Yingjuan

List of Publications by Citations

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	Adaptive numerical algorithms in space weather modeling. *Journal of Computational Physics*, **2012**, 231, 870-903	4.1	457
78	Three-dimensional, multispecies, high spatial resolution MHD studies of the solar wind interaction with Mars. *Journal of Geophysical Research*, **2004**, 109,		201
77	Three-dimensional multispecies MHD studies of the solar wind interaction with Mars in the presence of crustal fields. *Journal of Geophysical Research*, **2002**, 107, SMP 6-1		132
76	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. *Science*, **2015**, 350, aad0210	33.3	131
75	The magnetic memory of Titan's ionized atmosphere. *Science*, **2008**, 321, 1475-8	33.3	108
74	The spatial distribution of planetary ion fluxes near Mars observed by MAVEN. *Geophysical Research Letters*, **2015**, 42, 9142-9148	4.9	95
73	A comparison of global models for the solar wind interaction with Mars. *Icarus*, **2010**, 206, 139-151	3.8	92
72	Characterizing Atmospheric Escape from Mars Today and Through Time, with MAVEN. *Space Science Reviews*, **2015**, 195, 357-422	7.5	88
71	Three-dimensional, multifluid, high spatial resolution MHD model studies of the solar wind interaction with Mars. *Journal of Geophysical Research*, **2011**, 116,		80
70	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. *Science*, **2015**, 350, aad0459	33.3	77
69	Martian low-altitude magnetic topology deduced from MAVEN/SWEA observations. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 1831-1852	2.6	74
68	Hall magnetohydrodynamics on block-adaptive grids. *Journal of Computational Physics*, **2008**, 227, 6967-6984	4.9	72
67	Ion escape fluxes from Mars. *Geophysical Research Letters*, **2007**, 34,	4.9	71
66	Effects of crustal field rotation on the solar wind plasma interaction with Mars. *Geophysical Research Letters*, **2014**, 41, 6563-6569	4.9	63
65	Solar wind interaction with Mars upper atmosphere: Results from the one-way coupling between the multifluid MHD model and the MTGCM model. *Geophysical Research Letters*, **2014**, 41, 2708-2715	4.9	53
64	Numerical interpretation of high-altitude photoelectron observations. *Icarus*, **2006**, 182, 383-395	3.8	50
63	3D global multi-species Hall-MHD simulation of the Cassini T9 flyby. *Geophysical Research Letters*, **2007**, 34,	4.9	49

62	On the effect of the martian crustal magnetic field on atmospheric erosion. *Icarus*, **2010**, 206, 130-138	3.8	48
61	MHD model results of solar wind interaction with Mars and comparison with MAVEN plasma observations. *Geophysical Research Letters*, **2015**, 42, 9113-9120	4.9	46
60	Multifluid MHD study of the solar wind interaction with Mars' upper atmosphere during the 2015 March 8th ICME event. *Geophysical Research Letters*, **2015**, 42, 9103-9112	4.9	45
59	Martian ionospheric responses to dynamic pressure enhancements in the solar wind. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 1272-1286	2.6	44
58	Solar wind interaction with the Martian upper atmosphere: Crustal field orientation, solar cycle, and seasonal variations. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 7857-7872	2.6	43
57	Comparative pick-up ion distributions at Mars and Venus: Consequences for atmospheric deposition and escape. *Planetary and Space Science*, **2015**, 115, 35-47	2	42
56	Time-dependent global MHD simulations of Cassini T32 flyby: From magnetosphere to magnetosheath. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		40
55	Control of Mars global atmospheric loss by the continuous rotation of the crustal magnetic field: A time-dependent MHD study. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 10,926	2.6	39
54	The Twisted Configuration of the Martian Magnetotail: MAVEN Observations. *Geophysical Research Letters*, **2018**, 45, 4559-4568	4.9	38
53	The importance of pickup oxygen ion precipitation to the Mars upper atmosphere under extreme solar wind conditions. *Geophysical Research Letters*, **2013**, 40, 1922-1927	4.9	38
52	The Mars crustal magnetic field control of plasma boundary locations and atmospheric loss: MHD prediction and comparison with MAVEN. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 4117-4137	2.6	37
51	Response of Mars O+ pickup ions to the 8 March 2015 ICME: Inferences from MAVEN data-based models. *Geophysical Research Letters*, **2015**, 42, 9095-9102	4.9	37
50	A global multispecies single-fluid MHD study of the plasma interaction around Venus. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 321-330	2.6	36
49	Atmospheric escape from unmagnetized bodies. *Journal of Geophysical Research E: Planets*, **2016**, 121, 2364-2385	4.1	33
48	Variations of the Martian plasma environment during the ICME passage on 8 March 2015: A time-dependent MHD study. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 1714-1730	2.6	30
47	The influence of production mechanisms on pick-up ion loss at Mars. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 554-569	2.6	30
46	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. *Journal of Geophysical Research*, **2003**, 108,		30
45	Martian magnetic storms. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 6185-6209	2.6	29

