

# Charles C H Lin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1895370/publications.pdf>

Version: 2024-02-01

98  
papers

3,862  
citations

117625

34  
h-index

138484

58  
g-index

107  
all docs

107  
docs citations

107  
times ranked

1774  
citing authors

#	ARTICLE	IF	CITATIONS
1	Seismoionospheric GPS total electron content anomalies observed before the 12 May 2008 <i>M<sub>w</sub></i> 7.9 Wenchuan earthquake. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	235
2	Theoretical study of the low- and midlatitude ionospheric electron density enhancement during the October 2003 superstorm: Relative importance of the neutral wind and the electric field. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	185
3	Ionospheric disturbances triggered by the 11 March 2011 <i>M<sub>w</sub></i> 9.0 Tohoku earthquake. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	173
4	Motions of the equatorial ionization anomaly crests imaged by FORMOSAT-3/COSMIC. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	161
5	Plausible effect of atmospheric tides on the equatorial ionosphere observed by the FORMOSAT-3/COSMIC: Three-dimensional electron density structures. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	158
6	Longitudinal structure of the equatorial ionosphere: Time evolution of the four-peaked EIA structure. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	134
7	Ionospheric GPS total electron content (TEC) disturbances triggered by the 26 December 2004 Indian Ocean tsunami. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	101
8	Midlatitude summer nighttime anomaly of the ionospheric electron density observed by FORMOSAT-3/COSMIC. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	101
9	Three-dimensional ionospheric electron density structure of the Weddell Sea Anomaly. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	86
10	Rapid Conjugate Appearance of the Giant Ionospheric Lamb Wave Signatures in the Northern Hemisphere After Hunga-Tonga Volcano Eruptions. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	83
11	Concentric traveling ionosphere disturbances triggered by Super Typhoon Meranti (2016). <i>Geophysical Research Letters</i> , 2017, 44, 1219-1226.	4.0	80
12	Coseismic ionospheric disturbances triggered by the Chi-Chi earthquake. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	78
13	Assimilation of FORMOSAT-3/COSMIC electron density profiles into a coupled thermosphere/ionosphere model using ensemble Kalman filtering. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	74
14	Observations and simulations of seismoionospheric GPS total electron content anomalies before the 12 January 2010 <i>M<sub>w</sub></i> 7 Haiti earthquake. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	73
15	Solar flare signatures of the ionospheric GPS total electron content. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	72
16	Large-scale variations of the low-latitude ionosphere during the October-November 2003 superstorm: Observational results. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	71
17	Artificial plasma cave in the low-latitude ionosphere results from the radio occultation inversion of the FORMOSAT-3/COSMIC. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	71
18	Ionospheric solar flare effects monitored by the ground-based GPS receivers: Theory and observation. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	67

