Hanna G Sizemore

List of Publications by Year
in descending order

49 papers	1,633 citations	304743 22 h-index	289244 40 g-index
52 all docs	52 docs citations	52 times ranked	1195 citing authors

#	Article	IF	Citations
1	The history of ground ice at Jezero Crater Mars and other past, present, and future landing sites. Icarus, 2022, 371, 114667.	2.5	22
2	Mission Architecture Using the SpaceX Starship Vehicle to Enable a Sustained Human Presence on Mars. New Space, 2022, 10, 259-273.	0.8	14
3	NMR Characterization of unfrozen brine vein distribution and structure in model packed beds. Cold Regions Science and Technology, 2022, 199, 103572.	3.5	1
4	Ceresâ€™ Broadâ€Scale Surface Geomorphology Largely Due To Asymmetric Internal Convection. AGU Advances, 2022, 3, .	5.4	2
5	Availability of subsurface water-ice resources in the northern mid-latitudes of Mars. Nature Astronomy, 2021, 5, 230-236.	10.1	53
6	White Paper Summary of the Final Report from the Ice and Climate Evolution Science Analysis group (ICE-SAG). , 2021, 53, .		0
7	Solar-System-Wide Significance of Mars Polar Science. , 2021, 53, .		2
8	GANGOTRI mission concept on the glacial key to the Amazonian climate of Mars. , 2021, 53, .		1
9	Mid-Latitude Ice on Mars: A Science Target for Planetary Climate Histories and an Exploration Target for In Situ Resources. , 2021, 53, .		2
10	The Mars Orbiter for Resources, Ices, and Environments (MORIE) Science Goals and Instrument Trades in Radar, Imaging, and Spectroscopy. Planetary Science Journal, 2021, 2, 76.	3.6	2
11	Replenishment of Nearâ€Surface Water Ice by Impacts Into Ceres' Volatileâ€Rich Crust: Observations by Dawn's Gamma Ray and Neutron Detector. Geophysical Research Letters, 2021, 48, e2021GL094223.	4.0	2
12	The varied sources of faculae-forming brines in Ceresâ€™ Occator crater emplaced via hydrothermal brine effusion. Nature Communications, 2020, 11, 3680.	12.8	41
13	Impact heat driven volatile redistribution at Occator crater on Ceres as a comparative planetary process. Nature Communications, 2020, 11, 3679.	12.8	19
14	Evidence of non-uniform crust of Ceres from Dawnâ€™s high-resolution gravity data. Nature Astronomy, 2020, 4, 748-755.	10.1	30
15	Impact-driven mobilization of deep crustal brines on dwarf planet Ceres. Nature Astronomy, 2020, 4, 741-747.	10.1	50
16	Post-impact cryo-hydrologic formation of small mounds and hills in Ceresâ€™s Occator crater. Nature Geoscience, 2020, 13, 605-610.	12.9	15
17	A Possible Brine Reservoir Beneath Occator Crater: Thermal and Compositional Evolution and Formation of the Cerealia Dome and Vinalia Faculae. Icarus, 2019, 320, 119-135.	2.5	55
18	The central pit and dome at Cerealia Facula bright deposit and floor deposits in Occator crater, Ceres: Morphology, comparisons and formation. Icarus, 2019, 320, 159-187.	2.5	28

