

# Yiding Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

76  
papers

1,649  
citations

279487

23  
h-index

329751

37  
g-index

81  
all docs

81  
docs citations

81  
times ranked

1141  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar activity effects of the ionosphere: A brief review. Science Bulletin, 2011, 56, 1202-1211.	1.7	168
2	Statistical analysis of solar activity variations of total electron content derived at Jet Propulsion Laboratory from GPS observations. Journal of Geophysical Research, 2009, 114, .	3.3	93
3	Does the $F_{10.7}$ index correctly describe solar EUV flux during the deep solar minimum of 2007-2009?. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	73
4	Features of the middle- and low-latitude ionosphere during solar minimum as revealed from COSMIC radio occultation measurements. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	72
5	The ionosphere under extremely prolonged low solar activity. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	61
6	Effects of disturbed electric fields in the low-latitude and equatorial ionosphere during the 2015 St. Patrick's Day storm. Journal of Geophysical Research: Space Physics, 2016, 121, 9111-9126.	0.8	60
7	GPS TEC response to the 22 July 2009 total solar eclipse in East Asia. Journal of Geophysical Research, 2010, 115, .	3.3	52
8	A case study of postmidnight enhancement in F-layer electron density over Sanya of China. Journal of Geophysical Research: Space Physics, 2013, 118, 4640-4648.	0.8	51
9	Statistical analysis of ionospheric responses to solar flares in the solar cycle 23. Journal of Geophysical Research: Space Physics, 2013, 118, 576-582.	0.8	46
10	Solar activity variations of nighttime ionospheric peak electron density. Journal of Geophysical Research, 2008, 113, .	3.3	43
11	Equinoctial asymmetry of ionospheric vertical plasma drifts and its effect on F-region plasma density. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	42
12	Solar activity dependence of the topside ionosphere at low latitudes. Journal of Geophysical Research, 2009, 114, .	3.3	35
13	Further study on the solar activity variation of daytime $N_m F_2$ . Journal of Geophysical Research, 2010, 115, .	3.3	34
14	Ionospheric response to the X-class solar flare on 7 September 2005. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	33
15	Development of a middle and low latitude theoretical ionospheric model and an observation system data assimilation experiment. Science Bulletin, 2008, 53, 94-101.	1.7	30
16	Equatorial ionospheric electrodynamics during solar flares. Geophysical Research Letters, 2017, 44, 4558-4565.	1.5	30
17	Equatorial ionization anomaly in the low-latitude topside ionosphere: Local time evolution and longitudinal difference. Journal of Geophysical Research: Space Physics, 2016, 121, 7166-7182.	0.8	27
18	Comparative study of the equatorial ionosphere over Jicamarca during recent two solar minima. Journal of Geophysical Research, 2012, 117, .	3.3	26

#	ARTICLE	IF	CITATIONS
19	The discrepancy in solar EUV- $\epsilon$ proxy correlations on solar cycle and solar rotation timescales and its manifestation in the ionosphere. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	25
20	Modeling study of nighttime enhancements in $F_2$ region electron density at low latitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6648-6656.	0.8	25
21	Geomagnetic activity effect on the global ionosphere during the 2007-2009 deep solar minimum. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 3747-3754.	0.8	25
22	$mF_2$ enhancement during ionospheric $F_2$ region nighttime: A statistical analysis based on COSMIC observations during the 2007-2009 solar minimum. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 10083-10095.	0.8	24
23	Regional differences of the ionospheric response to the July 2012 geomagnetic storm. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4654-4668.	0.8	23
24	The Storm Time Evolution of the Ionospheric Disturbance Plasma Drifts. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,665.	0.8	23
25	The global distribution of the dusk-to-nighttime enhancement of summer $mF_2$ at solar minimum. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7914-7922.	0.8	22
26	The latitudinal structure of nighttime ionospheric TEC and its empirical orthogonal functions model over North American sector. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 963-977.	0.8	22
27	Observations and modeling of the ionospheric behaviors over the east Asia zone during the 22 July 2009 solar eclipse. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	21
28	The long-duration positive storm effects in the equatorial ionosphere over Jicamarca. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1311-1324.	0.8	21
29	A global picture of ionospheric slab thickness derived from GIM TEC and COSMIC radio occultation observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 867-880.	0.8	21
30	Mesospheric temperatures estimated from the meteor radar observations at Mohe, China. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2249-2259.	0.8	21
31	The dawn enhancement of the equatorial ionospheric vertical plasma drift. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 10,688.	0.8	20
32	Equatorial Ionospheric Electrodynamics Over Jicamarca During the 6-11 September 2017 Space Weather Event. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1292-1306.	0.8	19
33	Multiple Technique Observations of the Ionospheric Responses to the 21 June 2020 Solar Eclipse. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028450.	0.8	19
34	A modeling study of global ionospheric and thermospheric responses to extreme solar flare. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 832-840.	0.8	18
35	How does ionospheric TEC vary if solar EUV irradiance continuously decreases?. <i>Earth, Planets and Space</i> , 2014, 66, .	0.9	17
36	Evidence and effects of the sunrise enhancement of the equatorial vertical plasma drift in the $F_1$ region ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4826-4834.	0.8	17

