

Michael D Smith

List of Publications by Year in descending order

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144
papers

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#	ARTICLE	IF	CITATIONS
1	Explaining NOMAD D/H Observations by Cloud-Induced Fractionation of Water Vapor on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	11
2	The Emirates Mars Mission. <i>Space Science Reviews</i> , 2022, 218, 4.	3.7	29
3	Radiation and Dust Sensor for Mars Environmental Dynamic Analyzer Onboard M2020 Rover. <i>Sensors</i> , 2022, 22, 2907.	2.1	18
4	Mars TM emitted energy and seasonal energy imbalance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2121084119.	3.3	2
5	Planet-Wide Ozone Destruction in the Middle Atmosphere on Mars During Global Dust Storm. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	7
6	The Deuterium Isotopic Ratio of Water Released From the Martian Caps as Measured With TGO/NOMAD. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	15
7	The annual cycle of water vapor above gale crater as retrieved by CRISM and compared to ChemCam passive sky spectroscopy. <i>Icarus</i> , 2022, 385, 115136.	1.1	1
8	Comprehensive investigation of Mars methane and organics with ExoMars/NOMAD. <i>Icarus</i> , 2021, 357, 114266.	1.1	27
9	Water heavily fractionated as it ascends on Mars as revealed by ExoMars/NOMAD. <i>Science Advances</i> , 2021, 7, .	4.7	31
10	The Mars Environmental Dynamics Analyzer, MEDA. A Suite of Environmental Sensors for the Mars 2020 Mission. <i>Space Science Reviews</i> , 2021, 217, 48.	3.7	57
11	Probing the Atmospheric Cl Isotopic Ratio on Mars: Implications for Planetary Evolution and Atmospheric Chemistry. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092650.	1.5	7
12	Temperature fluctuations and boundary layer turbulence as seen by Mars Exploration Rovers Miniature Thermal Emission Spectrometer. <i>Icarus</i> , 2021, 360, 114350.	1.1	8
13	Gravity Wave Observations by the Mars Science Laboratory REMS Pressure Sensor and Comparison With Mesoscale Atmospheric Modeling With MarsWRF. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006907.	1.5	11
14	The climatology of carbon monoxide on Mars as observed by NOMAD nadir-geometry observations. <i>Icarus</i> , 2021, 362, 114404.	1.1	11
15	The Emirates Mars Mission (EMM) Emirates Mars InfraRed Spectrometer (EMIRS) Instrument. <i>Space Science Reviews</i> , 2021, 217, 77.	3.7	21
16	Emirates Mars Mission Characterization of Mars Atmosphere Dynamics and Processes. <i>Space Science Reviews</i> , 2021, 217, .	3.7	23
17	ExoMars TGO/NOMAD-UVIS Vertical Profiles of Ozone: 2. The High-Altitude Layers of Atmospheric Ozone. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006834.	1.5	14
18	A Global and Seasonal Perspective of Martian Water Vapor From ExoMars/NOMAD. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, .	1.5	8

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19	MOSAIC: A Satellite Constellation to Enable Groundbreaking Mars Climate System Science and Prepare for Human Exploration. <i>Planetary Science Journal</i> , 2021, 2, 211.	1.5	6
20	ExoMars TGO/NOMADâ€UUVIS Vertical Profiles of Ozone: 1. Seasonal Variation and Comparison to Water. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006837.	1.5	18
21	First Detection and Thermal Characterization of Terminator CO ₂ Ice Clouds With ExoMars/NOMAD. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	12
22	Explanation for the Increase in Highâ€Altitude Water on Mars Observed by NOMAD During the 2018 Global Dust Storm. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL084354.	1.5	62
23	Strong Variability of Martian Water Ice Clouds During Dust Storms Revealed From ExoMars Trace Gas Orbiter/NOMAD. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006250.	1.5	39
24	MAVEN ROSE Observations of the Response of the Martian Ionosphere to Dust Storms. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027083.	0.8	22
25	Design of a direct-detection wind and aerosol lidar for mars orbit. <i>CEAS Space Journal</i> , 2020, 12, 149-162.	1.1	12
26	Detections of Water Vapor Increase Over the North Polar Troughs on Mars as Observed by CRISM. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086195.	1.5	3
27	Global seasonal variations of the near-surface relative humidity levels on present-day Mars. <i>Icarus</i> , 2019, 333, 481-495.	1.1	11
28	Effects of the MY34/2018 Global Dust Storm as Measured by MSL REMS in Gale Crater. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1899-1912.	1.5	40
29	THEMIS Observations of the 2018 Mars Global Dust Storm. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 2929-2944.	1.5	46
30	Large Dust Aerosol Sizes Seen During the 2018 Martian Global Dust Event by the Curiosity Rover. <i>Geophysical Research Letters</i> , 2019, 46, 9448-9456.	1.5	58
31	Understanding the water cycle above the north polar cap on Mars using MRO CRISM retrievals of water vapor. <i>Icarus</i> , 2019, 321, 722-735.	1.1	13
32	Local time variation of water ice clouds on Mars as observed by THEMIS. <i>Icarus</i> , 2019, 333, 273-282.	1.1	14
33	IRTF/CSHELL mapping of atmospheric HDO, H ₂ O and D/H on Mars during northern summer. <i>Icarus</i> , 2019, 330, 204-216.	1.1	8
34	Global analysis and forecasts of carbon monoxide on Mars. <i>Icarus</i> , 2019, 328, 232-245.	1.1	19
35	Seasonal Variation in Martian Water Ice Cloud Particle Size. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 636-643.	1.5	21
36	Martian dust storm impact on atmospheric H ₂ O and D/H observed by ExoMars Trace Gas Orbiter. <i>Nature</i> , 2019, 568, 521-525.	13.7	107

