

Francois Forget

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163
papers

11,207
citations

59
h-index

102
g-index

181
ext. papers

13,003
ext. citations

8.7
avg, IF

6.21
L-index

#	Paper	IF	Citations
163	Improved general circulation models of the Martian atmosphere from the surface to above 80 km. <i>Journal of Geophysical Research</i> , 1999 , 104, 24155-24175		762
162	Phyllosilicates on Mars and implications for early martian climate. <i>Nature</i> , 2005 , 438, 623-7	50.4	706
161	Formation of glaciers on Mars by atmospheric precipitation at high obliquity. <i>Science</i> , 2006 , 311, 368-71	33.3	356
160	Warming early Mars with carbon dioxide clouds that scatter infrared radiation. <i>Science</i> , 1997 , 278, 1273-6	33.3	342
159	Formation of recent martian debris flows by melting of near-surface ground ice at high obliquity. <i>Science</i> , 2002 , 295, 110-3	33.3	321
158	A climate database for Mars. <i>Journal of Geophysical Research</i> , 1999 , 104, 24177-24194		264
157	Global modelling of the early martian climate under a denser CO ₂ atmosphere: Water cycle and ice evolution. <i>Icarus</i> , 2013 , 222, 1-19	3.8	230
156	Origin and role of water ice clouds in the Martian water cycle as inferred from a general circulation model. <i>Journal of Geophysical Research</i> , 2004 , 109,		229
155	3D modelling of the early martian climate under a denser CO ₂ atmosphere: Temperatures and CO ₂ ice clouds. <i>Icarus</i> , 2013 , 222, 81-99	3.8	214
154	Eight-year climatology of dust optical depth on Mars. <i>Icarus</i> , 2015 , 251, 65-95	3.8	211
153	Amazonian northern mid-latitude glaciation on Mars: A proposed climate scenario. <i>Icarus</i> , 2009 , 203, 390-405	3.8	202
152	Increased insolation threshold for runaway greenhouse processes on Earth-like planets. <i>Nature</i> , 2013 , 504, 268-71	50.4	190
151	GLIESE 581D IS THE FIRST DISCOVERED TERRESTRIAL-MASS EXOPLANET IN THE HABITABLE ZONE. <i>Astrophysical Journal Letters</i> , 2011 , 733, L48	7.9	176
150	Recent ice-rich deposits formed at high latitudes on Mars by sublimation of unstable equatorial ice during low obliquity. <i>Nature</i> , 2004 , 431, 1072-5	50.4	173
149	Density and temperatures of the upper Martian atmosphere measured by stellar occultations with Mars Express SPICAM. <i>Journal of Geophysical Research</i> , 2009 , 114,		162
148	3D climate modeling of close-in land planets: Circulation patterns, climate moist bistability, and habitability. <i>Astronomy and Astrophysics</i> , 2013 , 554, A69	5.1	161
147	Superrotation of Venus' atmosphere analyzed with a full general circulation model. <i>Journal of Geophysical Research</i> , 2010 , 115,		150