#	ARTICLE	IF	CITATIONS
19	First tomographic observations of the Midlatitude Summer Nighttime Anomaly over Japan. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	60
20	Stationary planetary wave and nonmigrating tidal signatures in ionospheric wave 3 and wave 4 variations in 2007â€“2011 FORMOSAT-3/COSMIC observations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6651-6665.	2.4	54
21	Observational evidence of ionospheric migrating tide modification during the 2009 stratospheric sudden warming. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	53
22	Long-distance propagation of ionospheric disturbance generated by the 2011 off the Pacific coast of Tohoku Earthquake. <i>Earth, Planets and Space</i> , 2011, 63, 881-884.	2.5	52
23	Medium-scale traveling ionospheric disturbances triggered by Super Typhoon Nepartak (2016). <i>Geophysical Research Letters</i> , 2017, 44, 7569-7577.	4.0	51
24	Ionospheric assimilation of radio occultation and ground-based GPS data using non-stationary background model error covariance. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 171-182.	3.1	49
25	Medium-scale traveling ionospheric disturbances by three-dimensional ionospheric GPS tomography. <i>Earth, Planets and Space</i> , 2016, 68, .	2.5	47
26	The Early Results and Validation of FORMOSAT-3/COSMIC Space Weather Products: Global Ionospheric Specification and NeAided Abel Electron Density Profile. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028028.	2.4	47
27	Dayside ionospheric response to recurrent geomagnetic activity during the extreme solar minimum of 2008. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	43
28	Ionospheric Bow Wave Induced by the Moon Shadow Ship Over the Continent of United States on 21 August 2017. <i>Geophysical Research Letters</i> , 2018, 45, 538-544.	4.0	43
29	Theoretical study of the ionospheric Weddell Sea Anomaly using SAMI2. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	42
30	The ionospheric midlatitude trough observed by FORMOSAT-3/COSMIC during solar minimum. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	41
31	Ionospheric data assimilation with thermosphereâ€“ionosphereâ€“electrodynamics general circulation model and GPSâ€“TEC during geomagnetic storm conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5708-5722.	2.4	40
32	Seasonal and local time variation of ionospheric migrating tides in 2007â€“2011 FORMOSAT-3/COSMIC and TIEâ€“GCM total electron content. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2545-2564.	2.4	39
33	Bow and stern waves triggered by the Moon's shadow boat. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	37
34	Concentric traveling ionospheric disturbances triggered by the launch of a SpaceX Falcon 9 rocket. <i>Geophysical Research Letters</i> , 2017, 44, 7578-7586.	4.0	36
35	Tracking the epicenter and the tsunami origin with GPS ionosphere observation. <i>Earth, Planets and Space</i> , 2011, 63, 859-862.	2.5	35
36	Daytime longitudinal structures of electron density and temperature in the topside ionosphere observed by the Hinotori and DEMETER satellites. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	34

#	ARTICLE	IF	CITATIONS
37	The summer evening anomaly and conjugate effects. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	33
38	Observations of global ionospheric responses to the 2009 stratospheric sudden warming event by FORMOSAT-3/COSMIC. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	33
39	Data Assimilation of Ground-Based GPS and Radio Occultation Total Electron Content for Global Ionospheric Specification. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,876.	2.4	33
40	Theoretical study of new plasma structures in the low-latitude ionosphere during a major magnetic storm. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	32
41	Modeling the ionospheric prereversal enhancement by using coupled thermosphere-ionosphere data assimilation. <i>Geophysical Research Letters</i> , 2017, 44, 1652-1659.	4.0	32
42	Amplitude morphology of GPS radio occultation data for sporadic E layers. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	31
43	Thermospheric tidal effects on the ionospheric midlatitude summer nighttime anomaly using SAMI3 and TIEGCM. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3836-3845.	2.4	30
44	Local-Time and Vertical Characteristics of Quasi-6-Day Oscillation in the Ionosphere During the 2019 Antarctic Sudden Stratospheric Warming. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090345.	4.0	30
45	Ionospheric disturbances induced by a missile launched from North Korea on 12 December 2012. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 5184-5189.	2.4	29
46	Structure and origins of the Weddell Sea Anomaly from tidal and planetary wave signatures in FORMOSAT-3/COSMIC observations and GAIA GCM simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1325-1340.	2.4	29
47	Neutral wind effect in producing a storm time ionospheric additional layer in the equatorial ionization anomaly region. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	28
48	Ionospheric shock waves triggered by rockets. <i>Annales Geophysicae</i> , 2014, 32, 1145-1152.	1.6	28
49	Gigantic Circular Shock Acoustic Waves in the Ionosphere Triggered by the Launch of FORMOSAT-5 Satellite. <i>Space Weather</i> , 2018, 16, 172-184.	3.7	28
50	A comparison of the equatorial spread F derived by the International Reference Ionosphere and the S 4 index observed by FORMOSAT-3/COSMIC during the solar minimum period of 2007-2009. <i>Earth, Planets and Space</i> , 2012, 64, 467-471.	2.5	26
51	Long-term variations of the nighttime electron density enhancement during the ionospheric midlatitude summer. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	24
52	Modeling impact of FORMOSAT-7/COSMIC mission on ionospheric space weather monitoring. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6518-6523.	2.4	23
53	Ionosphere data assimilation modeling of 2015 St. Patrick's Day geomagnetic storm. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 11,549.	2.4	23
54	Variations in the equatorial ionization anomaly peaks in the Western Pacific region during the geomagnetic storms of April 6 and July 15, 2000. <i>Earth, Planets and Space</i> , 2007, 59, 401-405.	2.5	22

