

# Yingjuan

## 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.

79  
papers

3,174  
citations

31  
h-index

54  
g-index

82  
ext. papers

3,562  
ext. citations

4.8  
avg, IF

4.68  
L-index

#	Paper	IF	Citations
79	Magnetic Topology at Venus: New Insights Into the Venus Plasma Environment. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL095545	4.9	0
78	Formation and Evolution of the Large-Scale Magnetic Fields in Venus' Ionosphere: Results From a Three Dimensional Global Multispecies MHD Model. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL087593	4.9	6
77	Characterizing Mars's Magnetotail Topology With Respect to the Upstream Interplanetary Magnetic Fields. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, no	2.6	10
76	Effects of Global and Regional Dust Storms on the Martian Hot O Corona and Photochemical Loss. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027115	2.6	7
75	Variability of the Solar Wind Flow Asymmetry in the Martian Magnetosheath Observed by MAVEN. <i>Geophysical Research Letters</i> , <b>2020</b> , 47,	4.9	3
74	Mars Dust Storm Effects in the Ionosphere and Magnetosphere and Implications for Atmospheric Carbon Loss. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, no	2.6	12
73	Tidal Effects on the Longitudinal Structures of the Martian Thermosphere and Topside Ionosphere Observed by MAVEN. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 126, e2020JA028562	2.6	4
72	Modeling Wind-Driven Ionospheric Dynamo Currents at Mars: Expectations for InSight Magnetic Field Measurements. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 5083-5091	4.9	10
71	Mars Upper Atmospheric Responses to the 10 September 2017 Solar Flare: A Global, Time-Dependent Simulation. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 9334-9343	4.9	9
70	Importance of Ambipolar Electric Field in Driving Ion Loss From Mars: Results From a Multifluid MHD Model With the Electron Pressure Equation Included. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 9040-9057	2.6	10
69	Variability of Precipitating Ion Fluxes During the September 2017 Event at Mars. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 420-432	2.6	5
68	Magnetic Reconnection on Dayside Crustal Magnetic Fields at Mars: MAVEN Observations. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 4550-4558	4.9	20
67	The Morphology of the Solar Wind Magnetic Field Draping on the Dayside of Mars and Its Variability. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 3356-3365	4.9	22
66	The Twisted Configuration of the Martian Magnetotail: MAVEN Observations. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 4559-4568	4.9	38
65	Responses of the Martian Magnetosphere to an Interplanetary Coronal Mass Ejection: MAVEN Observations and LatHyS Results. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 7891-7900	4.9	13
64	Reconnection in the Martian Magnetotail: Hall-MHD With Embedded Particle-in-Cell Simulations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 3742-3763	2.6	12
63	Comparison of Global Martian Plasma Models in the Context of MAVEN Observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 3714-3726	2.6	7

62	Investigation of Martian Magnetic Topology Response to 2017 September ICME. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 7337-7346	4.9	24
61	Solar Wind Interaction With the Martian Upper Atmosphere: Roles of the Cold Thermosphere and Hot Oxygen Corona. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 6639-6654	2.6	13
60	Multispecies and Multifluid MHD Approaches for the Study of Ionospheric Escape at Mars. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 7370-7383	2.6	3
59	The Impact and Solar Wind Proxy of the 2017 September ICME Event at Mars. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 7248-7256	4.9	21
58	Martian low-altitude magnetic topology deduced from MAVEN/SWEA observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 1831-1852	2.6	74
57	MAVEN and the total electron content of the Martian ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 3526-3537	2.6	10
56	Survey of magnetic reconnection signatures in the Martian magnetotail with MAVEN. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 5114-5131	2.6	25
55	Martian magnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 6185-6209	2.6	29
54	Estimates of Ionospheric Transport and Ion Loss at Mars. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 10,626-10,637	2.6	21
53	High-Altitude Closed Magnetic Loops at Mars Observed by MAVEN. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 11,229-11,238	4.9	19
52	The Mars crustal magnetic field control of plasma boundary locations and atmospheric loss: MHD prediction and comparison with MAVEN. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 4117-4137	2.6	37
51	Variations of the Martian plasma environment during the ICME passage on 8 March 2015: A time-dependent MHD study. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 1714-1730	2.6	30
50	Pressure and ion composition boundaries at Mars. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 6417-6429	2.6	19
49	Atmospheric escape from unmagnetized bodies. <i>Journal of Geophysical Research E: Planets</i> , <b>2016</b> , 121, 2364-2385	4.1	33
48	Solar control of the Martian magnetic topology: Implications from model-data comparisons. <i>Planetary and Space Science</i> , <b>2016</b> , 128, 1-13	2	3
47	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. <i>Science</i> , <b>2015</b> , 350, aad0210	33.3	131
46	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. <i>Science</i> , <b>2015</b> , 350, aad0459	33.3	77
45	Comparative pick-up ion distributions at Mars and Venus: Consequences for atmospheric deposition and escape. <i>Planetary and Space Science</i> , <b>2015</b> , 115, 35-47	2	42

