Stephanie C Werner

List of Publications by Year
in descending order

73 papers	5,222 citations	109321 35 h-index	114465 63 g-index
73 all docs	73 docs citations	73 times ranked	4760 citing authors

#	Article	IF	Citations
1	The PLATO 2.0 mission. Experimental Astronomy, 2014, 38, 249-330.	3.7	912
2	Recent and episodic volcanic and glacial activity on Mars revealed by the High Resolution Stereo Camera. Nature, 2004, 432, 971-979.	27.8	433
3	Habitability on Early Mars and the Search for Biosignatures with the ExoMars Rover. Astrobiology, 2017, 17, 471-510.	3.0	371
4	Tropical to mid-latitude snow and ice accumulation, flow and glaciation on Mars. Nature, 2005, 434, 346-351.	27.8	352
5	A chemical survey of exoplanets with ARIEL. Experimental Astronomy, 2018, 46, 135-209.	3.7	249
6	The global martian volcanic evolutionary history. Icarus, 2009, 201, 44-68.	2.5	243
7	Evidence from the Mars Express High Resolution Stereo Camera for a frozen sea close to Mars' equator. Nature, 2005, 434, 352-356.	27.8	201
8	The African Plate: A history of oceanic crust accretion and subduction since the Jurassic. Tectonophysics, 2013, 604, 4-25.	2.2	164
9	Fluid lava flows in Gusev crater, Mars. Journal of Geophysical Research, 2005, 110, .	3.3	153
10	The early martian evolutionâ€"Constraints from basin formation ages. Icarus, 2008, 195, 45-60.	2.5	145
11	Redefinition of the crater-density and absolute-age boundaries for the chronostratigraphic system of Mars. Icarus, 2011, 215, 603-607.	2.5	127
12	Continental crust beneath southeast Iceland. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1818-27.	7.1	102
13	Chapter 3 Circum-Arctic mapping project: new magnetic and gravity anomaly maps of the Arctic. Geological Society Memoir, 2011, 35, 39-48.	1.7	92
14	Onset of Giant Planet Migration before 4480 Million Years Ago. Astrophysical Journal, 2019, 881, 44.	4.5	82
15	Discovery of a flank caldera and very young glacial activity at Hecates Tholus, Mars. Nature, 2005, 434, 356-361.	27.8	80
16	ANALYSIS OF TERRESTRIAL PLANET FORMATION BY THE GRAND TACK MODEL: SYSTEM ARCHITECTURE AND TACK LOCATION. Astrophysical Journal, 2016, 821, 75.	4.5	73
17	The potential science and engineering value of samples delivered to Earth by Mars sample return. Meteoritics and Planetary Science, 2019, 54, S3.	1.6	73
18	The sustainability of habitability on terrestrial planets: Insights, questions, and needed measurements from Mars for understanding the evolution of Earthâ€like worlds. Journal of Geophysical Research E: Planets, 2016, 121, 1927-1961.	3.6	72

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19	The Source Crater of Martian Shergottite Meteorites. Science, 2014, 343, 1343-1346.	12.6	70
20	4D Arctic: A Glimpse into the Structure and Evolution of the Arctic in the Light of New Geophysical Maps, Plate Tectonics and Tomographic Models. Surveys in Geophysics, 2014, 35, 1095-1122.	4.6	70
21	Theoretical analysis of secondary cratering on Mars and an image-based study on the Cerberus Plains. Icarus, 2009, 200, 406-417.	2.5	69
22	The Near-Earth Asteroid Sizeâ€“Frequency Distribution: A Snapshot of the Lunar Impactor Sizeâ€“Frequency Distribution. Icarus, 2002, 156, 287-290.	2.5	66
23	Episodes of floods in Mangala Valles, Mars, from the analysis of HRSC, MOC and THEMIS images. Planetary and Space Science, 2009, 57, 917-943.	1.7	64
24	Sizeâ€frequency distribution of crater populations in equilibrium on the Moon. Journal of Geophysical Research E: Planets, 2015, 120, 2277-2292.	3.6	62
25	Deep versus shallow origin of gravity anomalies, topography and volcanism on Earth, Venus and Mars. Icarus, 2010, 207, 564-577.	2.5	60
26	High heat flux on ancient Mars: Evidence from rift flank uplift at Coracis Fossae. Geophysical Research Letters, 2005, 32, .	4.0	59
27	Do young martian ray craters have ages consistent with the crater count system?. Icarus, 2010, 208, 621-635.	2.5	54
28	The effect of target properties on transient crater scaling for simple craters. Journal of Geophysical Research E: Planets, 2017, 122, 1704-1726.	3.6	53
29	Geologically recent tectonic, volcanic and fluvial activity on the eastern flank of the Olympus Mons volcano, Mars. Geophysical Research Letters, 2006, 33, .	4.0	47
30	Tyrrhena Patera: Geologic history derived from Mars Express High Resolution Stereo Camera. Journal of Geophysical Research, 2008, 113, .	3.3	42
31	The Lunar rayed-crater population â€" Characteristics of the spatial distribution and ray retention. Earth and Planetary Science Letters, 2010, 295, 147-158.	4.4	41
32	Acheron Fossae, Mars: Tectonic rifting, volcanism, and implications for lithospheric thickness. Journal of Geophysical Research, 2007, 112, .	3.3	39
33	Olympus Mons, Mars: Inferred changes in late Amazonian aged effusive activity from lava flow mapping of Mars Express High Resolution Stereo Camera data. Journal of Geophysical Research, 2007, 112, .	3.3	38
34	Hadriaca Patera: Insights into its volcanic history from Mars Express High Resolution Stereo Camera. Journal of Geophysical Research, 2007, 112, .	3.3	38
35	Moon, Mars, Mercury: Basin formation ages and implications for the maximum surface age and the migration of gaseous planets. Earth and Planetary Science Letters, 2014, 400, 54-65.	4.4	36
36	Detection of Carbonates in Martian Weathering Profiles. Journal of Geophysical Research E: Planets, 2019, 124, 989-1007.	3.6	34