44	Electric Mars: The first direct measurement of an upper limit for the Martian polar wind electric potential. *Geophysical Research Letters*, **2015**, 42, 9128-9134	4.9	28
43	Implications of MAVEN Mars near-wake measurements and models. *Geophysical Research Letters*, **2015**, 42, 9087-9094	4.9	28
42	Mars Global MHD Predictions of Magnetic Connectivity Between the Dayside Ionosphere and the Magnetospheric Flanks. *Space Science Reviews*, **2007**, 126, 63-76	7.5	27
41	Plasma Flow and Related Phenomena in Planetary Aeronomy. *Space Science Reviews*, **2008**, 139, 311-353	7.5	27
40	Survey of magnetic reconnection signatures in the Martian magnetotail with MAVEN. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 5114-5131	2.6	25
39	Investigation of Martian Magnetic Topology Response to 2017 September ICME. *Geophysical Research Letters*, **2018**, 45, 7337-7346	4.9	24
38	The Morphology of the Solar Wind Magnetic Field Draping on the Dayside of Mars and Its Variability. *Geophysical Research Letters*, **2018**, 45, 3356-3365	4.9	22
37	Estimates of Ionospheric Transport and Ion Loss at Mars. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 10,626-10,637	2.6	21
36	Comparison of model predictions for the composition of the ionosphere of Mars to MAVEN NGIMS data. *Geophysical Research Letters*, **2015**, 42, 8966-8976	4.9	21
35	The Impact and Solar Wind Proxy of the 2017 September ICME Event at Mars. *Geophysical Research Letters*, **2018**, 45, 7248-7256	4.9	21
34	Magnetic Reconnection on Dayside Crustal Magnetic Fields at Mars: MAVEN Observations. *Geophysical Research Letters*, **2018**, 45, 4550-4558	4.9	20
33	Statistical studies on Mars atmospheric sputtering by precipitating pickup O+: Preparation for the MAVEN mission. *Journal of Geophysical Research E: Planets*, **2015**, 120, 34-50	4.1	20
32	High-Altitude Closed Magnetic Loops at Mars Observed by MAVEN. *Geophysical Research Letters*, **2017**, 44, 11,229-11,238	4.9	19
31	Pressure and ion composition boundaries at Mars. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 6417-6429	2.6	19
30	Test particle comparison of heavy atomic and molecular ion distributions at Mars. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 2328-2344	2.6	18
29	Planetary ENA imaging: Effects of different interaction models for Mars. *Planetary and Space Science*, **2006**, 54, 117-131	2	18
28	Solar wind interaction effects on the magnetic fields around Mars: Consequences for interplanetary and crustal field measurements. *Planetary and Space Science*, **2015**, 117, 15-23	2	15
27	Responses of the Martian Magnetosphere to an Interplanetary Coronal Mass Ejection: MAVEN Observations and LatHyS Results. *Geophysical Research Letters*, **2018**, 45, 7891-7900	4.9	13

