

Stephen M Clifford

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

2,449
citations

430843

18
h-index

580810

25
g-index

27
all docs

27
docs citations

27
times ranked

1760
citing authors

#	ARTICLE	IF	CITATIONS
1	A model for the hydrologic and climatic behavior of water on Mars. <i>Journal of Geophysical Research</i> , 1993, 98, 10973-11016.	3.3	620
2	Subsurface Radar Sounding of the South Polar Layered Deposits of Mars. <i>Science</i> , 2007, 316, 92-95.	12.6	330
3	Radar Soundings of the Subsurface of Mars. <i>Science</i> , 2005, 310, 1925-1928.	12.6	327
4	Depth of the Martian cryosphere: Revised estimates and implications for the existence and detection of subpermafrost groundwater. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	200
5	Polar basal melting on Mars. <i>Journal of Geophysical Research</i> , 1987, 92, 9135-9152.	3.3	148
6	Radar Sounding of the Medusae Fossae Formation Mars: Equatorial Ice or Dry, Low-Density Deposits?. <i>Science</i> , 2007, 318, 1125-1128.	12.6	143
7	Dielectric map of the Martian northern hemisphere and the nature of plain filling materials. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	112
8	The state, potential distribution, and biological implications of methane in the Martian crust. <i>Journal of Geophysical Research</i> , 2000, 105, 4165-4171.	3.3	85
9	KNUDSEN DIFFUSION. <i>Soil Science</i> , 1986, 141, 289-297.	0.9	56
10	MARSIS radar sounder evidence of buried basins in the northern lowlands of Mars. <i>Nature</i> , 2006, 444, 905-908.	27.8	55
11	Initiation of Martian outflow channels: Related to the dissociation of gas hydrate?. <i>Geophysical Research Letters</i> , 2001, 28, 1787-1790.	4.0	54
12	Radar properties of comets: Parametric dielectric modeling of Comet 67P/Churyumovâ€™Gerasimenko. <i>Icarus</i> , 2012, 221, 925-939.	2.5	50
13	Ground-penetrating radar sounding in mafic lava flows: Assessing attenuation and scattering losses in Mars-analog volcanic terrains. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	48
14	The role of thermal vapor diffusion in the subsurface hydrologic evolution of Mars. <i>Geophysical Research Letters</i> , 1991, 18, 2055-2058.	4.0	44
15	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
16	Methane and carbon dioxide hydrates on Mars: Potential origins, distribution, detection, and implications for future in situ resource utilization. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	28
17	Radar sounding of temperate permafrost in Alaska: Analogy to the Martian midlatitude to high-latitude ice-rich terrains. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	24
18	Sounding the subsurface of Athabasca Valles using MARSIS radar data: Exploring the volcanic and fluvial hypotheses for the origin of the rafted plate terrain. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	19

#	ARTICLE	IF	CITATIONS
19	6th international conference on Mars polar science and exploration: Conference summary and five top questions. Icarus, 2018, 308, 2-14.	2.5	17
20	Introduction to the fifth Mars Polar Science special issue: Key questions, needed observations, and recommended investigations. Icarus, 2013, 225, 864-868.	2.5	9
21	Radar investigations of planetary and terrestrial environments. Journal of Geophysical Research, 2006, 111, .	3.3	7
22	MARSIS radar sounder observations in the vicinity of Ma'adim Vallis, Mars. Icarus, 2009, 201, 460-473.	2.5	7
23	The Hydrology of Mars Including a Potential Cryosphere. , 2019, , 185-246.		7
24	Introduction to the Early Mars III Special Section and Key Questions from the Third International Conference on Early Mars. Journal of Geophysical Research E: Planets, 2014, 119, 1892-1894.	3.6	0