50 Sols of Radiometer Measurements. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006859.	1.5	22
36	Bolide Airbursts as a Seismic Source for the 2018 Mars InSight Mission. Space Science Reviews, 2017, 211, 525-545.	3.7	20

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37	Episodes of fluvial and volcanic activity in Mangala Valles, Mars. Icarus, 2015, 245, 333-347.	1.1	18
38	Active Mars: A Dynamic World. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006876.	1.5	17
39	In Situ and Orbital Stratigraphic Characterization of the InSight Landing Siteâ€”A Type Example of a Regolithâ€Covered Lava Plain on Mars. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	17
40	The Seismic Moment and Seismic Efficiency of Small Impacts on Mars. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006540.	1.5	16
41	Recently Formed Crater Clusters on Mars. Journal of Geophysical Research E: Planets, 2019, 124, 958-969.	1.5	15
42	The Approaching Death of the OH/IR star IRAS 18455+0448. Astrophysical Journal, 2001, 548, L77-L80.	1.6	15
43	New Craters on Mars: An Updated Catalog. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	14
44	Seasonal seismic activity on Mars. Earth and Planetary Science Letters, 2021, 576, 117171.	1.8	13
45	Enabling Onboard Detection of Events of Scientific Interest for the Europa Clipper Spacecraft. , 2019, , .		11
46	Seismic constraints from a Mars impact experiment using InSight and Perseverance. Nature Astronomy, 2022, 6, 59-64.	4.2	9
47	Ground penetrating radar geologic field studies of the ejecta of Barringer Meteorite Crater, Arizona, as a planetary analog. Journal of Geophysical Research E: Planets, 2013, 118, 1915-1933.	1.5	8
48	Martian cratering 12. Utilizing primary crater clusters to study crater populations and meteoroid properties. Meteoritics and Planetary Science, 2018, 53, 672-686.	0.7	8
49	Numerical Simulations of the Apollo Sâ€IVB Artificial Impacts on the Moon. Earth and Space Science, 2021, 8, e2021EA001887.	1.1	7
50	Dark halos produced by current impact cratering on Mars. Icarus, 2019, 328, 45-57.	1.1	6
51	The Seismic Signatures of Recently Formed Impact Craters on Mars. Journal of Geophysical Research E: Planets, 2019, 124, 3063-3081.	1.5	6
52	Seismic Efficiency for Simple Crater Formation in the Martian Top Crust Analog. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006662.	1.5	6
53	Meteoroid Fragmentation in the Martian Atmosphere and the Formation of Crater Clusters. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	6
54	Inversion of Meteor Rayleigh Waves on Earth and Modeling of Air Coupled Rayleigh Waves on Mars. Space Science Reviews, 2018, 214, 1.	3.7	5

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55	Preparing for InSight: Evaluation of the Blind Test for Martian Seismicity. Seismological Research Letters, 0, , .	0.8	5
56	Challenges in crater chronology on Mars as reflected in Jezero crater. , 2021, , 97-122.		5
57	Listening for the Landing: Seismic Detections of Perseverance's Arrival at Mars With InSight. Earth and Space Science, 2021, 8, e2020EA001585.	1.1	5
58	SURFACE ALTERATION FROM LANDING INSIGHT ON MARS AND ITS IMPLICATIONS FOR SHALLOW REGOLITH STRUCTURE. , 2019, , .		5
59	Using machine learning to reduce observational biases when detecting new impacts on Mars. Icarus, 2022, 386, 115146.	1.1	3
60	Terrestrial single-station analog for constraining the martian core and deep interior: Implications for InSight. Icarus, 2020, 335, 113396.	1.1	2
61	Questions to Heaven. Astronomy and Geophysics, 2021, 62, 6.22-6.25.	0.1	2
62	Crater Cluster (Atmospheric Breakup). , 2014, , 1-5.		0
63	Secondary Crater Cluster. , 2014, , 1-3.		0
64	Secondary Crater Cluster. , 2015, , 1889-1890.		0
65	Crater Cluster (Atmospheric Breakup). , 2015, , 413-416.		0