

Hanna G Sizemore

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5573981/publications.pdf>

Version: 2024-02-01

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	Extensive water ice within Ceres TM aqueously altered regolith: Evidence from nuclear spectroscopy. <i>Science</i> , 2017, 355, 55-59.	12.6	169
2	Ground ice at the Phoenix Landing Site: Stability state and origin. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	167
3	The geomorphology of Ceres. <i>Science</i> , 2016, 353, .	12.6	109
4	Results from the Mars Phoenix Lander Robotic Arm experiment. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	97
5	Geomorphological evidence for ground ice on dwarf planet Ceres. <i>Nature Geoscience</i> , 2017, 10, 338-343.	12.9	83
6	Size-frequency distributions of rocks on the northern plains of Mars with special reference to Phoenix landing surfaces. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	70
7	The periglacial landscape at the Phoenix landing site. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	61
8	A Possible Brine Reservoir Beneath Occator Crater: Thermal and Compositional Evolution and Formation of the Cerealia Dome and Vinalia Faculae. <i>Icarus</i> , 2019, 320, 119-135.	2.5	55
9	Laboratory characterization of the structural properties controlling dynamical gas transport in Mars-analog soils. <i>Icarus</i> , 2008, 197, 606-620.	2.5	54
10	Availability of subsurface water-ice resources in the northern mid-latitudes of Mars. <i>Nature Astronomy</i> , 2021, 5, 230-236.	10.1	53
11	Initiation and growth of martian ice lenses. <i>Icarus</i> , 2015, 251, 191-210.	2.5	52
12	Impact-driven mobilization of deep crustal brines on dwarf planet Ceres. <i>Nature Astronomy</i> , 2020, 4, 741-747.	10.1	50
13	Pitted terrains on (1) Ceres and implications for shallow subsurface volatile distribution. <i>Geophysical Research Letters</i> , 2017, 44, 6570-6578.	4.0	48
14	Conditions for the Long-term Preservation of a Deep Brine Reservoir in Ceres. <i>Geophysical Research Letters</i> , 2019, 46, 1963-1972.	4.0	46
15	A prelanding assessment of the ice table depth and ground ice characteristics in Martian permafrost at the Phoenix landing site. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	45
16	The varied sources of faculae-forming brines in Ceres TM Occator crater emplaced via hydrothermal brine effusion. <i>Nature Communications</i> , 2020, 11, 3680.	12.8	41
17	Cryovolcanic rates on Ceres revealed by topography. <i>Nature Astronomy</i> , 2018, 2, 946-950.	10.1	38
18	Effects of soil heterogeneity on martian ground-ice stability and orbital estimates of ice table depth. <i>Icarus</i> , 2006, 185, 358-369.	2.5	33

#	ARTICLE	IF	CITATIONS
19	A Global Inventory of Ice-Related Morphological Features on Dwarf Planet Ceres: Implications for the Evolution and Current State of the Cryosphere. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1650-1689.	3.6	33
20	Evidence of non-uniform crust of Ceres from Dawn's high-resolution gravity data. <i>Nature Astronomy</i> , 2020, 4, 748-755.	10.1	30
21	The central pit and dome at Cerealia Facula bright deposit and floor deposits in Occator crater, Ceres: Morphology, comparisons and formation. <i>Icarus</i> , 2019, 320, 159-187.	2.5	28
22	Geologic mapping of the Urvara and Yalode Quadrangles of Ceres. <i>Icarus</i> , 2018, 316, 167-190.	2.5	23
23	In situ analysis of ice table depth variations in the vicinity of small rocks at the Phoenix landing site. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	22
24	The history of ground ice at Jezero Crater Mars and other past, present, and future landing sites. <i>Icarus</i> , 2022, 371, 114667.	2.5	22
25	Water Vapor Contribution to Ceres' Exosphere From Observed Surface Ice and Postulated Ice-Exposing Impacts. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 61-75.	3.6	20
26	Fluidized Appearing Ejecta on Ceres: Implications for the Mechanical Properties, Frictional Properties, and Composition of its Shallow Subsurface. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1819-1839.	3.6	19
27	Impact heat driven volatile redistribution at Occator crater on Ceres as a comparative planetary process. <i>Nature Communications</i> , 2020, 11, 3679.	12.8	19
28	Dome formation on Ceres by solid-state flow analogous to terrestrial salt tectonics. <i>Nature Geoscience</i> , 2019, 12, 797-801.	12.9	16
29	Landslides on Ceres: Inferences Into Ice Content and Layering in the Upper Crust. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1512-1524.	3.6	16
30	Ceres Crater Degradation Inferred From Concentric Fracturing. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1188-1203.	3.6	15
31	Post-impact cryo-hydrologic formation of small mounds and hills in Ceres's Occator crater. <i>Nature Geoscience</i> , 2020, 13, 605-610.	12.9	15
32	Landslides on Ceres: Diversity and Geologic Context. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 3329-3343.	3.6	14
33	Mission Architecture Using the SpaceX Starship Vehicle to Enable a Sustained Human Presence on Mars. <i>New Space</i> , 2022, 10, 259-273.	0.8	14
34	Floor-Fractured Craters on Ceres and Implications for Interior Processes. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 3188-3204.	3.6	13
35	Ice table depth variability near small rocks at the Phoenix landing site, Mars: A pre-landing assessment. <i>Icarus</i> , 2009, 199, 303-309.	2.5	12
36	Seasonal defrosting of the Phoenix landing site. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	8

#	ARTICLE	IF	CITATIONS
37	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
38	Solar-System-Wide Significance of Mars Polar Science. , 2021, 53, .		2
39	Mid-Latitude Ice on Mars: A Science Target for Planetary Climate Histories and an Exploration Target for In Situ Resources. , 2021, 53, .		2
40	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
41	Replenishment of Near-Surface Water Ice by Impacts Into Ceres' Volatile-Rich Crust: Observations by Dawn's Gamma Ray and Neutron Detector. Geophysical Research Letters, 2021, 48, e2021GL094223.	4.0	2
42	Ceres' Broad-Scale Surface Geomorphology Largely Due To Asymmetric Internal Convection. AGU Advances, 2022, 3, .	5.4	2
43	Introduction to the Special Issue: Ice on Ceres. Journal of Geophysical Research E: Planets, 2019, 124, 1639-1649.	3.6	1
44	GANGOTRI mission concept on the glacial key to the Amazonian climate of Mars. , 2021, 53, .		1
45	Ground ice at the Phoenix Landing Site: Stability state and origin. , 2009, .		1
46	HIDDEN ICE: USING AGGREGATE SPATIAL AND PHYSICAL PROPERTIES OF LIKELY GROUND ICE DRIVEN FLOWS ON CERES TO BETTER UNDERSTAND ITS SURFACE COMPOSITION. , 2016, , .		1
47	NMR Characterization of unfrozen brine vein distribution and structure in model packed beds. Cold Regions Science and Technology, 2022, 199, 103572.	3.5	1
48	White Paper Summary of the Final Report from the Ice and Climate Evolution Science Analysis group (ICE-SAG). , 2021, 53, .		0
49	Comparative morphometric analysis suggests ice-cored pingo-shaped landforms on the dwarf planet Ceres. Geology, 0, , .	4.4	0