

Gareth A Morgan

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

729
citations

623734

14
h-index

713466

21
g-index

26
all docs

26
docs citations

26
times ranked

801
citing authors

#	ARTICLE	IF	CITATIONS
1	Selection of the InSight Landing Site. <i>Space Science Reviews</i> , 2017, 211, 5-95.	8.1	150
2	Lineated valley fill (LVF) and lobate debris aprons (LDA) in the Deuteronilus Mensae northern dichotomy boundary region, Mars: Constraints on the extent, age and episodicity of Amazonian glacial events. <i>Icarus</i> , 2009, 202, 22-38.	2.5	92
3	Availability of subsurface water-ice resources in the northern mid-latitudes of Mars. <i>Nature Astronomy</i> , 2021, 5, 230-236.	10.1	53
4	Roughness and near-surface density of Mars from SHARAD radar echoes. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 436-450.	3.6	49
5	Sinton crater, Mars: Evidence for impact into a plateau icefield and melting to produce valley networks at the Hesperian-Amazonian boundary. <i>Icarus</i> , 2009, 202, 39-59.	2.5	43
6	Gully formation on Mars: Two recent phases of formation suggested by links between morphology, slope orientation and insolation history. <i>Icarus</i> , 2010, 208, 658-666.	2.5	43
7	Fine-scale Layering of Mars Polar Deposits and Signatures of Ice Content in Nonpolar Material From Multiband SHARAD Data Processing. <i>Geophysical Research Letters</i> , 2018, 45, 1759-1766.	4.0	39
8	Improved discrimination of volcanic complexes, tectonic features, and regolith properties in Mare Serenitatis from Earth-based radar mapping. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 313-330.	3.6	38
9	Evidence for the episodic erosion of the Medusae Fossae Formation preserved within the youngest volcanic province on Mars. <i>Geophysical Research Letters</i> , 2015, 42, 7336-7342.	4.0	34
10	Widespread Exposures of Extensive Clean Shallow Ice in the Midlatitudes of Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006617.	3.6	29
11	Pyroclastic flow deposits on Venus as indicators of renewed magmatic activity. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 1580-1596.	3.6	28
12	Preservation of Late Amazonian Mars ice and water-related deposits in a unique crater environment in Noachis Terra: Age relationships between lobate debris tongues and gullies. <i>Icarus</i> , 2011, 211, 347-365.	2.5	21
13	Evidence for crater ejecta on Venus tessera terrain from Earth-based radar images. <i>Icarus</i> , 2015, 250, 123-130.	2.5	21
14	Calibration of Mars Reconnaissance Orbiter Shallow Radar (SHARAD) data for subsurface probing and surface reflectivity studies. <i>Icarus</i> , 2021, 360, 114358.	2.5	18
15	Dielectric Properties of the Medusae Fossae Formation and Implications for Ice Content. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006601.	3.6	15
16	A subsurface depocenter in the South Polar Layered Deposits of Mars. <i>Geophysical Research Letters</i> , 2017, 44, 8188-8195.	4.0	14
17	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
18	Radar sounder evidence of thick, porous sediments in Meridiani Planum and implications for ice-filled deposits on Mars. <i>Geophysical Research Letters</i> , 2017, 44, 9208-9215.	4.0	12

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19	New Insights Into Subsurface Stratigraphy Northwest of Ascræus Mons, Mars, Using the SHARAD and MARSIS Radar Sounders. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	8
20	Evidence for impact melt sheets in lunar highland smooth plains and implications for polar landing sites. <i>Icarus</i> , 2018, 314, 294-298.	2.5	3
21	Mid-Latitude Ice on Mars: A Science Target for Planetary Climate Histories and an Exploration Target for In Situ Resources. , 2021, 53, .		2
22	The Mars Orbiter for Resources, Ices, and Environments (MORIE) Science Goals and Instrument Trades in Radar, Imaging, and Spectroscopy. <i>Planetary Science Journal</i> , 2021, 2, 76.	3.6	2
23	Developing Active Source Seismology for Planetary Science. , 2021, 53, .		1
24	White Paper Summary of the Final Report from the Ice and Climate Evolution Science Analysis group (ICE-SAG). , 2021, 53, .		0