

Timothy A Goudge

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,802
citations

331670

21
h-index

276875

41
g-index

47
all docs

47
docs citations

47
times ranked

1401
citing authors

#	ARTICLE	IF	CITATIONS
1	Flood Volcanism in the Northern High Latitudes of Mercury Revealed by MESSENGER. <i>Science</i> , 2011, 333, 1853-1856.	12.6	225
2	Assessing the mineralogy of the watershed and fan deposits of the Jezero crater paleolake system, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 775-808.	3.6	193
3	Sedimentological evidence for a deltaic origin of the western fan deposit in Jezero crater, Mars and implications for future exploration. <i>Earth and Planetary Science Letters</i> , 2017, 458, 357-365.	4.4	128
4	An analysis of open-basin lake deposits on Mars: Evidence for the nature of associated lacustrine deposits and post-lacustrine modification processes. <i>Icarus</i> , 2012, 219, 211-229.	2.5	105
5	Classification and analysis of candidate impact crater-hosted closed-basin lakes on Mars. <i>Icarus</i> , 2015, 260, 346-367.	2.5	91
6	Stratigraphy and paleohydrology of delta channel deposits, Jezero crater, Mars. <i>Icarus</i> , 2018, 301, 58-75.	2.5	83
7	The low-iron, reduced surface of Mercury as seen in spectral reflectance by MESSENGER. <i>Icarus</i> , 2014, 228, 364-374.	2.5	82
8	Global inventory and characterization of pyroclastic deposits on Mercury: New insights into pyroclastic activity from MESSENGER orbital data. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 635-658.	3.6	79
9	Olivine-Carbonate Mineralogy of the Jezero Crater Region. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006011.	3.6	79
10	Insights into surface runoff on early Mars from paleolake basin morphology and stratigraphy. <i>Geology</i> , 2016, 44, 419-422.	4.4	72
11	Evidence from MESSENGER for sulfur- and carbon-driven explosive volcanism on Mercury. <i>Geophysical Research Letters</i> , 2016, 43, 3653-3661.	4.0	57
12	Orbital Identification of Hydrated Silica in Jezero Crater, Mars. <i>Geophysical Research Letters</i> , 2019, 46, 12771-12782.	4.0	53
13	Bulk mineralogy of the NE Syrtis and Jezero crater regions of Mars derived through thermal infrared spectral analyses. <i>Icarus</i> , 2018, 301, 76-96.	2.5	51
14	Constraints on the history of open-basin lakes on Mars from the composition and timing of volcanic resurfacing. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	46
15	Fluvial stratigraphy of valley fills at Aeolis Dorsa, Mars: Evidence for base-level fluctuations controlled by a downstream water body. <i>Bulletin of the Geological Society of America</i> , 2018, 130, 484-498.	3.3	44
16	Crater Statistics on the Dark-Toned, Mafic Floor Unit in Jezero Crater, Mars. <i>Geophysical Research Letters</i> , 2019, 46, 2408-2416.	4.0	40
17	Recent climate cycles on Mars: Stratigraphic relationships between multiple generations of gullies and the latitude dependent mantle. <i>Icarus</i> , 2015, 252, 83-94.	2.5	36
18	Extension and contraction within volcanically buried impact craters and basins on Mercury. <i>Geology</i> , 2012, 40, 1123-1126.	4.4	34

#	ARTICLE	IF	CITATIONS
19	Integrating CRISM and TES hyperspectral data to characterize a halloysite-bearing deposit in Kashira crater, Mars. <i>Icarus</i> , 2015, 250, 165-187.	2.5	27
20	Incision of Licus Vallis, Mars, From Multiple Lake Overflow Floods. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 405-420.	3.6	25
21	Deltaic deposits indicative of a paleo-coastline at Aeolis Dorsa, Mars. <i>Icarus</i> , 2019, 317, 442-453.	2.5	24
22	The anatomy of exhumed river-channel belts: Bedform to belt-scale river kinematics of the Ruby Ranch Member, Cretaceous Cedar Mountain Formation, Utah, USA. <i>Sedimentology</i> , 2020, 67, 3655-3682.	3.1	23
23	Slope, elevation, and thermal inertia trends of martian recurring slope lineae initiation and termination points: Multiple possible processes occurring on coarse, sandy slopes. <i>Icarus</i> , 2020, 338, 113536.	2.5	21
24	Incision of paleolake outlet canyons on Mars from overflow flooding. <i>Geology</i> , 2019, 47, 7-10.	4.4	20
25	Precipitation and aridity constraints from paleolakes on early Mars. <i>Geology</i> , 2020, 48, 1189-1193.	4.4	20
26	The importance of lake breach floods for valley incision on early Mars. <i>Nature</i> , 2021, 597, 645-649.	27.8	19
27	A 40,000 yr record of clay mineralogy at Lake Towuti, Indonesia: Paleoclimate reconstruction from reflectance spectroscopy and perspectives on paleolakes on Mars. <i>Bulletin of the Geological Society of America</i> , 2017, 129, 806-819.	3.3	16
28	Candidate volcanic and impact-induced ice depressions on Mars. <i>Icarus</i> , 2017, 285, 185-194.	2.5	14
29	Spectral and stratigraphic mapping of hydrated minerals associated with interior layered deposits near the southern wall of Melas Chasma, Mars. <i>Icarus</i> , 2018, 302, 62-79.	2.5	14
30	Surface boulder banding indicates Martian debris-covered glaciers formed over multiple glaciations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	13
31	Time will tell: temporal evolution of Martian gullies and palaeoclimatic implications. <i>Geological Society Special Publication</i> , 2019, 467, 165-186.	1.3	12
32	High-Resolution Thermal Environment of Recurring Slope Lineae in Palikir Crater, Mars, and Its Implications for Volatiles. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 2852-2862.	3.6	10
33	Global investigation of martian sedimentary fan features: Using stratigraphic analysis to study depositional environment. <i>Icarus</i> , 2022, 372, 114718.	2.5	8
34	Testing the deltaic origin of fan deposits at Bradbury Crater, Mars. <i>Icarus</i> , 2019, 319, 363-366.	2.5	6
35	Modeling the Hydrodynamics, Sediment Transport, and Valley Incision of Outlet-Forming Floods From Martian Crater Lakes. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006979.	3.6	6
36	Characterizing clay mineralogy in Lake Towuti, Indonesia, with reflectance spectroscopy. <i>Journal of Paleolimnology</i> , 2015, 54, 253-261.	1.6	5

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37	Limits on Runoff Episode Duration for Early Mars: Integrating Lake Hydrology and Climate Models. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093523.	4.0	5
38	Constraining the formation of paleolake inlet valleys across crater rims. <i>Icarus</i> , 2022, 378, 114945.	2.5	5
39	Quantifying Coastal Fluvial Morphodynamics Over the Last 100 Years on the Lower Rio Grande, USA and Mexico. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005443.	2.8	4
40	A multi-proxy assessment of terrace formation in the lower Trinity River valley, Texas. <i>Earth Surface Dynamics</i> , 2022, 10, 635-651.	2.4	3
41	Consequences of Proposed Shoreline Deformation Scenarios for Jezero Crater, Mars. <i>Planetary Science Journal</i> , 2021, 2, 128.	3.6	2
42	The Effect of Remote Sensing Resolution Limits on Aeolian Sandstone Measurements and the Reconstruction of Ancient Dune Fields on Mars: Numerical Experiment Using the Page Sandstone, Earth. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 3244-3256.	3.6	0