

William K Hartmann

List of Publications by Year in descending order

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66
papers

6,493
citations

87888

38
h-index

110387

64
g-index

67
all docs

67
docs citations

67
times ranked

3112
citing authors

#	ARTICLE	IF	CITATIONS
1	Cratering Chronology and the Evolution of Mars. <i>Space Science Reviews</i> , 2001, 96, 165-194.	8.1	835
2	Satellite-sized planetesimals and lunar origin. <i>Icarus</i> , 1975, 24, 504-515.	2.5	680
3	Martian cratering 8: Isochron refinement and the chronology of Mars. <i>Icarus</i> , 2005, 174, 294-320.	2.5	507
4	Meteorite Delivery via Yarkovsky Orbital Drift. <i>Icarus</i> , 1998, 132, 378-387.	2.5	279
5	Terrestrial, lunar, and interplanetary rock fragmentation. <i>Icarus</i> , 1969, 10, 201-213.	2.5	275
6	Voluminous volcanism on early Mars revealed in Valles Marineris. <i>Nature</i> , 1999, 397, 584-586.	27.8	247
7	Evidence for recent volcanism on Mars from crater counts. <i>Nature</i> , 1999, 397, 586-589.	27.8	179
8	Does crater "saturation equilibrium" occur in the solar system?. <i>Icarus</i> , 1984, 60, 56-74.	2.5	151
9	Recent Fluvial, Volcanic, and Tectonic Activity on the Cerberus Plains of Mars. <i>Icarus</i> , 2002, 159, 1-17.	2.5	151
10	Martian Cratering, 4, Mariner 9 initial analysis of cratering chronology. <i>Journal of Geophysical Research</i> , 1973, 78, 4096-4116.	3.3	146
11	Elysium Planitia lava flows: Crater count chronology and geological implications. <i>Journal of Geophysical Research</i> , 2000, 105, 15011-15025.	3.3	145
12	Very low strengths of interplanetary meteoroids and small asteroids. <i>Meteoritics and Planetary Science</i> , 2011, 46, 1525-1550.	1.6	145
13	Cratering Chronology and the Evolution of Mars. <i>Space Sciences Series of ISSI</i> , 2001, , 165-194.	0.0	143
14	Early lunar cratering. <i>Icarus</i> , 1966, 5, 406-418.	2.5	135
15	Martian cratering VI: Crater count isochrons and evidence for recent volcanism from Mars Global Surveyor. <i>Meteoritics and Planetary Science</i> , 1999, 34, 167-177.	1.6	131
16	Relative crater production rates on planets. <i>Icarus</i> , 1977, 31, 260-276.	2.5	124
17	Lunar "cataclysm": A misconception?. <i>Icarus</i> , 1975, 24, 181-187.	2.5	119
18	Remote comets and related bodies: VJHK colorimetry and surface materials. <i>Icarus</i> , 1982, 52, 377-408.	2.5	114

#	ARTICLE	IF	CITATIONS
19	Martian Cratering. <i>Icarus</i> , 1966, 5, 565-576.	2.5	109
20	Martian flow features, moraine-like ridges, and gullies: Terrestrial analogs and interrelationships. <i>Icarus</i> , 2005, 174, 321-335.	2.5	97
21	Lunar cratering chronology. <i>Icarus</i> , 1970, 13, 299-301.	2.5	93
22	Bombardment History of the Saturn System. <i>Journal of Geophysical Research</i> , 1988, 93, 13776-13804.	3.3	93
23	Megaregolith evolution and cratering cataclysm models—Lunar cataclysm as a misconception (28) Tj ETQq1 1 0.784314 rgBT / Over	1.6	92
24	Origin and history of ureilitic material in the solar system: The view from asteroid 2008 TC ₃ and the Almahata Sitta meteorite. <i>Meteoritics and Planetary Science</i> , 2015, 50, 782-809.	1.6	92
25	Terrestrial and lunar flux of large meteorites in the last two billion years. <i>Icarus</i> , 1965, 4, 157-165.	2.5	88
26	Martian cratering III: Theory of crater obliteration. <i>Icarus</i> , 1971, 15, 410-428.	2.5	87
27	Ancient lunar mega-regolith and subsurface structure. <i>Icarus</i> , 1973, 18, 634-636.	2.5	81
28	Possible long-term decline in impact rates. <i>Icarus</i> , 2007, 186, 1-10.	2.5	75
29	The role of arcuate ridges and gullies in the degradation of craters in the Newton Basin region of Mars. <i>Icarus</i> , 2005, 178, 465-486.	2.5	68
30	Possible long-term decline in impact rates. <i>Icarus</i> , 2007, 186, 11-23.	2.5	68
31	Bolides in the present and past martian atmosphere and effects on cratering processes. <i>Meteoritics and Planetary Science</i> , 2003, 38, 905-925.	1.6	67
32	Paleocratering of the Moon: Review of post-Apollo data. <i>Astrophysics and Space Science</i> , 1972, 17, 48-64.	1.4	63
33	Planetary cratering 2: Studies of saturation equilibrium. <i>Meteoritics and Planetary Science</i> , 1997, 32, 109-121.	1.6	62
34	Martian cratering 9: Toward resolution of the controversy about small craters. <i>Icarus</i> , 2007, 189, 274-278.	2.5	61
35	Do young martian ray craters have ages consistent with the crater count system?. <i>Icarus</i> , 2010, 208, 621-635.	2.5	54
36	Planetary cratering 1. The question of multiple impactor populations: Lunar evidence. <i>Meteoritics</i> , 1995, 30, 451-467.	1.4	45