146	Hydrogen peroxide on Mars: evidence for spatial and seasonal variations. <i>Icarus</i> , 2004 , 170, 424-429	3.8	149
145	The habitability of Proxima Centauri b. <i>Astronomy and Astrophysics</i> , 2016 , 596, A112	5.1	141
144	Three-dimensional modeling of ozone on Mars. <i>Journal of Geophysical Research</i> , 2004 , 109,		136
143	Comparison of Warm and wet and Cold and icy scenarios for early Mars in a 3-D climate model. <i>Journal of Geophysical Research E: Planets</i> , 2015 , 120, 1201-1219	4.1	126
142	Global climate modeling of the Martian water cycle with improved microphysics and radiatively active water ice clouds. <i>Journal of Geophysical Research E: Planets</i> , 2014 , 119, 1479-1495	4.1	120
141	SPICAM on Mars Express: Observing modes and overview of UV spectrometer data and scientific results. <i>Journal of Geophysical Research</i> , 2006 , 111,		116
140	Revisiting the radiative impact of dust on Mars using the LMD Global Climate Model. <i>Journal of Geophysical Research</i> , 2011 , 116,		114
139	CO2 Snowfall on Mars: Simulation with a General Circulation Model. <i>Icarus</i> , 1998 , 131, 302-316	3.8	114
138	Tropical mountain glaciers on Mars: Altitude-dependence of ice accumulation, accumulation conditions, formation times, glacier dynamics, and implications for planetary spin-axis/orbital history. <i>Icarus</i> , 2008 , 198, 305-317	3.8	114
137	Heterogeneous chemistry in the atmosphere of Mars. <i>Nature</i> , 2008 , 454, 971-5	50.4	110
136	Meteorological Variability and the Annual Surface Pressure Cycle on Mars. <i>Journals of the Atmospheric Sciences</i> , 1993 , 50, 3625-3640	2.1	110
135	Infrared collision-induced and far-line absorption in dense CO2 atmospheres. <i>Icarus</i> , 2010 , 210, 992-997	3.8	109
134	Nightglow in the upper atmosphere of Mars and implications for atmospheric transport. <i>Science</i> , 2005 , 307, 566-9	33.3	106
133	Evidence of water vapor in excess of saturation in the atmosphere of Mars. <i>Science</i> , 2011 , 333, 1868-71	33.3	105
132	The sensitivity of the Martian surface pressure and atmospheric mass budget to various parameters: A comparison between numerical simulations and Viking observations. <i>Journal of Geophysical Research</i> , 1995 , 100, 5501		104
131	Modeling the Martian dust cycle 2. Multiannual radiatively active dust transport simulations. <i>Journal of Geophysical Research</i> , 2002 , 107, 7-1-7-15		100
130	A new model to simulate the Martian mesoscale and microscale atmospheric circulation: Validation and first results. <i>Journal of Geophysical Research</i> , 2009 , 114,		96
129	The atmosphere of Mars as observed by InSight. <i>Nature Geoscience</i> , 2020 , 13, 190-198	18.3	93

128	The influence of radiatively active water ice clouds on the Martian climate. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	90
127	Recent formation and evolution of northern Martian polar layered deposits as inferred from a Global Climate Model. <i>Journal of Geophysical Research</i> , 2007 , 112,		90
126	Exploring the faint young Sun problem and the possible climates of the Archean Earth with a 3-D GCM. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 10,414-10,431	4.4	89
125	A ground-to-exosphere Martian general circulation model: 1. Seasonal, diurnal, and solar cycle variation of thermospheric temperatures. <i>Journal of Geophysical Research</i> , 2009 , 114,		89
124	Modeling climate diversity, tidal dynamics and the fate of volatiles on TRAPPIST-1 planets. <i>Astronomy and Astrophysics</i> , 2018 , 612, A86	5.1	88
123	Three-dimensional Martian ionosphere model: I. The photochemical ionosphere below 180 km. <i>Journal of Geophysical Research E: Planets</i> , 2013 , 118, 2105-2123	4.1	86
122	Is Gliese 581d habitable? Some constraints from radiative-convective climate modeling. <i>Astronomy and Astrophysics</i> , 2010 , 522, A22	5.1	84
121	Rocket dust storms and detached dust layers in the Martian atmosphere. <i>Journal of Geophysical Research E: Planets</i> , 2013 , 118, 746-767	4.1	82
120	Martian Year 34 Column Dust Climatology from Mars Climate Sounder Observations: Reconstructed Maps and Model Simulations. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2019JE006711	4.1	74
119	Martian dust storm impact on atmospheric HO and D/H observed by ExoMars Trace Gas Orbiter. <i>Nature</i> , 2019 , 568, 521-525	50.4	72
118	The Atmospheric Chemistry Suite (ACS) of Three Spectrometers for the ExoMars 2016 Trace Gas Orbiter. <i>Space Science Reviews</i> , 2018 , 214, 1	7.5	72
117	Early Mars climate near the Noachian-Esperian boundary: Independent evidence for cold conditions from basal melting of the south polar ice sheet (Dorsa Argentea Formation) and implications for valley network formation. <i>Icarus</i> , 2012 , 219, 25-40	3.8	72
116	No detection of methane on Mars from early ExoMars Trace Gas Orbiter observations. <i>Nature</i> , 2019 , 568, 517-520	50.4	68
115	Observed glacier and volatile distribution on Pluto from atmosphere-topography processes. <i>Nature</i> , 2016 , 540, 86-89	50.4	64
114	Testing evidence of recent hydration state change in sulfates on Mars. <i>Journal of Geophysical Research</i> , 2009 , 114,		64
113	Hyperspectral imaging of convective CO ₂ ice clouds in the equatorial mesosphere of Mars. <i>Journal of Geophysical Research</i> , 2007 , 112,		64
112	Stormy water on Mars: The distribution and saturation of atmospheric water during the dusty season. <i>Science</i> , 2020 , 367, 297-300	33.3	63
111	Recent advances in collisional effects on spectra of molecular gases and their practical consequences. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 213, 178-227	2.1	63