44	Characterizing Atmospheric Escape from Mars Today and Through Time, with MAVEN. <i>Space Science Reviews</i> , <b>2015</b> , 195, 357-422	7.5	88
43	Response of Mars O <sup>+</sup> pickup ions to the 8 March 2015 ICME: Inferences from MAVEN data-based models. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 9095-9102	4.9	37
42	Control of Mars global atmospheric loss by the continuous rotation of the crustal magnetic field: A time-dependent MHD study. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 10,926	2.6	39
41	Multifluid MHD study of the solar wind interaction with Mars' upper atmosphere during the 2015 March 8th ICME event. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 9103-9112	4.9	45
40	MHD model results of solar wind interaction with Mars and comparison with MAVEN plasma observations. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 9113-9120	4.9	46
39	The Venus Solar wind interaction: Is it purely ionospheric?. <i>Planetary and Space Science</i> , <b>2015</b> , 119, 36-42	2	5
38	Solar wind interaction with the Martian upper atmosphere: Crustal field orientation, solar cycle, and seasonal variations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 7857-7872	2.6	43
37	Electric Mars: The first direct measurement of an upper limit for the Martian solar wind electric potential. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 9128-9134	4.9	28
36	Implications of MAVEN Mars near-wake measurements and models. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 9087-9094	4.9	28
35	Comparison of model predictions for the composition of the ionosphere of Mars to MAVEN NGIMS data. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 8966-8976	4.9	21
34	A comet engulfs Mars: MAVEN observations of comet Siding Spring's influence on the Martian magnetosphere. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 8810-8818	4.9	8
33	The spatial distribution of planetary ion fluxes near Mars observed by MAVEN. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 9142-9148	4.9	95
32	Statistical studies on Mars atmospheric sputtering by precipitating pickup O <sup>+</sup> : Preparation for the MAVEN mission. <i>Journal of Geophysical Research E: Planets</i> , <b>2015</b> , 120, 34-50	4.1	20
31	Solar wind interaction effects on the magnetic fields around Mars: Consequences for interplanetary and crustal field measurements. <i>Planetary and Space Science</i> , <b>2015</b> , 117, 15-23	2	15
30	Martian ionospheric responses to dynamic pressure enhancements in the solar wind. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 1272-1286	2.6	44
29	Solar wind interaction with Mars upper atmosphere: Results from the one-way coupling between the multifluid MHD model and the MTGCM model. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 2708-2715	4.9	53
28	Test particle comparison of heavy atomic and molecular ion distributions at Mars. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 2328-2344	2.6	18
27	Effects of crustal field rotation on the solar wind plasma interaction with Mars. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 6563-6569	4.9	63

26	Comparison of high-altitude production and ionospheric outflow contributions to O <sup>+</sup> loss at Mars. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 4093-4107	2.6	8
25	A global multispecies single-fluid MHD study of the plasma interaction around Venus. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 321-330	2.6	36
24	Simulated kinetic effects of the corona and solar cycle on high altitude ion transport at Mars. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 3700-3711	2.6	10
23	The influence of production mechanisms on pick-up ion loss at Mars. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 554-569	2.6	30
22	The importance of pickup oxygen ion precipitation to the Mars upper atmosphere under extreme solar wind conditions. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 1922-1927	4.9	38
21	Adaptive numerical algorithms in space weather modeling. <i>Journal of Computational Physics</i> , <b>2012</b> , 231, 870-903	4.1	457
20	Comparisons of Cassini flybys of the Titan magnetospheric interaction with an MHD model: Evidence for organized behavior at high altitudes. <i>Icarus</i> , <b>2012</b> , 217, 43-54	3.8	8
19	Three-dimensional, multifluid, high spatial resolution MHD model studies of the solar wind interaction with Mars. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		80
18	The importance of thermal electron heating in Titan's ionosphere: Comparison with Cassini T34 flyby. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		11
17	Unusually strong magnetic fields in Titan's ionosphere: T42 case study. <i>Advances in Space Research</i> , <b>2011</b> , 48, 314-322	2.4	11
16	Parametric analysis of modeled ion escape from Mars. <i>Icarus</i> , <b>2011</b> , 212, 131-137	3.8	10
15	A comparison of global models for the solar wind interaction with Mars. <i>Icarus</i> , <b>2010</b> , 206, 139-151	3.8	92
14	Investigation of the force balance in the Titan ionosphere: Cassini T5 flyby model/data comparisons. <i>Icarus</i> , <b>2010</b> , 210, 867-880	3.8	12
13	On the effect of the martian crustal magnetic field on atmospheric erosion. <i>Icarus</i> , <b>2010</b> , 206, 130-138	3.8	48
12	Time-dependent global MHD simulations of Cassini T32 flyby: From magnetosphere to magnetosheath. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		40
11	The magnetic memory of Titan's ionized atmosphere. <i>Science</i> , <b>2008</b> , 321, 1475-8	33.3	108
10	Hall magnetohydrodynamics on block-adaptive grids. <i>Journal of Computational Physics</i> , <b>2008</b> , 227, 6967-6984	4.1	72
9	Plasma Flow and Related Phenomena in Planetary Aeronomy. <i>Space Science Reviews</i> , <b>2008</b> , 139, 311-353	7.5	27

8	Ion escape fluxes from Mars. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	71
7	3D global multi-species Hall-MHD simulation of the Cassini T9 flyby. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	49
6	Mars Global MHD Predictions of Magnetic Connectivity Between the Dayside Ionosphere and the Magnetospheric Flanks. <i>Space Science Reviews</i> , <b>2007</b> , 126, 63-76	7.5	27
5	Numerical interpretation of high-altitude photoelectron observations. <i>Icarus</i> , <b>2006</b> , 182, 383-395	3.8	50
4	Planetary ENA imaging: Effects of different interaction models for Mars. <i>Planetary and Space Science</i> , <b>2006</b> , 54, 117-131	2	18
3	Three-dimensional, multispecies, high spatial resolution MHD studies of the solar wind interaction with Mars. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		201
2	Comparisons of electron fluxes measured in the crustal fields at Mars by the MGS magnetometer/electron reflectometer instrument with a B field-dependent transport code. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		30
1	Three-dimensional multispecies MHD studies of the solar wind interaction with Mars in the presence of crustal fields. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SMP 6-1		132