

James H Shirley

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,212
citations

471509

17
h-index

610901

24
g-index

26
all docs

26
docs citations

26
times ranked

957
citing authors

#	ARTICLE	IF	CITATIONS
1	Mars Climate Sounder limb profile retrieval of atmospheric temperature, pressure, and dust and water ice opacity. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	220
2	Structure and dynamics of the Martian lower and middle atmosphere as observed by the Mars Climate Sounder: Seasonal variations in zonal mean temperature, dust, and water ice aerosols. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	183
3	Hydrogen escape from Mars enhanced by deep convection in dust storms. <i>Nature Astronomy</i> , 2018, 2, 126-132.	10.1	112
4	Europa's ridged plains and smooth low albedo plains: Distinctive compositions and compositional gradients at the leading side-trailing side boundary. <i>Icarus</i> , 2010, 210, 358-384.	2.5	67
5	The vertical distribution of dust in the Martian atmosphere during northern spring and summer: Observations by the Mars Climate Sounder and analysis of zonal average vertical dust profiles. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	64
6	Mars Climate Sounder Observation of Mars' 2018 Global Dust Storm. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL083931.	4.0	59
7	Europa's icy bright plains and dark linea: Exogenic and endogenic contributions to composition and surface properties. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	57
8	Vertical distribution of dust in the Martian atmosphere during northern spring and summer: High-altitude tropical dust maximum at northern summer solstice. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	53
9	Solar System dynamics and global-scale dust storms on Mars. <i>Icarus</i> , 2015, 251, 128-144.	2.5	53
10	Diurnal Variations of Dust During the 2018 Global Dust Storm Observed by the Mars Climate Sounder. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006115.	3.6	52
11	Water ice clouds over the Martian tropics during northern summer. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	51
12	Seasonal and diurnal variability of detached dust layers in the tropical Martian atmosphere. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1748-1774.	3.6	39
13	Extreme detached dust layers near Martian volcanoes: Evidence for dust transport by mesoscale circulations forced by high topography. <i>Geophysical Research Letters</i> , 2015, 42, 3730-3738.	4.0	36
14	Dusty Deep Convection in the Mars Year 34 Planet-Encircling Dust Event. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 2863-2892.	3.6	33
15	An Observational Overview of Dusty Deep Convection in Martian Dust Storms. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 3299-3326.	1.7	26
16	Asymmetries in Snowfall, Emissivity, and Albedo of Mars' Seasonal Polar Caps: Mars Climate Sounder Observations. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006150.	3.6	19
17	Rapid Expansion and Evolution of a Regional Dust Storm in the Acidalia Corridor During the Initial Growth Phase of the Martian Global Dust Storm of 2018. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL084317.	4.0	18
18	Surface composition of pull-apart bands in Argadnel Regio, Europa: Evidence of localized cryovolcanic resurfacing during basin formation. <i>Icarus</i> , 2017, 285, 27-42.	2.5	14

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19	Replication of the historic record of martian global dust storm occurrence in an atmospheric general circulation model. <i>Icarus</i> , 2019, 317, 197-208.	2.5	12
20	Europa's surface composition from near-infrared observations: A comparison of results from linear mixture modeling and radiative transfer modeling. <i>Earth and Space Science</i> , 2016, 3, 326-344.	2.6	11
21	Orbit-spin coupling and the interannual variability of global-scale dust storm occurrence on Mars. <i>Planetary and Space Science</i> , 2017, 139, 37-50.	1.7	10
22	Numerical modeling of orbit-spin coupling accelerations in a Mars general circulation model: Implications for global dust storm activity. <i>Planetary and Space Science</i> , 2017, 141, 45-72.	1.7	9
23	Orbit-spin coupling and the circulation of the Martian atmosphere. <i>Planetary and Space Science</i> , 2017, 141, 1-16.	1.7	8
24	Orbit-Spin Coupling and the Triggering of the Martian Planet-Encircling Dust Storm of 2018. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006077.	3.6	6