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37	The distribution, composition, and particle properties of Mars mesospheric aerosols: An analysis of CRISM visible/near-IR limb spectra with context from near-coincident MCS and MARCI observations. <i>Icarus</i> , 2019, 328, 246-273.	1.1	40
38	Water Vapor Vertical Profiles on Mars in Dust Storms Observed by TGO/NOMAD. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 3482-3497.	1.5	88
39	Methane on Mars: New insights into the sensitivity of CH ₄ with the NOMAD/ExoMars spectrometer through its first in-flight calibration. <i>Icarus</i> , 2019, 321, 671-690.	1.1	32
40	Mars Science Laboratory Observations of the 2018/Mars Year 34 Global Dust Storm. <i>Geophysical Research Letters</i> , 2019, 46, 71-79.	1.5	138
41	Retrieval of water vapor column abundance and aerosol properties from ChemCam passive sky spectroscopy. <i>Icarus</i> , 2018, 307, 294-326.	1.1	39
42	Saltation under Martian gravity and its influence on the global dust distribution. <i>Icarus</i> , 2018, 306, 25-31.	1.1	33
43	The Thermophysical Properties of the Bagnold Dunes, Mars: Ground-Truthing Orbital Data. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 1307-1326.	1.5	34
44	The climatology of carbon monoxide and water vapor on Mars as observed by CRISM and modeled by the GEM-Mars general circulation model. <i>Icarus</i> , 2018, 301, 117-131.	1.1	74
45	NOMAD, an Integrated Suite of Three Spectrometers for the ExoMars Trace Gas Mission: Technical Description, Science Objectives and Expected Performance. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	95
46	Planetary Spectrum Generator: An accurate online radiative transfer suite for atmospheres, comets, small bodies and exoplanets. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 217, 86-104.	1.1	167
47	Background levels of methane in Mars's atmosphere show strong seasonal variations. <i>Science</i> , 2018, 360, 1093-1096.	6.0	224
48	Thermophysical properties along Curiosity's traverse in Gale crater, Mars, derived from the REMS ground temperature sensor. <i>Icarus</i> , 2017, 284, 372-386.	1.1	74
49	Vertical profiles of Mars 1.27- μm O ₂ dayglow from MRO CRISM limb spectra: Seasonal/global behaviors, comparisons to LMDGCM simulations, and a global definition for Mars water vapor profiles. <i>Icarus</i> , 2017, 293, 132-156.	1.1	58
50	The Modern Near-Surface Martian Climate: A Review of In-situ Meteorological Data from Viking to Curiosity. <i>Space Science Reviews</i> , 2017, 212, 295-338.	3.7	153
51	Seasonal Slumps in Juventae Chasma, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2193-2214.	1.5	14
52	History of Mars Atmosphere Observations. , 2017, , 20-41.		4
53	Thermal Structure and Composition. , 2017, , 42-75.		19
54	Mars Clouds. , 2017, , 76-105.		24