#	ARTICLE	IF	CITATIONS
55	A statistical study on the characteristics of ionospheric storms in the equatorial ionization anomaly region: GPS-TEC observed over Taiwan. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3856-3865.	2.4	22
56	Ionospheric electron content and NmF2 from nighttime OI 135.6 nm intensity. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	21
57	Extreme Positive Ionosphere Storm Triggered by a Minor Magnetic Storm in Deep Solar Minimum Revealed by FORMOSAT-7/COSMIC-2 and GNSS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028261.	2.4	21
58	Revisiting the Modulations of Ionospheric Solar and Lunar Migrating Tides During the 2009 Stratospheric Sudden Warming by Using Global Ionosphere Specification. <i>Space Weather</i> , 2019, 17, 767-777.	3.7	20
59	The Persistent Ionospheric Responses Over Japan After the Impact of the 2011 Tohoku Earthquake. <i>Space Weather</i> , 2020, 18, e2019SW002302.	3.7	20
60	On the Relationship Between $E$ Region Scintillation and ENSO Observed by FORMOSAT-3/COSMIC. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4053-4065.	2.4	19
61	A statistical study of low latitude $F$ region irregularities at Brazilian longitudinal sector response to geomagnetic storms during post-sunset hours in solar cycle 23. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	18
62	Morphology of midlatitude electron density enhancement using total electron content measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1503-1517.	2.4	18
63	Ionospheric electron density inversion for Global Navigation Satellite Systems radio occultation using aided Abel inversions. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1386-1399.	2.4	18
64	Global equatorial plasma bubble growth rates using ionosphere data assimilation. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3777-3787.	2.4	18
65	Assimilation of Ionosphere Observations in the Whole Atmosphere Community Climate Model with Thermosphere-Ionosphere Extension (WACCMX). <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028251.	2.4	18
66	Seismo-Traveling Ionospheric Disturbances Triggered by the 12 May 2008 M 8.0 Wenchuan Earthquake. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2012, 23, 9.	0.6	17
67	The O I 135.6 nm airglow observations of the midlatitude summer nighttime anomaly by TIMED/GUVI. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	16
68	Three-dimensional electron density along the WSA and MSNA latitudes probed by FORMOSAT-3/COSMIC. <i>Earth, Planets and Space</i> , 2015, 67, .	2.5	16
69	Equatorial plasma bubble generation/inhibition during 2015 St. Patrick's Day storm. <i>Space Weather</i> , 2017, 15, 1141-1150.	3.7	16
70	Observation and simulation of the ionosphere disturbance waves triggered by rocket exhausts. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8868-8882.	2.4	16
71	Ionospheric Disturbances Triggered by SpaceX Falcon Heavy. <i>Geophysical Research Letters</i> , 2018, 45, 6334-6342.	4.0	16
72	Conjugate Effect of the 2011 Tohoku Reflected Tsunami-Driven Gravity Waves in the Ionosphere. <i>Geophysical Research Letters</i> , 2022, 49, e2021GL097170.	4.0	16

