

Michael Mendillo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119
papers

3,537
citations

36
h-index

54
g-index

122
ext. papers

3,897
ext. citations

6.4
avg, IF

5.31
L-index

#	Paper	IF	Citations
119	On the Altitude Patterns of Photo-Chemical-Equilibrium in the Martian Ionosphere: A Special Role for Electron Temperature. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126,	2.6	2
118	Long-Term Observations and Physical Processes in the Moon's Extended Sodium Tail. <i>Journal of Geophysical Research E: Planets</i> , 2021 , 126, e2020JE006671	4.1	3
117	The ionosphere of Mars from solar minimum to solar maximum: Dayside electron densities from MAVEN and Mars Global Surveyor radio occultations. <i>Icarus</i> , 2021 , 114508	3.8	2
116	The Martian ionosphere at solar minimum: Empirical model validation using MAVEN ROSE data. <i>Icarus</i> , 2021 , 114609	3.8	
115	The ionosphere of Venus: Strongest control by photo-chemical-equilibrium in the solar system, with implications for exospheric temperatures. <i>Icarus</i> , 2020 , 349, 113870	3.8	1
114	The future of the ionosphere (according to us) 2020 , 313-315		
113	Simultaneous Observations of SAR Arc and Its Ionospheric Response at Subauroral Conjugate Points (L ₂ 2.5) During the St. Patrick's Day Storm in 2015. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027321	2.6	4
112	SIMBIO-SYS: Scientific Cameras and Spectrometer for the BepiColombo Mission. <i>Space Science Reviews</i> , 2020 , 216, 1	7.5	24
111	The MAVEN Radio Occultation Science Experiment (ROSE). <i>Space Science Reviews</i> , 2020 , 216, 1	7.5	12
110	Mesospheric Gravity Wave Momentum Flux Associated With a Large Thunderstorm Complex. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD033381	4.4	3
109	Mars' Ionopause: A Matter of Pressures. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028145	2.6	14
108	First Conjugate Observations of Medium-Scale Traveling Ionospheric Disturbances (MSTIDs) in the Europe-Africa Longitude Sector. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 2213-2222	2.6	12
107	First Ground-Based Conjugate Observations of Stable Auroral Red (SAR) Arcs. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 4658-4671	2.6	7
106	The ionospheres of planets and exoplanets. <i>Astronomy and Geophysics</i> , 2019 , 60, 1.25-1.30	0.2	3
105	Modeling Stable Auroral Red (SAR) Arcs at Geomagnetic Conjugate Points: Implications for Hemispheric Asymmetries in Heat Fluxes. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 6330-6342	2.6	7
104	Atmospheric Waves and Their Possible Effect on the Thermal Structure of Saturn's Thermosphere. <i>Geophysical Research Letters</i> , 2019 , 46, 2372-2380	4.9	15
103	First Ionospheric Results From the MAVEN Radio Occultation Science Experiment (ROSE). <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4171-4180	2.6	21

102	Atomic oxygen ions as ionospheric biomarkers on exoplanets. <i>Nature Astronomy</i> , 2018 , 2, 287-291	12.1	6
101	Space Weather Nowcasting for Area-Denied Locations: Testing All-Sky Imaging Applications at Geomagnetic Conjugate Points. <i>Space Weather</i> , 2018 , 16, 47-56	3.7	2
100	Comparative ionospheres: Terrestrial and giant planets. <i>Icarus</i> , 2018 , 303, 34-46	3.8	3
99	Flares at Earth and Mars: An Ionospheric Escape Mechanism?. <i>Space Weather</i> , 2018 , 16, 1042-1056	3.7	5
98	Mars Initial Reference Ionosphere (MIRI) Model: Updates and Validations Using MAVEN, MEX, and MRO Data Sets. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 5674-5683	2.6	9
97	All-sky-imaging capabilities for ionospheric space weather research using geomagnetic conjugate point observing sites. <i>Advances in Space Research</i> , 2018 , 61, 1636-1651	2.4	21
96	Loss of the Martian atmosphere to space: Present-day loss rates determined from MAVEN observations and integrated loss through time. <i>Icarus</i> , 2018 , 315, 146-157	3.8	136
95	MAVEN and the total electron content of the Martian ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 3526-3537	2.6	10
94	Characterization of a Double Mesospheric Bore Over Europe. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9738-9750	2.6	13
93	The First Use of Coordinated Ionospheric Radio and Optical Observations Over Italy: Convergence of High-and Low-Latitude Storm-Induced Effects. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,794-11,806	2.6	6
92	The Total Electron Content of the Martian Ionosphere From MRO/SHARAD Observations. <i>Journal of Geophysical Research E: Planets</i> , 2017 , 122, 2182-2192	4.1	5
91	Sources of Ionospheric Variability at Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9670-9684	3.3	33
90	Comparative aeronomy: Molecular ionospheres at Earth and Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 10,269-10,288	2.6	6
89	A stable auroral red (SAR) arc with multiple emission features. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 10,564	2.6	10
88	SAR arcs we have seen: Evidence for variability in stable auroral red arcs. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 245-262	2.6	21
87	Reply to comment by Kil et al. on "The night when the auroral and equatorial ionospheres converged". <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 10,608-10,613	2.6	2
86	Interpreting Mars ionospheric anomalies over crustal magnetic field regions using a 2-D ionospheric model. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 766-777	2.6	37
85	Why the Viking descent probes found only one ionospheric layer at Mars. <i>Geophysical Research Letters</i> , 2015 , 42, 7359-7365	4.9	9