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55	The Martian Planetary Boundary Layer. , 2017, , 172-202.		14
56	Mesoscale Meteorology. , 2017, , 203-228.		5
57	The Global Circulation. , 2017, , 229-294.		31
58	The Mars Dust Cycle. , 2017, , 295-337.		70
59	The Water Cycle. , 2017, , 338-373.		24
60	Atmospheric Photochemistry. , 2017, , 405-432.		18
61	Upper Neutral Atmosphere and Ionosphere. , 2017, , 433-463.		33
62	The Vertical Dust Profile Over Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2017, 122, 2779-2792.	1.5	22
63	Unique Spectroscopy and Imaging of Mars with the <i>James Webb Space Telescope</i> . Publications of the Astronomical Society of the Pacific, 2016, 128, 018004.	1.0	5
64	Interannual similarity in the Martian atmosphere during the dust storm season. Geophysical Research Letters, 2016, 43, 6111-6118.	1.5	121
65	Endmember identification and spectral mixture analysis of CRISM hyperspectral data: A case study on southwest Melas Chasma, Mars. Journal of Geophysical Research E: Planets, 2016, 121, 2004-2036.	1.5	34
66	Aerosol optical depth as observed by the Mars Science Laboratory REMS UV photodiodes. Icarus, 2016, 280, 234-248.	1.1	48
67	The solstitial pause on Mars: 1. A planetary wave reanalysis. Icarus, 2016, 264, 456-464.	1.1	74
68	Daily global mapping of Mars ozone column abundances with MARCI UV band imaging. Icarus, 2016, 266, 112-133.	1.1	50
69	A solar escalator on Mars: Self-lifting of dust layers by radiative heating. Geophysical Research Letters, 2015, 42, 7319-7326.	1.5	38
70	Mars Reconnaissance Orbiter and Opportunity observations of the Burns formation: Crater hopping at Meridiani Planum. Journal of Geophysical Research E: Planets, 2015, 120, 429-451.	1.5	30
71	Strong water isotopic anomalies in the martian atmosphere: Probing current and ancient reservoirs. Science, 2015, 348, 218-221.	6.0	245
72	Observational evidence of a suppressed planetary boundary layer in northern Gale Crater, Mars as seen by the Navcam instrument onboard the Mars Science Laboratory rover. Icarus, 2015, 249, 129-142.	1.1	66

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73	Atmospheric movies acquired at the Mars Science Laboratory landing site: Cloud morphology, frequency and significance to the Gale Crater water cycle and Phoenix mission results. <i>Advances in Space Research</i> , 2015, 55, 2217-2238.	1.2	28
74	Science objectives and performances of NOMAD, a spectrometer suite for the ExoMars TGO mission. <i>Planetary and Space Science</i> , 2015, 119, 233-249.	0.9	77
75	Mars TM water vapor mapping by the SPICAM IR spectrometer: Five martian years of observations. <i>Icarus</i> , 2015, 251, 50-64.	1.1	90
76	Dust aerosol, clouds, and the atmospheric optical depth record over 5 Mars years of the Mars Exploration Rover mission. <i>Icarus</i> , 2015, 251, 96-111.	1.1	158
77	The vertical distribution of Martian aerosol particle size. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 2694-2708.	1.5	42
78	The Mars Analysis Correction Data Assimilation (<sc>MACDA</sc>) Dataset V1.0. <i>Geoscience Data Journal</i> , 2014, 1, 129-139.	1.8	61
79	Mars TM Surface Radiation Environment Measured with the Mars Science Laboratory TM 's Curiosity Rover. <i>Science</i> , 2014, 343, 1244797.	6.0	475
80	The seasonal cycle of water vapour on Mars from assimilation of Thermal Emission Spectrometer data. <i>Icarus</i> , 2014, 237, 97-115.	1.1	47
81	Mars photoelectron energy and pitch angle dependence on intense lower atmospheric dust storms. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1689-1706.	1.5	13
82	Thermal tides during the 2001 Martian global ^{scale} dust storm. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 506-519.	1.5	42
83	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. <i>Science</i> , 2013, 341, 1239505.	6.0	280
84	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. <i>Science</i> , 2013, 341, 263-266.	6.0	327
85	First detection of Mars atmospheric hydroxyl: CRISM Near-IR measurement versus LMD GCM simulation of OH Meinel band emission in the Mars polar winter atmosphere. <i>Icarus</i> , 2013, 226, 272-281.	1.1	54
86	Retrievals of martian atmospheric opacities from MGS TES nighttime data. <i>Icarus</i> , 2013, 226, 708-722.	1.1	41
87	Low Upper Limit to Methane Abundance on Mars. <i>Science</i> , 2013, 342, 355-357.	6.0	103
88	Vertical distribution of dust and water ice aerosols from CRISM limb ^{geometry} observations. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 321-334.	1.5	74
89	High spatial and temporal resolution sampling of Martian gas abundances from CRISM spectra. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 89-104.	1.5	36
90	Extensive MRO CRISM observations of 1.27×10^{-4} 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, .	3.3	51