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37	Preliminary note on lunar cratering rates and absolute time-scales. <i>Icarus</i> , 1970, 12, 131-133.	2.5	41
38	History of the Terminal Cataclysm Paradigm: Epistemology of a Planetary Bombardment That Never (?) Happened. <i>Geosciences (Switzerland)</i> , 2019, 9, 285.	2.2	40
39	Reviewing the Yarkovsky effect: New light on the delivery of stone and iron meteorites from the asteroid belt. <i>Meteoritics and Planetary Science</i> , 1999, 34, A161.	1.6	38
40	Secular changes in meteoritic flux through the history of the solar system. <i>Icarus</i> , 1965, 4, 207-213.	2.5	37
41	Utilization of the THEMIS visible and infrared imaging data for crater population studies of the Meridiani Planum landing site. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	35
42	Comprehensive analysis of glaciated martian crater Greg. <i>Icarus</i> , 2014, 228, 96-120.	2.5	35
43	Confirmation and utilization of the "production function" size-frequency distributions of Martian impact craters. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	34
44	Martian Seeps and their Relation to Youthful Geothermal Activity. <i>Space Science Reviews</i> , 2001, 96, 405-410.	8.1	30
45	Martian cratering V: Toward an Empirical Martian Chronology, and Its Implications. <i>Geophysical Research Letters</i> , 1978, 5, 450-452.	4.0	29
46	A satellite-asteroid mystery and a possible early flux of scattered C-class asteroids. <i>Icarus</i> , 1987, 71, 57-68.	2.5	28
47	Crater clusters on Mars: Shedding light on martian ejecta launch conditions. <i>Icarus</i> , 2007, 190, 50-73.	2.5	28
48	Additional evidence about an early intense flux of C asteroids and the origin of Phobos. <i>Icarus</i> , 1990, 87, 236-240.	2.5	25
49	Nature of the Martian uplands: Effect on Martian meteorite age distribution and secondary cratering. <i>Meteoritics and Planetary Science</i> , 2006, 41, 1453-1467.	1.6	25
50	Martian cratering II: Asteroid impact history. <i>Icarus</i> , 1971, 15, 396-409.	2.5	24
51	Martian Cratering 10. Progress in use of crater counts to interpret geological processes: Examples from two debris aprons. <i>Earth and Planetary Science Letters</i> , 2010, 294, 230-237.	4.4	20
52	Comment on "Chelyabinsk, Zond <sc>IV</sc>, and a possible first-century fireball of historical importance" <i>Meteoritics and Planetary Science</i> , 2018, 53, 2243-2246.	1.6	20
53	The giant impact hypothesis: past, present (and future?). <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130249.	3.4	19
54	Young Martian crater Gratteri and its secondary craters. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1118-1140.	3.6	18

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55	â€œPathologicalâ€•Martian craters: Evidence for a transient obliteration event?. Meteoritics and Planetary Science, 1999, 34, 159-165.	1.6	14
56	Migrations in Late Anasazi Prehistory: â€œEyewitnessâ€•Testimony. Kiva, The, 2001, 66, 375-385.	0.5	12
57	Chelyabinsk, Zond IV, and a possible firstâ€•century fireball of historical importance. Meteoritics and Planetary Science, 2015, 50, 368-381.	1.6	10
58	Martian cratering 12. Utilizing primary crater clusters to study crater populations and meteoroid properties. Meteoritics and Planetary Science, 2018, 53, 672-686.	1.6	8
59	Effects of early intense bombardment on megaregolith evolution and on lunar (and planetary) surface samples. Meteoritics and Planetary Science, 2020, 55, 2472-2492.	1.6	7
60	Prehistoric Trail Systems and Related Features on the Slopes of Tumamoc Hill. Kiva, The, 1979, 45, 39-69.	0.5	6
61	Dynamical sequestration of the Moon-forming impactor in co-orbital resonance with Earth. Icarus, 2016, 275, 239-248.	2.5	5
62	Introduction: A New Chapter in Mars Research. Space Science Reviews, 2001, 96, 3-6.	8.1	2
63	Mars Primordial Crust: Unique Sites for Investigating Proto-biologic Properties. Origins of Life and Evolution of Biospheres, 2007, 36, 533-540.	1.9	1
64	First Indications of Geological Activity on Triton. Science, 1999, 286, 1297-1297.	12.6	1
65	Coronado-era Place-names, I. Marcos de Niza in Sonora, and the Occurrence of Yaqui Names in hisRelaciÃ³n. Kiva, The, 2015, 80, 350-365.	0.5	0
66	Coronado-era Place-names, II. â€œChichilticaleâ€•and the Origin of the Name of the â€œChiricahuaâ€•Mountains. Kiva, The, 2016, 82, 71-91.	0.5	0