84	All-sky imaging of transglobal thermospheric gravity waves generated by the March 2011 Tohoku Earthquake. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 10,992	2.6	14
83	The equivalent slab thickness of Mars' ionosphere: Implications for thermospheric temperature. <i>Geophysical Research Letters</i> , 2015 , 42, 3560-3568	4.9	8
82	MAVEN and the Mars Initial Reference Ionosphere model. <i>Geophysical Research Letters</i> , 2015 , 42, 9080-9086	4.9	13
81	The night when the auroral and equatorial ionospheres converged. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 8085-8095	2.6	15
80	Numerical simulations of ion and electron temperatures in the ionosphere of Mars: Multiple ions and diurnal variations. <i>Icarus</i> , 2014 , 227, 78-88	3.8	53
79	Are ionospheric storms the same during different solar cycles?. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 6795-6805	2.6	6
78	Variability in ionospheric total electron content at Mars. <i>Planetary and Space Science</i> , 2013 , 86, 117-129	2	14
77	Comet Giacobini-Zinner: Comparison of a Post-Encounter Image with In-Situ and Groundbased Observations. <i>Special Publications</i> , 2013 , 880-883		
76	The composition of Mars' topside ionosphere: Effects of hydrogen. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 2681-2693	2.6	48
75	Imaging space weather over Europe. <i>Space Weather</i> , 2013 , 11, 69-78	3.7	11
74	Imaging magnetospheric boundaries at ionospheric heights. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 7294-7305	2.6	13
73	A new semiempirical model of the peak electron density of the Martian ionosphere. <i>Geophysical Research Letters</i> , 2013 , 40, 5361-5365	4.9	29
72	Escape rates and variability constraints for high-energy sodium sources at Mercury. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		21
71	All-sky imaging observations of conjugate medium-scale traveling ionospheric disturbances in the American sector. <i>Journal of Geophysical Research</i> , 2011 , 116,		28
70	Response of Saturn's auroral ionosphere to electron precipitation: Electron density, electron temperature, and electrical conductivity. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		48
69	Modeling Mars' ionosphere with constraints from same-day observations by Mars Global Surveyor and Mars Express. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		57
68	Seasonal dependence of MSTIDs obtained from 630.0 nm airglow imaging at Arecibo. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	64
67	Latitudinal variations in Saturn's ionosphere: Cassini measurements and model comparisons. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		52