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91	Time-history influence of global dust storms on the upper atmosphere at Mars. <i>Geophysical Research Letters</i> , 2012, 39, n/a-n/a.	1.5	16
92	MGS TES observations of the water vapor above the seasonal and perennial ice caps during northern spring and summer. <i>Icarus</i> , 2010, 210, 58-71.	1.1	32
93	Extension of atmospheric dust loading to high altitudes during the 2001 Mars dust storm: MGS TES limb observations. <i>Icarus</i> , 2010, 207, 98-109.	1.1	87
94	Phoenix and MRO coordinated atmospheric measurements. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	40
95	An improvement to the volcano-scan algorithm for atmospheric correction of CRISM and OMEGA spectral data. <i>Planetary and Space Science</i> , 2009, 57, 809-815.	0.9	166
96	Thermal structure of the atmospheric boundary layer on Mars based on MiniTES observations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 1776-1787.	1.0	14
97	THEMIS observations of Mars aerosol optical depth from 2002 to 2008. <i>Icarus</i> , 2009, 202, 444-452.	1.1	178
98	Water vapor variability in the north polar region of Mars from Viking MAWD and MGS TES datasets. <i>Icarus</i> , 2009, 204, 87-102.	1.1	17
99	Compact Reconnaissance Imaging Spectrometer for Mars investigation and data set from the Mars Reconnaissance Orbiter's primary science phase. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	178
100	Simultaneous observations of the Martian atmosphere by Planetary Fourier Spectrometer on Mars Express and Miniature Thermal Emission Spectrometer on Mars Exploration Rover. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	7
101	Strong Release of Methane on Mars in Northern Summer 2003. <i>Science</i> , 2009, 323, 1041-1045.	6.0	516
102	Wavelength dependence of dust aerosol single scattering albedo as observed by the Compact Reconnaissance Imaging Spectrometer. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	196
103	Compact Reconnaissance Imaging Spectrometer observations of water vapor and carbon monoxide. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	137
104	MRO/CRISM Retrieval of Surface Lambert Albedos for Multispectral Mapping of Mars With DISORT-Based Radiative Transfer Modeling: Phase 1 Using Historical Climatology for Temperatures, Aerosol Optical Depths, and Atmospheric Pressures. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 4020-4040.	2.7	41
105	Influence of water ice clouds on Martian tropical atmospheric temperatures. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	84
106	Expected atmospheric environment for the Phoenix landing season and location. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	25
107	Spacecraft Observations of the Martian Atmosphere. <i>Annual Review of Earth and Planetary Sciences</i> , 2008, 36, 191-219.	4.6	162
108	Diurnal variation and radiative influence of Martian water ice clouds. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	82

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109	CRISM multispectral summary products: Parameterizing mineral diversity on Mars from reflectance. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	304
110	Compact Reconnaissance Imaging Spectrometer for Mars (CRISM) on Mars Reconnaissance Orbiter (MRO). <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	796
111	Mars equatorial mesospheric clouds: Global occurrence and physical properties from Mars Global Surveyor Thermal Emission Spectrometer and Mars Orbiter Camera limb observations. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	66
112	Assimilation of thermal emission spectrometer atmospheric data during the Mars Global Surveyor aerobraking period. <i>Icarus</i> , 2007, 192, 327-347.	1.1	91
113	Overview of the Opportunity Mars Exploration Rover Mission to Meridiani Planum: Eagle Crater to Purgatory Ripple. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	149
114	Overview of the Spirit Mars Exploration Rover Mission to Gusev Crater: Landing site to Backstay Rock in the Columbia Hills. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	238
115	One Martian year of atmospheric observations using MER Mini-TES. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	147
116	Constraints on dust aerosols from the Mars Exploration Rovers using MGS overflights and Mini-TES. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	159
117	Atmospheric Imaging Results from the Mars Exploration Rovers: Spirit and Opportunity. <i>Science</i> , 2004, 306, 1753-1756.	6.0	219
118	Initial Results from the Mini-TES Experiment in Gusev Crater from the Spirit Rover. <i>Science</i> , 2004, 305, 837-842.	6.0	168
119	Mineralogy at Meridiani Planum from the Mini-TES Experiment on the Opportunity Rover. <i>Science</i> , 2004, 306, 1733-1739.	6.0	370
120	The Spirit Rover's Athena Science Investigation at Gusev Crater, Mars. <i>Science</i> , 2004, 305, 794-799.	6.0	404
121	The Opportunity Rover's Athena Science Investigation at Meridiani Planum, Mars. <i>Science</i> , 2004, 306, 1698-1703.	6.0	507
122	First Atmospheric Science Results from the Mars Exploration Rovers Mini-TES. <i>Science</i> , 2004, 306, 1750-1753.	6.0	102
123	Interannual variability in TES atmospheric observations of Mars during 1999â€“2003. <i>Icarus</i> , 2004, 167, 148-165.	1.1	669
124	Atmospheric correction and surface spectral unit mapping using Thermal Emission Imaging System data. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	91
125	Comparison of atmospheric temperatures obtained through infrared sounding and radio occultation by Mars Global Surveyor. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	39
126	Morphology and Composition of the Surface of Mars: Mars Odyssey THEMIS Results. <i>Science</i> , 2003, 300, 2056-2061.	6.0	368

