Charles C H Lin

List of Publications by Year
in descending order

98	3,862	117625	138484
papers	citations	34 h-index	58 g-index

107	107	107	1774
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Conjugate Effect of the 2011 Tohoku Reflected Tsunamiâ€Driven Gravity Waves in the Ionosphere. Geophysical Research Letters, 2022, 49, e2021GL097170.	4.0	16
2	Coordinated Observations of Rocket Exhaust Depletion: GOLD, Madrigal TEC, and Multiple Lowâ€Earthâ€Orbit Satellites. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	4
3	Rapid Conjugate Appearance of the Giant Ionospheric Lamb Wave Signatures in the Northern Hemisphere After Hungaâ€Tonga Volcano Eruptions. Geophysical Research Letters, 2022, 49, .	4.0	83
4	Advances in Ionospheric Space Weather by Using FORMOSAT-7/COSMIC-2 GNSS Radio Occultations. Atmosphere, 2022, 13, 858.	2.3	12
5	Near Realâ€Time Global Plasma Irregularity Monitoring by FORMOSATâ€7/COSMICâ€2. Journal of Geophysical Research: Space Physics, 2021, 126, .	2.4	6
6	Extreme Positive Ionosphere Storm Triggered by a Minor Magnetic Storm in Deep Solar Minimum Revealed by FORMOSATâ€7/COSMICâ€2 and GNSS Observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028261.	2.4	21
7	Implication of Tidal Forcing Effects on the Zonal Variation of Solstice Equatorial Plasma Bubbles. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028295.	2.4	5
8	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
9	Equatorial ionization anomaly response to lunar phase and stratospheric sudden warming. Scientific Reports, 2021, 11, 14695.	3.3	4
10	Localâ€Time and Vertical Characteristics of Quasiâ€6â€Day Oscillation in the Ionosphere During the 2019 Antarctic Sudden Stratospheric Warming. Geophysical Research Letters, 2020, 47, e2020GL090345.	4.0	30
11	The Early Results and Validation of FORMOSATâ€7/COSMICâ€2 Space Weather Products: Global Ionospheric Specification and Neâ€Aided Abel Electron Density Profile. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028028.	2.4	47
12	Observation and Simulation of the Development of Equatorial Plasma Bubbles: Postâ€Sunset Rise or Upwelling Growth?. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028544.	2.4	13
13	Plasma Depletion Bays in the Equatorial Ionosphere Observed by FORMOSATâ€3/COSMIC During 2007â€“2014. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027501.	2.4	6
14	Assimilation of Ionosphere Observations in the Whole Atmosphere Community Climate Model with Thermosphereâ€Ionosphere EXtension (WACCMX). Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028251.	2.4	18
15	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
16	The Persistent Ionospheric Responses Over Japan After the Impact of the 2011 Tohoku Earthquake. Space Weather, 2020, 18, e2019SW002302.	3.7	20
17	Revisiting the Modulations of Ionospheric Solar and Lunar Migrating Tides During the 2009 Stratospheric Sudden Warming by Using Global Ionosphere Specification. Space Weather, 2019, 17, 767-777.	3.7	20
18	Critical Issues in Ionospheric Data Quality and Implications for Scientific Studies. Radio Science, 2019, 54, 440-454.	1.6	10

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19	Gigantic Circular Shock Acoustic Waves in the Ionosphere Triggered by the Launch of FORMOSATâ€5 Satellite. Space Weather, 2018, 16, 172-184.	3.7	28
20	Ionospheric Bow Wave Induced by the Moon Shadow Ship Over the Continent of United States on 21 August 2017. Geophysical Research Letters, 2018, 45, 538-544.	4.0	43
21	On the Relationship Between E Region Scintillation and ENSO Observed by FORMOSATâ€3/COSMIC. Journal of Geophysical Research: Space Physics, 2018, 123, 4053-4065.	2.4	19
22	Modeling study of the ionospheric responses to the quasi-biennial oscillations of the sun and stratosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 171, 119-130.	1.6	5
23	Numerical Modeling of the Concentric Gravity Wave Seeding of Lowâ€Latitude Nighttime Mediumâ€Scale Traveling Ionospheric Disturbances. Geophysical Research Letters, 2018, 45, 6390-6399.	4.0	8
24	Ionospheric Disturbances Triggered by SpaceX Falcon Heavy. Geophysical Research Letters, 2018, 45, 6334-6342.	4.0	16
25	Ionospheric electron density inversion for Global Navigation Satellite Systems radio occultation using aided Abel inversions. Journal of Geophysical Research: Space Physics, 2017, 122, 1386-1399.	2.4	18
26	Concentric traveling ionosphere disturbances triggered by Super Typhoon Meranti (2016). Geophysical Research Letters, 2017, 44, 1219-1226.	4.0	80
27	Modeling the ionospheric prereversal enhancement by using coupled thermosphereâ€ionosphere data assimilation. Geophysical Research Letters, 2017, 44, 1652-1659.	4.0	32
28	Global equatorial plasma bubble growth rates using ionosphere data assimilation. Journal of Geophysical Research: Space Physics, 2017, 122, 3777-3787.	2.4	18
29	Data Assimilation of Groundâ€Based GPS and Radio Occultation Total Electron Content for Global Ionospheric Specification. Journal of Geophysical Research: Space Physics, 2017, 122, 10,876.	2.4	33
30	Equatorial plasma bubble generation/inhibition during 2015ÂSt. Patrick's Day storm. Space Weather, 2017, 15, 1141-1150.	3.7	16
31	Observation and simulation of the ionosphere disturbance waves triggered by rocket exhausts. Journal of Geophysical Research: Space Physics, 2017, 122, 8868-8882.	2.4	16
32	Mediumâ€scale traveling ionospheric disturbances triggered by Super Typhoon Nepartak (2016). Geophysical Research Letters, 2017, 44, 7569-7577.	4.0	51
33	Concentric traveling ionospheric disturbances triggered by the launch of a SpaceX Falcon 9 rocket. Geophysical Research Letters, 2017, 44, 7578-7586.	4.0	36
34	The impact of FORMOSAT-5/AIP observations on the ionospheric space weather. Terrestrial, Atmospheric and Oceanic Sciences, 2017, 28, 129-137.	0.6	3
35	Ionosphere data assimilation modeling of 2015 St. Patrick's Day geomagnetic storm. Journal of Geophysical Research: Space Physics, 2016, 121, 11,549.	2.4	23
36	Morphology of midlatitude electron density enhancement using total electron content measurements. Journal of Geophysical Research: Space Physics, 2016, 121, 1503-1517.	2.4	18