66	The Appearance of the Medicean Moons in 17th Century Charts and Books How Long Did It Take?. <i>Proceedings of the International Astronomical Union</i> , 2010 , 6, 33-41	0.1	
65	The sodium tail of the Moon. <i>Icarus</i> , 2009 , 204, 409-417	3.8	25
64	The Use of Small Telescopes for Spectral Imaging of Low-light-level Extended Atmospheres in the Solar System. <i>Earth, Moon and Planets</i> , 2009 , 105, 107-113	0.6	6
63	Day-by-day modelling of the ionospheric F2-layer for year 2002. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009 , 71, 848-856	2	21
62	Brightening of 630.0 nm equatorial spread-F airglow depletions. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		28
61	Evidence of mesospheric gravity-waves generated by orographic forcing in the troposphere. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	45
60	Solar primary and secondary ionization at Saturn. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		43
59	Imaging the sources and full extent of the sodium tail of the planet Mercury. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	32
58	Midlatitude Ionospheric Dynamics and Disturbances: Introduction. <i>Geophysical Monograph Series</i> , 2008 , 1-7	1.1	4
57	Plasma temperatures in Saturn's ionosphere. <i>Journal of Geophysical Research</i> , 2008 , 113,		35
56	Physical characteristics and occurrence rates of meteoric plasma layers detected in the Martian ionosphere by the Mars Global Surveyor Radio Science Experiment. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		57
55	Man-made space weather. <i>Space Weather</i> , 2008 , 6, n/a-n/a	3.7	24
54	Solar System Ionospheres. <i>Space Science Reviews</i> , 2008 , 139, 235-265	7.5	41
53	Are plasma depletions in Saturn's ionosphere a signature of time-dependent water input?. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	29
52	A very bright SAR arc: implications for extreme magnetosphere-ionosphere coupling. <i>Annales Geophysicae</i> , 2007 , 25, 2593-2608	2	37
51	The sources of sodium escaping from Io revealed by spectral high definition imaging. <i>Nature</i> , 2007 , 448, 330-2	50.4	17
50	Equatorial spread F-related airglow depletions at Arecibo and conjugate observations. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		34
49	Effects of solar flares on the ionosphere of Mars. <i>Science</i> , 2006 , 311, 1135-8	33.3	103

48	Characterization of exceptionally strong mesospheric wave events using all-sky and zenith airglow observations. <i>Journal of Geophysical Research</i> , 2006 , 111,		23
47	Magnetospheric influence on the Moon's exosphere. <i>Journal of Geophysical Research</i> , 2006 , 111,		38
46	Day-to-day variability of the E layer. <i>Journal of Geophysical Research</i> , 2006 , 111,		20
45	Storms in the ionosphere: Patterns and processes for total electron content. <i>Reviews of Geophysics</i> , 2006 , 44,	23.1	316
44	Total electron content: Synthesis of past storm studies and needed future work. <i>Radio Science</i> , 2006 , 41,	1.4	30
43	Cassini radio occultations of Saturn's ionosphere: Model comparisons using a constant water flux. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	44
42	Effects of ring shadowing on the detection of electrostatic discharges at Saturn. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	17
41	Ionospheric contribution to Saturn's inner plasmasphere. <i>Journal of Geophysical Research</i> , 2005 , 110,		6
40	Ionospheric characteristics above Martian crustal magnetic anomalies. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	62
39	Response of peak electron densities in the martian ionosphere to day-to-day changes in solar flux due to solar rotation. <i>Planetary and Space Science</i> , 2005 , 53, 1401-1418	2	58
38	Observations and modeling of the coupled latitude-altitude patterns of equatorial plasma depletions. <i>Journal of Geophysical Research</i> , 2005 , 110,		32
37	Modeling of global variations and ring shadowing in Saturn's ionosphere. <i>Icarus</i> , 2004 , 172, 503-520	3.8	78
36	Ionospheric layers of Mars and Earth. <i>Planetary and Space Science</i> , 2004 , 52, 849-852	2	55
35	Ionospheric effects upon a satellite navigation system at Mars. <i>Radio Science</i> , 2004 , 39, n/a-n/a	1.4	30
34	Latitude dependence of zonal plasma drifts obtained from dual-site airglow observations. <i>Journal of Geophysical Research</i> , 2003 , 108,		71
33	A multidagnostic investigation of the mesospheric bore phenomenon. <i>Journal of Geophysical Research</i> , 2003 , 108,		69
32	The outer limits of the lunar sodium exosphere. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	14
31	Simultaneous ionospheric variability on Earth and Mars. <i>Journal of Geophysical Research</i> , 2003 , 108,		59