110	Water ice at low to midlatitudes on Mars. <i>Journal of Geophysical Research</i> , 2010 , 115,		63
109	Variability of the hydrogen in the martian upper atmosphere as simulated by a 3D atmosphere-exosphere coupling. <i>Icarus</i> , 2015 , 245, 282-294	3.8	62
108	Mapping the mesospheric CO ₂ clouds on Mars: MEx/OMEGA and MEx/HRSC observations and challenges for atmospheric models. <i>Icarus</i> , 2010 , 209, 452-469	3.8	62
107	Atmospheric Science with InSight. <i>Space Science Reviews</i> , 2018 , 214, 1	7.5	61
106	Recent Ice Ages on Mars: The role of radiatively active clouds and cloud microphysics. <i>Geophysical Research Letters</i> , 2014 , 41, 4873-4879	4.9	60
105	Dunes on Pluto. <i>Science</i> , 2018 , 360, 992-997	33.3	60
104	Geology of the InSight landing site on Mars. <i>Nature Communications</i> , 2020 , 11, 1014	17.4	59
103	Variability of the Martian thermosphere during eight Martian years as simulated by a ground-to-exosphere global circulation model. <i>Journal of Geophysical Research E: Planets</i> , 2015 , 120, 2020-2035	4.1	55
102	The effect of ground ice on the Martian seasonal CO ₂ cycle. <i>Planetary and Space Science</i> , 2008 , 56, 251-255		55
101	Upper atmosphere of Mars up to 120 km: Mars Global Surveyor accelerometer data analysis with the LMD general circulation model. <i>Journal of Geophysical Research</i> , 2004 , 109,		55
100	DIFFERENCES IN WATER VAPOR RADIATIVE TRANSFER AMONG 1D MODELS CAN SIGNIFICANTLY AFFECT THE INNER EDGE OF THE HABITABLE ZONE. <i>Astrophysical Journal</i> , 2016 , 826, 222	4.7	55
99	The dispersal of pyroclasts from ancient explosive volcanoes on Mars: Implications for the friable layered deposits. <i>Icarus</i> , 2012 , 219, 358-381	3.8	53
98	Seasonal variations of the martian CO ₂ over Hellas as observed by OMEGA/Mars Express. <i>Astronomy and Astrophysics</i> , 2006 , 459, 265-270	5.1	53
97	Late Tharsis formation and implications for early Mars. <i>Nature</i> , 2016 , 531, 344-7	50.4	53
96	A post-new horizons global climate model of Pluto including the N ₂ , CH ₄ and CO cycles. <i>Icarus</i> , 2017 , 287, 54-71	3.8	52
95	History and anatomy of subsurface ice on Mars. <i>Icarus</i> , 2012 , 220, 1112-1120	3.8	52
94	A thermal plume model for the Martian convective boundary layer. <i>Journal of Geophysical Research E: Planets</i> , 2013 , 118, 1468-1487	4.1	48
93	The nitrogen cycles on Pluto over seasonal and astronomical timescales. <i>Icarus</i> , 2018 , 309, 277-296	3.8	45