#	Article	IF	Citations
19	Ceres Crater Degradation Inferred From Concentric Fracturing. Journal of Geophysical Research E: Planets, 2019, 124, 1188-1203.	3.6	15
20	Introduction to the Special Issue: Ice on Ceres. Journal of Geophysical Research E: Planets, 2019, 124, 1639-1649.	3.6	1
21	Landslides on Ceres: Diversity and Geologic Context. Journal of Geophysical Research E: Planets, 2019, 124, 3329-3343.	3.6	14
22	Dome formation on Ceres by solid-state flow analogous to terrestrial salt tectonics. Nature Geoscience, 2019, 12, 797-801.	12.9	16
23	Fluidized Appearing Ejecta on Ceres: Implications for the Mechanical Properties, Frictional Properties, and Composition of its Shallow Subsurface. Journal of Geophysical Research E: Planets, 2019, 124, 1819-1839.	3.6	19
24	A Global Inventory of Iceâ€Related Morphological Features on Dwarf Planet Ceres: Implications for the Evolution and Current State of the Cryosphere. Journal of Geophysical Research E: Planets, 2019, 124, 1650-1689.	3.6	33
25	Conditions for the Longâ€Term Preservation of a Deep Brine Reservoir in Ceres. Geophysical Research Letters, 2019, 46, 1963-1972.	4.0	46
26	Landslides on Ceres: Inferences Into Ice Content and Layering in the Upper Crust. Journal of Geophysical Research E: Planets, 2019, 124, 1512-1524.	3.6	16
27	Water Vapor Contribution to Ceres' Exosphere From Observed Surface Ice and Postulated Iceâ€Exposing Impacts. Journal of Geophysical Research E: Planets, 2019, 124, 61-75.	3.6	20
28	Normal Faults on Ceres: Insights Into the Mechanical Properties and Thermal History of Nar Sulcus. Geophysical Research Letters, 2019, 46, 80-88.	4.0	7
29	Geologic mapping of the Urvara and Yalode Quadrangles of Ceres. Icarus, 2018, 316, 167-190.	2.5	23
30	Floorâ€Fractured Craters on Ceres and Implications for Interior Processes. Journal of Geophysical Research E: Planets, 2018, 123, 3188-3204.	3.6	13
31	Cryovolcanic rates on Ceres revealed by topography. Nature Astronomy, 2018, 2, 946-950.	10.1	38
32	Geomorphological evidence for ground ice on dwarf planet Ceres. Nature Geoscience, 2017, 10, 338-343.	12.9	83
33	Extensive water ice within Ceresâ€™ aqueously altered regolith: Evidence from nuclear spectroscopy. Science, 2017, 355, 55-59.	12.6	169
34	Pitted terrains on (1) Ceres and implications for shallow subsurface volatile distribution. Geophysical Research Letters, 2017, 44, 6570-6578.	4.0	48
35	The geomorphology of Ceres. Science, 2016, 353, .	12.6	109
36	HIDDEN ICE: USING AGGREGATE SPATIAL AND PHYSICAL PROPERTIES OF LIKELY GROUND ICE DRIVEN FLOWS ON CERES TO BETTER UNDERSTAND ITS SURFACE COMPOSITION. , 2016, , .		1

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37	Initiation and growth of martian ice lenses. Icarus, 2015, 251, 191-210.	2.5	52
38	In situ analysis of ice table depth variations in the vicinity of small rocks at the Phoenix landing site. Journal of Geophysical Research, 2010, 115, .	3.3	22
39	Seasonal defrosting of the Phoenix landing site. Journal of Geophysical Research, 2010, 115, .	3.3	8
40	Ice table depth variability near small rocks at the Phoenix landing site, Mars: A pre-landing assessment. Icarus, 2009, 199, 303-309.	2.5	12
41	The periglacial landscape at the Phoenix landing site. Journal of Geophysical Research, 2009, 114, .	3.3	61
42	Results from the Mars Phoenix Lander Robotic Arm experiment. Journal of Geophysical Research, 2009, 114, .	3.3	97
43	Ground ice at the Phoenix Landing Site: Stability state and origin. Journal of Geophysical Research, 2009, 114, .	3.3	167
44	Ground ice at the Phoenix Landing Site: Stability state and origin. , 2009, .		1
45	Laboratory characterization of the structural properties controlling dynamical gas transport in Mars-analog soils. Icarus, 2008, 197, 606-620.	2.5	54
46	Sizeâ€frequency distributions of rocks on the northern plains of Mars with special reference to Phoenix landing surfaces. Journal of Geophysical Research, 2008, 113, .	3.3	70
47	A prelanding assessment of the ice table depth and ground ice characteristics in Martian permafrost at the Phoenix landing site. Journal of Geophysical Research, 2008, 113, .	3.3	45
48	Effects of soil heterogeneity on martian ground-ice stability and orbital estimates of ice table depth. Icarus, 2006, 185, 358-369.	2.5	33
49	Comparative morphometric analysis suggests ice-cored pingo-shaped landforms on the dwarf planet Ceres. Geology, 0, , .	4.4	0