30	The Application of Terrestrial Aeronomy Groundbased Instruments to Planetary Studies. <i>Geophysical Monograph Series</i> , 2002 , 329-337	1.1	
29	Polarization jet events and excitation of weak SAR arcs. <i>Geophysical Research Letters</i> , 2002 , 29, 26-1	4.9	19
28	Suppression of equatorial spread F by sporadic E. <i>Journal of Geophysical Research</i> , 2002 , 107, SIA 4-1-SIA 4-5		36
27	Solar System Ionospheres. <i>Geophysical Monograph Series</i> , 2002 , 39-54	1.1	23
26	Monitoring the moon's transient atmosphere with an all-sky imager. <i>Advances in Space Research</i> , 2001 , 27, 1181-1187	2.4	15
25	The 1999 Quadrantids and the lunar Na atmosphere. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001 , 327, 244-248	4.3	20
24	The application of GPS observations to equatorial aeronomy. <i>Radio Science</i> , 2000 , 35, 885-904	1.4	90
23	Equatorial F region irregularity morphology during an equinoctial month at solar minimum. <i>Space Science Reviews</i> , 1999 , 87, 357-386	7.5	8
22	Lunam 2000 (Lunar Atmosphere Mission). <i>Earth, Moon and Planets</i> , 1999 , 85/86, 487-495	0.6	
21	The Atmosphere Of The Moon. <i>Earth, Moon and Planets</i> , 1999 , 85/86, 271-277	0.6	4
20	Observational Test for the Solar Wind Sputtering Origin of the Moon's Extended Sodium Atmosphere. <i>Icarus</i> , 1999 , 137, 13-23	3.8	63
19	Modeling an enhancement of the lunar sodium tail during the Leonid Meteor Shower of 1998. <i>Geophysical Research Letters</i> , 1999 , 26, 1645-1648	4.9	47
18	Discovery of the distant lunar sodium tail and its enhancement following the Leonid Meteor Shower of 1998. <i>Geophysical Research Letters</i> , 1999 , 26, 1649-1652	4.9	73
17	Three tails of comet Hale-Bopp. <i>Geophysical Research Letters</i> , 1998 , 25, 225-228	4.9	27
16	GPS phase fluctuations in the equatorial region during sunspot minimum. <i>Radio Science</i> , 1997 , 32, 1535-1550	1.5	79
15	Modeling the Moon's extended sodium cloud as a tool for investigating sources of transient atmospheres. <i>Advances in Space Research</i> , 1997 , 19, 1577-1586	2.4	18
14	Constraints on the origin of the Moon's atmosphere from observations during a lunar eclipse. <i>Nature</i> , 1995 , 377, 404-6	50.4	48
13	Simulations of the lunar sodium atmosphere. <i>Journal of Geophysical Research</i> , 1995 , 100, 23271		24

12	A Picture of the Moon's Atmosphere. <i>Science</i> , 1993 , 261, 184-6	33.3	43
11	Imaging observations of the extended sodium atmosphere of the Moon. <i>Geophysical Research Letters</i> , 1991 , 18, 2097-2100	4.9	47
10	The extended sodium nebula of Jupiter. <i>Nature</i> , 1990 , 348, 312-314	50.4	78
9	Optical observations of the AMPTE artificial comet from the Northern Hemisphere. <i>Nature</i> , 1986 , 320, 704-708	50.4	25
8	Simulation studies of ionospheric airglow signatures of plasma depletions at the equator. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1985 , 47, 885-893		18
7	Preliminary report on the HEAO hole in the ionosphere. <i>Eos</i> , 1980 , 61, 529	1.5	17
6	Opportunity to observe a large-scale hole in the ionosphere. <i>Eos</i> , 1979 , 60, 513	1.5	9
5	Low frequency radio astronomy through an artificially created ionospheric window. <i>Nature</i> , 1975 , 255, 42-44	50.4	15
4	Behavior of the ionospheric F region during the Great Solar Flare of August 7, 1972. <i>Journal of Geophysical Research</i> , 1974 , 79, 665-672		76
3	Incoherent scatter observations of the ionospheric response to a large solar flare. <i>Radio Science</i> , 1974 , 9, 197-203	1.4	45
2	Ionospheric Total Electron Content Behaviour during Geomagnetic Storms. <i>Nature: Physical Science</i> , 1971 , 234, 23-24		8
1	Mars's plasma system. Scientific potential of coordinated multipoint missions: The next generation. <i>Experimental Astronomy</i> , 1	1.3	3