

John Carter

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,648
citations

471509

17
h-index

610901

24
g-index

31
all docs

31
docs citations

31
times ranked

1373
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrous minerals on Mars as seen by the CRISM and OMEGA imaging spectrometers: Updated global view. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 831-858.	3.6	420
2	Widespread surface weathering on early Mars: A case for a warmer and wetter climate. <i>Icarus</i> , 2015, 248, 373-382.	2.5	151
3	Detection of Hydrated Silicates in Crustal Outcrops in the Northern Plains of Mars. <i>Science</i> , 2010, 328, 1682-1686.	12.6	134
4	Global maps of anhydrous minerals at the surface of Mars from OMEGA/MEx. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	133
5	Stratigraphy, mineralogy, and origin of layered deposits inside Terby crater, Mars. <i>Icarus</i> , 2011, 211, 273-304.	2.5	131
6	Global investigation of olivine on Mars: Insights into crust and mantle compositions. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 234-262.	3.6	117
7	Oxia Planum: The Landing Site for the ExoMars "Rosalind Franklin" Rover Mission: Geological Context and Prelanding Interpretation. <i>Astrobiology</i> , 2021, 21, 345-366.	3.0	84
8	Mineral abundances at the final four curiosity study sites and implications for their formation. <i>Icarus</i> , 2014, 231, 65-76.	2.5	74
9	Late Hesperian aqueous alteration at Majuro crater, Mars. <i>Planetary and Space Science</i> , 2012, 72, 18-30.	1.7	52
10	The stratigraphy and history of Mars' northern lowlands through mineralogy of impact craters: A comprehensive survey. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 1824-1854.	3.6	49
11	Valleys, paleolakes and possible shorelines at the Libya Montes/Isidis boundary: Implications for the hydrologic evolution of Mars. <i>Icarus</i> , 2012, 219, 393-413.	2.5	43
12	Automated processing of planetary hyperspectral datasets for the extraction of weak mineral signatures and applications to CRISM observations of hydrated silicates on Mars. <i>Planetary and Space Science</i> , 2013, 76, 53-67.	1.7	43
13	Morphological and Spectral Diversity of the Clay-Bearing Unit at the ExoMars Landing Site Oxia Planum. <i>Astrobiology</i> , 2021, 21, 464-480.	3.0	35
14	Detection of Carbonates in Martian Weathering Profiles. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 989-1007.	3.6	34
15	Observational evidence for a dry dust-wind origin of Mars seasonal dark flows. <i>Icarus</i> , 2019, 325, 115-127.	2.5	29
16	Eridania Basin: An ancient paleolake floor as the next landing site for the Mars 2020 rover. <i>Icarus</i> , 2016, 275, 163-182.	2.5	21
17	Mawrth Vallis, Mars: A Fascinating Place for Future <i>In Situ</i> Exploration. <i>Astrobiology</i> , 2020, 20, 199-234.	3.0	18
18	Toward the geological significance of hydrated silica detected by near infrared spectroscopy on Mars based on terrestrial reference samples. <i>Icarus</i> , 2020, 347, 113706.	2.5	14

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19	Voluminous Silica Precipitated from Martian Waters during Late-stage Aqueous Alteration. Planetary Science Journal, 2021, 2, 65.	3.6	13
20	Planetary Terrestrial Analogues Library project: 1. characterization of samples by near-infrared point spectrometer. Planetary and Space Science, 2020, 189, 104989.	1.7	12
21	Shock metamorphism of clay minerals on Mars by meteor impact. Geophysical Research Letters, 2017, 44, 6562-6569.	4.0	11
22	PSUP: A Planetary SURface Portal. Planetary and Space Science, 2018, 150, 2-8.	1.7	9
23	The M3 project: 1- A global hyperspectral image-cube of the martian surface. Icarus, 2019, 319, 281-292.	2.5	8
24	The M3 project: 3 " Global abundance distribution of hydrated silicates at Mars. Icarus, 2022, 374, 114809.	2.5	7
25	Visible to Short-Wave Infrared Spectral Analyses of Mars from Orbit Using CRISM and OMEGA. , 2019, , 453-483.		6