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127	Multiple emission angle surface-atmosphere separations of thermal emission spectrometer data. Icarus, 2003, 161, 47-65.	1.1	110
128	Stationary planetary waves in the atmosphere of Mars during southern winter. Journal of Geophysical Research, 2003, 108, .	3.3	44
129	Thermal Emission Imaging System (THEMIS) infrared observations of atmospheric dust and water ice cloud optical depth. Journal of Geophysical Research, 2003, 108, .	3.3	55
130	The annual cycle of water vapor on Mars as observed by the Thermal Emission Spectrometer. Journal of Geophysical Research, 2002, 107, 25-1-25-19.	3.3	272
131	Traveling waves in the Northern Hemisphere of Mars. Geophysical Research Letters, 2002, 29, 29-1-29-4.	1.5	72
132	Thermal Emission Spectrometer Observations of Martian Planet-Encircling Dust Storm 2001A. Icarus, 2002, 157, 259-263.	1.1	139
133	Observations of Martian ice clouds by the Mars Global Surveyor Thermal Emission Spectrometer: The first Martian year. Journal of Geophysical Research, 2001, 106, 12325-12338.	3.3	114
134	Thermal Emission Spectrometer results: Mars atmospheric thermal structure and aerosol distribution. Journal of Geophysical Research, 2001, 106, 23929-23945.	3.3	225
135	Mars Global Surveyor Thermal Emission Spectrometer experiment: Investigation description and surface science results. Journal of Geophysical Research, 2001, 106, 23823-23871.	3.3	903
136	One Martian year of atmospheric observations by the thermal emission spectrometer. Geophysical Research Letters, 2001, 28, 4263-4266.	1.5	74
137	An intercomparison of ground-based millimeter, MGS TES, and Viking atmospheric temperature measurements: Seasonal and interannual variability of temperatures and dust loading in the global Mars atmosphere. Journal of Geophysical Research, 2000, 105, 9553-9571.	3.3	340
138	Detection of crystalline hematite mineralization on Mars by the Thermal Emission Spectrometer: Evidence for near-surface water. Journal of Geophysical Research, 2000, 105, 9623-9642.	3.3	427
139	Spectral data set factor analysis and end-member recovery: Application to analysis of Martian atmospheric particulates. Journal of Geophysical Research, 2000, 105, 9573-9587.	3.3	132
140	Mars Global Surveyor Thermal Emission Spectrometer (TES) observations: Atmospheric temperatures during aerobraking and science phasing. Journal of Geophysical Research, 2000, 105, 9509-9519.	3.3	198
141	Mars Global Surveyor Thermal Emission Spectrometer (TES) observations of dust opacity during aerobraking and science phasing. Journal of Geophysical Research, 2000, 105, 9539-9552.	3.3	144
142	Separation of atmospheric and surface spectral features in Mars Global Surveyor Thermal Emission Spectrometer (TES) spectra. Journal of Geophysical Research, 2000, 105, 9589-9607.	3.3	148
143	The Structure of the Upper Atmosphere of Mars: In Situ Accelerometer Measurements from Mars Global Surveyor. Science, 1998, 279, 1672-1676.	6.0	234
144	Retrieval of Atmospheric Temperatures in the Martian Planetary Boundary Layer Using Upward-Looking Infrared Spectra. Icarus, 1996, 124, 586-597.	1.1	12