

Robert A Craddock

List of Publications by Year in descending order

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32
papers

2,667
citations

304743

22
h-index

414414

32
g-index

33
all docs

33
docs citations

33
times ranked

1844
citing authors

#	ARTICLE	IF	CITATIONS
1	The case for rainfall on a warm, wet early Mars. <i>Journal of Geophysical Research</i> , 2002, 107, 21-1-21-36.	3.3	480
2	An intense terminal epoch of widespread fluvial activity on early Mars: 2. Increased runoff and paleolake development. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	334
3	Geomorphic evolution of the Martian highlands through ancient fluvial processes. <i>Journal of Geophysical Research</i> , 1993, 98, 3453-3468.	3.3	221
4	Crater morphometry and modification in the Sinus Sabaeus and Margaritifer Sinus regions of Mars. <i>Journal of Geophysical Research</i> , 1997, 102, 13321-13340.	3.3	192
5	A Large Paleolake Basin at the Head of Ma'adim Vallis, Mars. <i>Science</i> , 2002, 296, 2209-2212.	12.6	167
6	Are Phobos and Deimos the result of a giant impact?. <i>Icarus</i> , 2011, 211, 1150-1161.	2.5	154
7	Interior channels in Martian valley networks: Discharge and runoff production. <i>Geology</i> , 2005, 33, 489.	4.4	136
8	Crater degradation in the Martian highlands: Morphometric analysis of the Sinus Sabaeus region and simulation modeling suggest fluvial processes. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	125
9	The geological and climatological case for a warmer and wetter early Mars. <i>Nature Geoscience</i> , 2018, 11, 230-237.	12.9	116
10	Minimum estimates of the amount and timing of gases released into the martian atmosphere from volcanic eruptions. <i>Icarus</i> , 2009, 204, 512-526.	2.5	95
11	Simulated degradation of lunar impact craters and a new method for age dating farside mare deposits. <i>Journal of Geophysical Research</i> , 2000, 105, 20387-20401.	3.3	81
12	Resurfacing of the Martian Highlands in the Amenthes and Tyrrhena region. <i>Journal of Geophysical Research</i> , 1990, 95, 14265-14278.	3.3	65
13	Topographic influences on development of Martian valley networks. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	57
14	Thermal conductivity measurements of particulate materials: 3. Natural samples and mixtures of particle sizes. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	45
15	Measuring impact crater depth throughout the solar system. <i>Meteoritics and Planetary Science</i> , 2018, 53, 583-637.	1.6	41
16	Evidence for geologically recent explosive volcanism in Elysium Planitia, Mars. <i>Icarus</i> , 2021, 365, 114499.	2.5	39
17	Climate Simulations of Early Mars With Estimated Precipitation, Runoff, and Erosion Rates. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006160.	3.6	36
18	Key Science Questions from the Second Conference on Early Mars: Geologic, Hydrologic, and Climatic Evolution and the Implications for Life. <i>Astrobiology</i> , 2005, 5, 663-689.	3.0	30

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19	Geology of central Chryse Planitia and the Viking 1 landing site: Implications for the Mars Pathfinder mission. <i>Journal of Geophysical Research</i> , 1997, 102, 4161-4183.	3.3	28
20	Characterization of fluvial activity in Parana Valles using different age-dating techniques. <i>Icarus</i> , 2010, 207, 686-698.	2.5	26
21	Aeolian processes on the terrestrial planets. <i>Progress in Physical Geography</i> , 2012, 36, 110-124.	3.2	24
22	The changing nature of rainfall during the early history of Mars. <i>Icarus</i> , 2017, 293, 172-179.	2.5	24
23	Age relations of Martian highland drainage basins. <i>Journal of Geophysical Research</i> , 1995, 100, 11765.	3.3	19
24	Drainage network development in the Keanakākoā tephra, Kālauea Volcano, Hawai'i: Implications for fluvial erosion and valley network formation on early Mars. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	18
25	Origin and development of theater-headed valleys in the Atacama Desert, northern Chile: Morphological analogs to martian valley networks. <i>Icarus</i> , 2014, 243, 296-310.	2.5	17
26	Characteristics of terrestrial basaltic rock populations: Implications for Mars lander and rover science and safety. <i>Icarus</i> , 2016, 274, 50-72.	2.5	17
27	Topographic data reveal a buried fluvial landscape in the Simpson Desert, Australia. <i>Australian Journal of Earth Sciences</i> , 2010, 57, 141-149.	1.0	13
28	Temporal observations of a linear sand dune in the Simpson Desert, central Australia: Testing models for dune formation on planetary surfaces. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 1736-1750.	3.6	13
29	An Assessment of Regional Variations in Martian Modified Impact Crater Morphology. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 763-779.	3.6	9
30	Assessing the Accuracy of Paleodischarge Estimates for Rivers on Mars. <i>Geophysical Research Letters</i> , 2019, 46, 11738-11746.	4.0	8
31	Age dates of valley network drainage basins and subbasins within Sabae and Arabia Terrae, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1302-1310.	3.6	5
32	Depositional processes of alluvial fans along the Hilina Pali fault scarp, Island of Hawaii. <i>Geomorphology</i> , 2017, 296, 104-112.	2.6	2