92	CO ₂ condensation is a serious limit to the deglaciation of Earth-like planets. <i>Earth and Planetary Science Letters</i> , 2017 , 476, 11-21	5.3	44
91	Crustal and time-varying magnetic fields at the InSight landing site on Mars. <i>Nature Geoscience</i> , 2020 , 13, 199-204	18.3	42
90	The Mars Dust Cycle 295-337		42
89	Possible climates on terrestrial exoplanets. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014 , 372, 20130084	3	40
88	The seasonal cycle of water vapour on Mars from assimilation of Thermal Emission Spectrometer data. <i>Icarus</i> , 2014 , 237, 97-115	3.8	40
87	Extensive MRO CRISM observations of 1.27 μ m O ₂ airglow in Mars polar night and their comparison to MRO MCS temperature profiles and LMD GCM simulations. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		40
86	A stringent upper limit to SO ₂ in the Martian atmosphere. <i>Astronomy and Astrophysics</i> , 2011 , 530, A37	5.1	39
85	The martian mesosphere as revealed by CO ₂ cloud observations and General Circulation Modeling. <i>Icarus</i> , 2011 , 216, 10-22	3.8	39
84	The impact of martian mesoscale winds on surface temperature and on the determination of thermal inertia. <i>Icarus</i> , 2011 , 212, 504-519	3.8	39
83	Structure and dynamics of the convective boundary layer on Mars as inferred from large-eddy simulations and remote-sensing measurements. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010 , 136, 414-428	6.4	39
82	The solstitial pause on Mars: 2 modelling and investigation of causes. <i>Icarus</i> , 2016 , 264, 465-477	3.8	38
81	MAVEN/IUVS Stellar Occultation Measurements of Mars Atmospheric Structure and Composition. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 1449-1483	4.1	38
80	Global climate modeling of Saturn's atmosphere. Part I: Evaluation of the radiative transfer model. <i>Icarus</i> , 2014 , 238, 110-124	3.8	38
79	Thermal infrared observations of the condensing Martian polar caps: CO ₂ ice temperatures and radiative budget. <i>Journal of Geophysical Research</i> , 1996 , 101, 16865-16879		38
78	3D modeling of organic haze in Pluto's atmosphere. <i>Icarus</i> , 2017 , 287, 72-86	3.8	37
77	Sulfur in the early martian atmosphere revisited: Experiments with a 3-D Global Climate Model. <i>Icarus</i> , 2015 , 261, 133-148	3.8	37
76	Bladed Terrain on Pluto: Possible origins and evolution. <i>Icarus</i> , 2018 , 300, 129-144	3.8	36
75	A warm or a cold early Earth? New insights from a 3-D climate-carbon model. <i>Earth and Planetary Science Letters</i> , 2017 , 474, 97-109	5.3	36

74	Pluto's haze as a surface material. <i>Icarus</i> , 2018 , 314, 232-245	3.8	35
73	Three-dimensional Martian ionosphere model: II. Effect of transport processes due to pressure gradients. <i>Journal of Geophysical Research E: Planets</i> , 2014 , 119, 1614-1636	4.1	35
72	A study of the properties of a local dust storm with Mars Express OMEGA and PFS data. <i>Icarus</i> , 2009 , 201, 504-516	3.8	35
71	On the origin of perennial water ice at the south pole of Mars: A precession-controlled mechanism?. <i>Journal of Geophysical Research</i> , 2007 , 112,		35
70	Evidence for Amazonian northern mid-latitude regional glacial landsystems on Mars: Glacial flow models using GCM-driven climate results and comparisons to geological observations. <i>Icarus</i> , 2011 , 216, 23-39	3.8	34
69	Remote sensing of surface pressure on Mars with the Mars Express/OMEGA spectrometer: 1. Retrieval method. <i>Journal of Geophysical Research</i> , 2007 , 112,		33
68	Aphelion water-ice cloud mapping and property retrieval using the OMEGA imaging spectrometer onboard Mars Express. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		32
67	3D modelling of the climatic impact of outflow channel formation events on early Mars. <i>Icarus</i> , 2017 , 288, 10-36	3.8	30
66	The CH ₄ cycles on Pluto over seasonal and astronomical timescales. <i>Icarus</i> , 2019 , 329, 148-165	3.8	30
65	Comprehensive analysis of glaciated martian crater Greg. <i>Icarus</i> , 2014 , 228, 96-120	3.8	30
64	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	4.1	30
63	Nitric oxide nightglow and Martian mesospheric circulation from MAVEN/IUVS observations and LMD-MGCM predictions. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5782-5797	2.6	29
62	On the probability of habitable planets. <i>International Journal of Astrobiology</i> , 2013 , 12, 177-185	1.4	29
61	Numerical simulation of the winter polar wave clouds observed by Mars Global Surveyor Mars Orbiter Laser Altimeter. <i>Icarus</i> , 2003 , 164, 33-49	3.8	29
60	TRAPPIST-1 Habitable Atmosphere Intercomparison (THAI): motivations and protocol version 1.0. <i>Geoscientific Model Development</i> , 2020 , 13, 707-716	6.3	28
59	Remote sensing of surface pressure on Mars with the Mars Express/OMEGA spectrometer: 2. Meteorological maps. <i>Journal of Geophysical Research</i> , 2007 , 112,		28
58	Unraveling the martian water cycle with high-resolution global climate simulations. <i>Icarus</i> , 2017 , 291, 82-106	3.8	26
57	Exploring the spatial, temporal, and vertical distribution of methane in Pluto's atmosphere. <i>Icarus</i> , 2015 , 246, 268-278	3.8	26