#	ARTICLE	IF	CITATIONS
73	Space-based imaging of nighttime medium-scale traveling ionospheric disturbances using FORMOSAT-2/ISUAL 630.0nm airglow observations. Journal of Geophysical Research: Space Physics, 2016, 121, 4769-4781.	2.4	15
74	Lunar Tide Effects on Ionospheric Solar Eclipse Signatures: The August 21, 2017 Event as an Example. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028472.	2.4	15
75	The Equatorial El Niño-Southern Oscillation Signatures Observed by FORMOSAT-3/COSMIC from July 2006 to January 2012. Terrestrial, Atmospheric and Oceanic Sciences, 2014, 25, 545.	0.6	14
76	Observation and Simulation of the Development of Equatorial Plasma Bubbles: Post-Sunset Rise or Upwelling Growth?. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028544.	2.4	13
77	Advances in Ionospheric Space Weather by Using FORMOSAT-7/COSMIC-2 GNSS Radio Occultations. Atmosphere, 2022, 13, 858.	2.3	12
78	Global Ionospheric Structure Imaged by FORMOSAT-3/COSMIC: Early Results. Terrestrial, Atmospheric and Oceanic Sciences, 2009, 20, 171.	0.6	11
79	First results of the limb imaging of 630.0 nm airglow using FORMOSAT-2/Imager of Sprites and Upper Atmospheric Lightnings. Journal of Geophysical Research, 2009, 114, .	3.3	10
80	Using the IRI, the MAGIC model, and the co-located ground-based GPS receivers to study ionospheric solar eclipse and storm signatures on July 22, 2009. Earth, Planets and Space, 2012, 64, 513-520.	2.5	10
81	Critical Issues in Ionospheric Data Quality and Implications for Scientific Studies. Radio Science, 2019, 54, 440-454.	1.6	10
82	FORMOSAT-3/COSMIC observations of the ionospheric auroral oval development. GPS Solutions, 2010, 14, 91-97.	4.3	9
83	Statistical study of medium-scale traveling ionospheric disturbances in low-latitude ionosphere using an automatic algorithm. Earth, Planets and Space, 2021, 73, .	2.5	9
84	Ionospheric plasma caves under the equatorial ionization anomaly. Journal of Geophysical Research, 2012, 117, .	3.3	8
85	Numerical Modeling of the Concentric Gravity Wave Seeding of Low-latitude Nighttime Medium-scale Traveling Ionospheric Disturbances. Geophysical Research Letters, 2018, 45, 6390-6399.	4.0	8
86	Ionospheric Electron Density Concurrently Derived by TIP and GOX of FORMOSAT-3/COSMIC. Terrestrial, Atmospheric and Oceanic Sciences, 2009, 20, 207.	0.6	7
87	Plasma Depletion Bays in the Equatorial Ionosphere Observed by FORMOSAT-3/COSMIC During 2007-2014. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027501.	2.4	6
88	Near Real-time Global Plasma Irregularity Monitoring by FORMOSAT-7/COSMIC-2. Journal of Geophysical Research: Space Physics, 2021, 126, .	2.4	6
89	Theoretical study of the ionospheric plasma cave in the equatorial ionization anomaly region. Journal of Geophysical Research: Space Physics, 2014, 119, 10,324.	2.4	5
90	Low-latitude midnight brightness in 630.0 nm limb observations by FORMOSAT-2/ISUAL. Journal of Geophysical Research: Space Physics, 2014, 119, 4894-4904.	2.4	5

#	ARTICLE	IF	CITATIONS
91	The fast development of solar terrestrial sciences in Taiwan. <i>Geoscience Letters</i> , 2016, 3, .	3.3	5
92	Modeling study of the ionospheric responses to the quasi-biennial oscillations of the sun and stratosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018, 171, 119-130.	1.6	5
93	Implication of Tidal Forcing Effects on the Zonal Variation of Solstice Equatorial Plasma Bubbles. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028295.	2.4	5
94	Equatorial ionization anomaly response to lunar phase and stratospheric sudden warming. <i>Scientific Reports</i> , 2021, 11, 14695.	3.3	4
95	Coordinated Observations of Rocket Exhaust Depletion: GOLD, Madrigal TEC, and Multiple Low-Earth-Orbit Satellites. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	4
96	Comparison of FORMOSAT-3/COSMIC radio occultation measurements with radio tomography. <i>Radio Science</i> , 2011, 46, .	1.6	3
97	The impact of FORMOSAT-5/AIP observations on the ionospheric space weather. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2017, 28, 129-137.	0.6	3
98	A Statistical Comparison of Zonal Mean and Tidal Signatures in FORMOSAT-3/COSMIC and Ground-Based GPS TECs. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2013, 24, 253.	0.6	1