26	Solar Wind Interaction With the Martian Upper Atmosphere: Roles of the Cold Thermosphere and Hot Oxygen Corona. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 6639-6654	2.6	13
25	Investigation of the force balance in the Titan ionosphere: Cassini T5 flyby model/data comparisons. *Icarus*, **2010**, 210, 867-880	3.8	12
24	Mars Dust Storm Effects in the Ionosphere and Magnetosphere and Implications for Atmospheric Carbon Loss. *Journal of Geophysical Research: Space Physics*, **2020**, 125, no	2.6	12
23	Reconnection in the Martian Magnetotail: Hall-MHD With Embedded Particle-in-Cell Simulations. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 3742-3763	2.6	12
22	The importance of thermal electron heating in Titan's ionosphere: Comparison with Cassini T34 flyby. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		11
21	Unusually strong magnetic fields in Titan□ ionosphere: T42 case study. *Advances in Space Research*, **2011**, 48, 314-322	2.4	11
20	MAVEN and the total electron content of the Martian ionosphere. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 3526-3537	2.6	10
19	Characterizing Mars's Magnetotail Topology With Respect to the Upstream Interplanetary Magnetic Fields. *Journal of Geophysical Research: Space Physics*, **2020**, 125, no	2.6	10
18	Modeling Wind-Driven Ionospheric Dynamo Currents at Mars: Expectations for InSight Magnetic Field Measurements. *Geophysical Research Letters*, **2019**, 46, 5083-5091	4.9	10
17	Importance of Ambipolar Electric Field in Driving Ion Loss From Mars: Results From a Multifluid MHD Model With the Electron Pressure Equation Included. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 9040-9057	2.6	10
16	Simulated kinetic effects of the corona and solar cycle on high altitude ion transport at Mars. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 3700-3711	2.6	10
15	Parametric analysis of modeled ion escape from Mars. *Icarus*, **2011**, 212, 131-137	3.8	10
14	Mars Upper Atmospheric Responses to the 10 September 2017 Solar Flare: A Global, Time-Dependent Simulation. *Geophysical Research Letters*, **2019**, 46, 9334-9343	4.9	9
13	Comparison of high-altitude production and ionospheric outflow contributions to O+ loss at Mars. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 4093-4107	2.6	8
12	A comet engulfs Mars: MAVEN observations of comet Siding Spring's influence on the Martian magnetosphere. *Geophysical Research Letters*, **2015**, 42, 8810-8818	4.9	8
11	Comparisons of Cassini flybys of the Titan magnetospheric interaction with an MHD model: Evidence for organized behavior at high altitudes. *Icarus*, **2012**, 217, 43-54	3.8	8
10	Effects of Global and Regional Dust Storms on the Martian Hot O Corona and Photochemical Loss. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027115	2.6	7
9	Comparison of Global Martian Plasma Models in the Context of MAVEN Observations. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 3714-3726	2.6	7

8	Formation and Evolution of the Large-Scale Magnetic Fields in Venus' Ionosphere: Results From a Three Dimensional Global Multispecies MHD Model. *Geophysical Research Letters*, **2020**, 47, e2020GL087593	4.9	6
7	The Venus□olar wind interaction: Is it purely ionospheric?. *Planetary and Space Science*, **2015**, 119, 36-42	2	5
6	Variability of Precipitating Ion Fluxes During the September 2017 Event at Mars. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 420-432	2.6	5
5	Tidal Effects on the Longitudinal Structures of the Martian Thermosphere and Topside Ionosphere Observed by MAVEN. *Journal of Geophysical Research: Space Physics*, **2020**, 126, e2020JA028562	2.6	4
4	Variability of the Solar Wind Flow Asymmetry in the Martian Magnetosheath Observed by MAVEN. *Geophysical Research Letters*, **2020**, 47,	4.9	3
3	Solar control of the Martian magnetic topology: Implications from model-data comparisons. *Planetary and Space Science*, **2016**, 128, 1-13	2	3
2	Multispecies and Multifluid MHD Approaches for the Study of Ionospheric Escape at Mars. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 7370-7383	2.6	3
1	Magnetic Topology at Venus: New Insights Into the Venus Plasma Environment. *Geophysical Research Letters*, **2021**, 48, e2021GL095545	4.9	0