56	Far infrared measurements of absorptions by CH ₄ + CO ₂ and H ₂ + CO ₂ mixtures and implications for greenhouse warming on early Mars. <i>Icarus</i> , 2019 , 321, 189-199	3.8	25
55	Snow precipitation on Mars driven by cloud-induced night-time convection. <i>Nature Geoscience</i> , 2017 , 10, 652-657	18.3	24
54	Upper Neutral Atmosphere and Ionosphere 433-463		24
53	Mapping water ice clouds on Mars with MRO/MARCI. <i>Icarus</i> , 2019 , 332, 24-49	3.8	23
52	Thermal and wind structure of the Martian thermosphere as given by two General Circulation Models. <i>Planetary and Space Science</i> , 2010 , 58, 1832-1849	2	22
51	Simulations of Water Vapor and Clouds on Rapidly Rotating and Tidally Locked Planets: A 3D Model Intercomparison. <i>Astrophysical Journal</i> , 2019 , 875, 46	4.7	21
50	Orographic precipitation in valley network headwaters: Constraints on the ancient Martian atmosphere. <i>Geophysical Research Letters</i> , 2013 , 40, 4182-4187	4.9	20
49	Detection of detached dust layers in the Martian atmosphere from their thermal signature using assimilation. <i>Geophysical Research Letters</i> , 2014 , 41, 6620-6626	4.9	19
48	Lower atmosphere and pressure evolution on Pluto from ground-based stellar occultations, 1988-2016. <i>Astronomy and Astrophysics</i> , 2019 , 625, A42	5.1	19
47	Titan's past and future: 3D modeling of a pure nitrogen atmosphere and geological implications. <i>Icarus</i> , 2014 , 241, 269-279	3.8	18
46	A Study of Daytime Convective Vortices and Turbulence in the Martian Planetary Boundary Layer Based on Half-a-Year of InSight Atmospheric Measurements and Large-Eddy Simulations. <i>Journal of Geophysical Research E: Planets</i> , 2021 , 126,	4.1	18
45	Parameterization of Rocket Dust Storms on Mars in the LMD Martian GCM: Modeling Details and Validation. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 982-1000	4.1	17
44	The effect of atmospheric pressure on the dispersal of pyroclasts from martian volcanoes. <i>Icarus</i> , 2013 , 223, 149-156	3.8	17
43	The environmental effects of very large bolide impacts on early Mars explored with a hierarchy of numerical models. <i>Icarus</i> , 2020 , 335, 113419	3.8	17
42	The Challenge of Atmospheric Data Assimilation on Mars. <i>Earth and Space Science</i> , 2017 , 4, 690-722	3.1	16
41	Constraining physics of very hot super-Earths with the James Webb Telescope. The case of CoRoT-7b. <i>Astronomy and Astrophysics</i> , 2014 , 563, A103	5.1	16
40	Impact of Gravity Waves on the Middle Atmosphere of Mars: A Non-Orographic Gravity Wave Parameterization Based on Global Climate Modeling and MCS Observations. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2018JE005873	4.1	15
39	The Global Circulation 229-294		15