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37	Variations of the meteor echo heights at Beijing and Mohe, China. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1117-1127.	0.8	16
38	Effects of the 21 June 2020 Solar Eclipse on Conjugate Hemispheres: A Modeling Study. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028344.	0.8	14
39	Longitudinal Structure of the Midlatitude Ionosphere Using COSMIC Electron Density Profiles. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8766-8777.	0.8	13
40	Nighttime electron density enhancements at middle and low latitudes in East Asia. <i>Science China Earth Sciences</i> , 2015, 58, 551-561.	2.3	12
41	New Features of the Enhancements in Electron Density at Low Latitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027539.	0.8	12
42	Empirical modeling of ionospheric F2 layer critical frequency over Wakkanai under geomagnetic quiet and disturbed conditions. <i>Science China Technological Sciences</i> , 2012, 55, 1169-1177.	2.0	11
43	Discrepant responses of the global electron content to the solar cycle and solar rotation variations of EUV irradiance. <i>Earth, Planets and Space</i> , 2015, 67, .	0.9	11
44	A Statistical Study on the Winter Ionospheric Nighttime Enhancement at Middle Latitudes in the Northern Hemisphere. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027950.	0.8	11
45	Interhemispheric Transport of the Ionospheric $F_2$ Region Plasma During the 2009 Sudden Stratosphere Warming. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087078.	1.5	11
46	Deriving the effective scale height in the topside ionosphere based on ionosonde and satellite in situ observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8472-8482.	0.8	10
47	An empirical model of the topside plasma density around 600 km based on ROCSAT-1 and Hinotori observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4052-4063.	0.8	10
48	Equatorial North-South Difference of Noontime Electron Density $B_{\text{out}}$ in the $F_2$ Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028124.	0.8	10
49	A Case Study of the Enhancements in Ionospheric Electron Density and Its Longitudinal Gradient at Chinese Low Latitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027751.	0.8	10
50	$\hat{h}'_p$ Chapman Scale Height: Longitudinal Variation and Global Modeling. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2083-2098.	0.8	9
51	Latitudinal Dependence of Daytime Electron Density $B_{\text{out}}$ in the Ionospheric $F_2$ Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	9
52	A Global Empirical Model of Electron Density Profile in the F Region Ionosphere Basing on COSMIC Measurements. <i>Space Weather</i> , 2021, 19, e2020SW002642.	1.3	9
53	Modeling the global $N_m F_2$ from the GNSS-derived TEC-GIMs. <i>Space Weather</i> , 2013, 11, 272-283.	1.3	8
54	Responses of Solar Irradiance and the Ionosphere to an Intense Activity Region. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2116-2126.	0.8	8

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55	Trapped and Accelerated Electrons Within a Magnetic Mirror Behind a Flux Rope on the Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3993-4008.	0.8	8
56	Unexpected Regional Zonal Structures in Low Latitude Ionosphere Call for a High Longitudinal Resolution of the Global Ionospheric Maps. <i>Remote Sensing</i> , 2022, 14, 2315.	1.8	8
57	The effect of zonal wind reversal around sunset on ionospheric interhemispheric asymmetry at March equinox of a solar maximum year 2000. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4726-4735.	0.8	7
58	Variations of Thermospheric Winds Observed by a Fabry-Perot Interferometer at Mohe, China. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028655.	0.8	7
59	Equatorial Ionospheric Disturbance Field-Aligned Plasma Drifts Observed by C/NOFS. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4192-4201.	0.8	6
60	New Aspects of the Ionospheric Behavior Over Millstone Hill During the 30-Day Incoherent Scatter Radar Experiment in October 2002. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6288-6295.	0.8	6
61	Ionospheric Topside Diffusive Flux and the Formation of Summer Nighttime Ionospheric Electron Density Enhancement Over Millstone Hill. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	6
62	Longitudinal Differences in Electron Temperature on Both Sides of Zero Declination Line in the Mid-Latitude Topside Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028471.	0.8	5
63	Daytime Ionospheric Large-Scale Plasma Density Depletion Structures Detected at Low Latitudes Under Relatively Quiet Geomagnetic Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	5
64	Concurrent effects of Martian topography on the thermosphere and ionosphere at high northern latitudes. <i>Earth, Planets and Space</i> , 2022, 74, .	0.9	5
65	Responding trends of ionospheric $F_2$ -layer to weaker geomagnetic activities. <i>Journal of Space Weather and Space Climate</i> , 2022, 12, 6.	1.1	5
66	A New Global Ionospheric Electron Density Model Based on Grid Modeling Method. <i>Space Weather</i> , 2022, 20, .	1.3	5
67	Occurrence of Ionospheric Equatorial Ionization Anomaly at 840 km Height Observed by the DMSP Satellites at Solar Maximum Dusk. <i>Space Weather</i> , 2021, 19, e2020SW002690.	1.3	4
68	Ionospheric Nighttime Enhancements at Low Latitudes Challenge Performance of the Global Ionospheric Maps. <i>Remote Sensing</i> , 2022, 14, 1088.	1.8	4
69	Whistler Wings and Reflected Particles During Solar Wind Interaction of Lunar Magnetic Anomalies. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092425.	1.5	3
70	A Meandering Lunar Wake Produced by the Pickup of Reflected Solar Wind Ions. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	3
71	Westward Electric Fields in the Afternoon Equatorial Ionosphere During Geomagnetically Quiet Times. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028532.	0.8	2
72	ULF Fluctuation of Low-Latitude Ionospheric Electric Fields During Sudden Commencements. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	2

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73	A New Method for Retrieving Electron Density Profiles from the MARSIS Ionograms. Remote Sensing, 2022, 14, 1817.	1.8	1
74	Interhemispheric conjugate effect in longitude variations of mid-latitude ion density. Journal of Space Weather and Space Climate, 2019, 9, A40.	1.1	0
75	Extreme Enhancements of Electron Temperature in Low Latitude Topside Ionosphere During the October 2016 Storm. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	0
76	The north-south asymmetry of Martian ionosphere and thermosphere. Journal of Geophysical Research E: Planets, 0, , .	1.5	0