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37	Continual geological activity in Athabasca Valles, Mars. Journal of Geophysical Research, 2003, 108, .	3.3	33
38	Formation of Simple Impact Craters in Layered Targets: Implications for Lunar Crater Morphology and Regolith Thickness. Journal of Geophysical Research E: Planets, 2018, 123, 1555-1578.	3.6	29
39	On the use of global potential field models for regional interpretation of the West and Central African Rift System. Tectonophysics, 2010, 492, 25-39.	2.2	27
40	The selfâ€secondary crater population of the Hokusai crater on Mercury. Geophysical Research Letters, 2016, 43, 7424-7432.	4.0	21
41	Martian Cratering 10. Progress in use of crater counts to interpret geological processes: Examples from two debris aprons. Earth and Planetary Science Letters, 2010, 294, 230-237.	4.4	20
42	Dioctahedral Phyllosilicates Versus Zeolites and Carbonates Versus Zeolites Competitions as Constraints to Understanding Early Mars Alteration Conditions. Journal of Geophysical Research E: Planets, 2017, 122, 2328-2343.	3.6	20
43	Young Martian crater Gratteri and its secondary craters. Journal of Geophysical Research E: Planets, 2016, 121, 1118-1140.	3.6	18
44	Formation of Martian araneiforms by gasâ€driven erosion of granular material. Geophysical Research Letters, 2012, 39, .	4.0	17
45	ExoMars Raman Laser Spectrometer: A Tool for the Potential Recognition of Wet-Target Craters on Mars. Astrobiology, 2020, 20, 349-363.	3.0	17
46	Spectroscopic study of olivine-bearing rocks and its relevance to the ExoMars rover mission. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 223, 117360.	3.9	14
47	Dynamics of Lithospheric Overturns and Implications for Venus's Surface. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006258.	3.6	13
48	ExoMars Raman Laser Spectrometer: A Tool to Semiquantify the Serpentinization Degree of Olivine-Rich Rocks on Mars. Astrobiology, 2021, 21, 307-322.	3.0	13
49	In situ calibration of the Martian cratering chronology. Meteoritics and Planetary Science, 2019, 54, 1182-1193.	1.6	12
50	The potential science and engineering value of samples delivered to Earth by Mars sample return. Meteoritics and Planetary Science, 2019, 54, 667-671.	1.6	11
51	The two Suvasvesi impact structures, Finland: Argon isotopic evidence for a â€œfalseâ€•impact crater doublet. Meteoritics and Planetary Science, 2016, 51, 966-980.	1.6	9
52	The Planetary Terrestrial Analogues Library (PTAL) â€“ An exclusive lithological selection of possible martian earth analogues. Planetary and Space Science, 2021, 208, 105339.	1.7	9
53	Interior structure of the Moon: Constraints from seismic tomography, gravity and topography. Physics of the Earth and Planetary Interiors, 2015, 245, 26-39.	1.9	8
54	Early impact chronology of the icy regular satellites of the outer solar system. Icarus, 2021, 358, 114184.	2.5	8

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55	Change in general relativistic precession rates due to Lidovâ€“Kozai oscillations in Solar system. Monthly Notices of the Royal Astronomical Society, 2017, 468, 1405-1414.	4.4	7
56	Experimental hydrothermal alteration of basaltic glass with relevance to Mars. Meteoritics and Planetary Science, 2019, 54, 357-378.	1.6	7
57	Mineralogical and Spectral (Near-Infrared) Characterization of Fe-Rich Vermiculite-Bearing Terrestrial Deposits and Constraints for Mineralogy of Oxia Planum, ExoMars 2022 Landing Site. Astrobiology, 2021, 21, 997-1016.	3.0	7
58	Downsizing the MjÃļnir impact structure, Barents Sea, Norway. Tectonophysics, 2010, 483, 191-202.	2.2	6
59	Why is the areoid like the residual geoid?. Geophysical Research Letters, 2012, 39, .	4.0	6
60	Impact cratering in and around the Orientale Basin: Results from recent high-resolution remote sensing datasets. Icarus, 2019, 333, 343-355.	2.5	6
61	New Evidence for Impact from the Suvasvesi South Structure, Central East Finland. , 2006, , 287-307.		5
62	Chapter 11 Structural interpretation of the Barents and Kara Seas from gravity and magnetic data. Geological Society Memoir, 2011, 35, 197-208.	1.7	4
63	Implications of Anomalous Crustal Provinces for Venus' Resurfacing History. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006340.	3.6	4
64	Orientale Ejecta at the Apollo 14 Landing Site Implies a 200-million-year Stratigraphic Time Shift on the Moon. Planetary Science Journal, 2022, 3, 65.	3.6	4
65	Shield Volcano. , 2015, , 1926-1929.		1
66	Tholus (Mars). , 2014, , 1-4.		0
67	Shield Volcano. , 2014, , 1-5.		0
68	Volcanic Rise. , 2014, , 1-4.		0
69	Large Shield Volcano. , 2014, , 1-9.		0
70	Volcanic Rise. , 2015, , 2273-2276.		0
71	Tholus (Mars). , 2015, , 2140-2143.		0
72	Large Shield Volcano. , 2015, , 1125-1132.		0

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73	Planetary Terrestrial Analogues Library Project: 3. Characterization of Samples With MicrOmega. Astrobiology, 2022, , .	3.0	0