38	The vertical structure of CO in the Martian atmosphere from the ExoMars Trace Gas Orbiter. <i>Nature Geoscience</i> , 2021 , 14, 67-71	18.3	15
37	Is the Faint Young Sun Problem for Earth Solved?. <i>Space Science Reviews</i> , 2020 , 216, 1	7.5	14
36	Solar Tides in the Middle and Upper Atmosphere of Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028140	2.6	14
35	The paradoxes of the Late Hesperian Mars ocean. <i>Scientific Reports</i> , 2019 , 9, 5717	4.9	13
34	Effects of a Large Dust Storm in the Near-Surface Atmosphere as Measured by InSight in Elysium Planitia, Mars. Comparison With Contemporaneous Measurements by Mars Science Laboratory. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2020JE006493	4.1	13
33	The Water Cycle338-373		12
32	Emirates Mars Mission Characterization of Mars Atmosphere Dynamics and Processes. <i>Space Science Reviews</i> , 2021 , 217,	7.5	12
31	Multi-model Meteorological and Aeolian Predictions for Mars 2020 and the Jezero Crater Region. <i>Space Science Reviews</i> , 2021 , 217, 20	7.5	12
30	Modeling Wind-Driven Ionospheric Dynamo Currents at Mars: Expectations for InSight Magnetic Field Measurements. <i>Geophysical Research Letters</i> , 2019 , 46, 5083-5091	4.9	10
29	Pluto's Beating Heart Regulates the Atmospheric Circulation: Results From High-Resolution and Multiyear Numerical Climate Simulations. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2019JE006120	4.1	10
28	Mars's Twilight Cloud Band: A New Cloud Feature Seen During the Mars Year 34 Global Dust Storm. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL084997	4.9	10
27	Habitable Zone around other Stars. <i>Earth, Moon and Planets</i> , 1998 , 81, 59-72	0.6	9
26	Equatorial mountains on Pluto are covered by methane frosts resulting from a unique atmospheric process. <i>Nature Communications</i> , 2020 , 11, 5056	17.4	9
25	Soil Thermophysical Properties Near the InSight Lander Derived From 50 Sols of Radiometer Measurements. <i>Journal of Geophysical Research E: Planets</i> , 2021 , 126, e2021JE006859	4.1	9
24	A stringent upper limit of 20 pptv for methane on Mars and constraints on its dispersion outside Gale crater. <i>Astronomy and Astrophysics</i> ,	5.1	8
23	TRAPPIST Habitable Atmosphere Intercomparison (THAI) Workshop Report. <i>Planetary Science Journal</i> , 2021 , 2, 106	2.9	8
22	Regional stratigraphy of the south polar layered deposits (Promethei Lingula, Mars): Discontinuity-bounded units in images and radargrams. <i>Icarus</i> , 2018 , 308, 76-107	3.8	7
21	Mars Clouds76-105		7

20	The Emirates Mars Mission.. <i>Space Science Reviews</i> , 2022 , 218, 4	7.5	7
19	Imaging of Martian Circulation Patterns and Atmospheric Tides Through MAVEN/IUVS Nightglow Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027318	2.6	7
18	Seasonal reappearance of HCl in the atmosphere of Mars during the Mars year 35 dusty season. <i>Astronomy and Astrophysics</i> , 2021 , 647, A161	5.1	7
17	The Early Mars Climate System 526-568		6
16	Near Surface Properties of Martian Regolith Derived From InSight HP3-RAD Temperature Observations During Phobos Transits. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL093542	4.9	6
15	Recent Climate Variations 497-525		5
14	Seasonal Variability of the Daytime and Nighttime Atmospheric Turbulence Experienced by InSight on Mars. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL095453	4.9	5
13	The Origin of Observed Magnetic Variability for a Sol on Mars From InSight. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2020JE006505	4.1	5
12	The Effect of the Martian 2018 Global Dust Storm on HDO as Predicted by a Mars Global Climate Model. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL090962	4.9	5
11	Relationship Between the Ozone and Water Vapor Columns on Mars as Observed by SPICAM and Calculated by a Global Climate Model. <i>Journal of Geophysical Research E: Planets</i> , 2021 , 126, e2021JE006838	4.1	5
10	A Seasonally Recurrent Annular Cyclone in Mars Northern Latitudes and Observations of a Companion Vortex. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 3020-3034	4.1	5
9	Global seasonal variations of the near-surface relative humidity levels on present-day Mars. <i>Icarus</i> , 2019 , 333, 481-495	3.8	4
8	Thermal structure and aerosols in Mars atmosphere from TIRVIM/ACS onboard the ExoMars Trace Gas Orbiter : validation of the retrieval algorithm. <i>Journal of Geophysical Research E: Planets</i> ,	4.1	4
7	Seasonal seismic activity on Mars. <i>Earth and Planetary Science Letters</i> , 2021 , 576, 117171	5.3	3
6	Thermal Tides in the Martian Atmosphere Near Northern Summer Solstice Observed by ACS/TIRVIM Onboard TGO. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	3
5	Water and Climates on Mars 2007 , 103-122		2
4	The Wave Origins of Longitudinal Structures in ExoMars Trace Gas Orbiter (TGO) Aerobraking Densities. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028769	2.6	2
3	MOSAIC: A Satellite Constellation to Enable Groundbreaking Mars Climate System Science and Prepare for Human Exploration. <i>Planetary Science Journal</i> , 2021 , 2, 211	2.9	1

- 2 Volatile transport modeling on Triton with new observational constraints. *Icarus*, **2021**, 114764 3.8 o
- 1 Global climate model occultation lightcurves tested by August 2018 ground-based stellar occultation. *Icarus*, **2021**, 356, 113976 3.8