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37	Ionospheric data assimilation with thermosphereâ€ionosphereâ€electrodynamics general circulation model and GPSâ€TEC during geomagnetic storm conditions. Journal of Geophysical Research: Space Physics, 2016, 121, 5708-5722.	2.4	40
38	Spaceâ€based imaging of nighttime mediumâ€scale traveling ionospheric disturbances using FORMOSATâ€2/ISUAL 630.0â€‰nm airglow observations. Journal of Geophysical Research: Space Physics, 2016, 121, 4769-4781.	2.4	15
39	The fast development of solar terrestrial sciences in Taiwan. Geoscience Letters, 2016, 3, .	3.3	5
40	Medium-scale traveling ionospheric disturbances by three-dimensional ionospheric GPS tomography. Earth, Planets and Space, 2016, 68, .	2.5	47
41	Three-dimensional electron density along the WSA and MSNA latitudes probed by FORMOSAT-3/COSMIC. Earth, Planets and Space, 2015, 67, .	2.5	16
42	Ionospheric assimilation of radio occultation and ground-based GPS data using non-stationary background model error covariance. Atmospheric Measurement Techniques, 2015, 8, 171-182.	3.1	49
43	Structure and origins of the Weddell Sea Anomaly from tidal and planetary wave signatures in FORMOSATâ€3/COSMIC observations and GAIA GCM simulations. Journal of Geophysical Research: Space Physics, 2015, 120, 1325-1340.	2.4	29
44	Ionospheric shock waves triggered by rockets. Annales Geophysicae, 2014, 32, 1145-1152.	1.6	28
45	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
46	The Equatorial El NiÃ±o-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
47	Lowâ€latitude midnight brightness in 630.0 nm limb observations by FORMOSATâ€2/ISUAL. Journal of Geophysical Research: Space Physics, 2014, 119, 4894-4904.	2.4	5
48	Ionospheric disturbances induced by a missile launched from North Korea on 12 December 2012. Journal of Geophysical Research: Space Physics, 2013, 118, 5184-5189.	2.4	29
49	Thermospheric tidal effects on the ionospheric midlatitude summer nighttime anomaly using SAMI3 and TIEGCM. Journal of Geophysical Research: Space Physics, 2013, 118, 3836-3845.	2.4	30
50	Seasonal and local time variation of ionospheric migrating tides in 2007â€“2011 FORMOSATâ€3/COSMIC and TIEâ€GCM total electron content. Journal of Geophysical Research: Space Physics, 2013, 118, 2545-2564.	2.4	39
51	A statistical study on the characteristics of ionospheric storms in the equatorial ionization anomaly region: GPSâ€TEC observed over Taiwan. Journal of Geophysical Research: Space Physics, 2013, 118, 3856-3865.	2.4	22
52	Stationary planetary wave and nonmigrating tidal signatures in ionospheric wave 3 and wave 4 variations in 2007â€“2011 FORMOSATâ€3/COSMIC observations. Journal of Geophysical Research: Space Physics, 2013, 118, 6651-6665.	2.4	54
53	Modeling impact of FORMOSATâ€7/COSMICâ€2 mission on ionospheric space weather monitoring. Journal of Geophysical Research: Space Physics, 2013, 118, 6518-6523.	2.4	23
54	A Statistical Comparison of Zonal Mean and Tidal Signatures in FORMOSAT-3/COSMIC and Ground-Based GPS TECs. Terrestrial, Atmospheric and Oceanic Sciences, 2013, 24, 253.	0.6	1

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55	Seismo-Traveling Ionospheric Disturbances Triggered by the 12 May 2008 M 8.0 Wenchuan Earthquake. Terrestrial, Atmospheric and Oceanic Sciences, 2012, 23, 9.	0.6	17
56	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 2007â€“2009. Earth, Planets and Space, 2012, 64, 467-471.	2.5	26
57	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
58	Observational evidence of ionospheric migrating tide modification during the 2009 stratospheric sudden warming. Geophysical Research Letters, 2012, 39, .	4.0	53
59	Assimilation of FORMOSATâ€3/COSMIC electron density profiles into a coupled thermosphere/ionosphere model using ensemble Kalman filtering. Journal of Geophysical Research, 2012, 117, .	3.3	74
60	Amplitude morphology of GPS radio occultation data for sporadicâ€E layers. Journal of Geophysical Research, 2012, 117, .	3.3	31
61	Ionospheric plasma caves under the equatorial ionization anomaly. Journal of Geophysical Research, 2012, 117, .	3.3	8
62	Longâ€term variations of the nighttime electron density enhancement during the ionospheric midlatitude summer. Journal of Geophysical Research, 2012, 117, .	3.3	24
63	A statistical study of low latitude F region irregularities at Brazilian longitudinal sector response to geomagnetic storms during postâ€sunset hours in solar cycle 23. Journal of Geophysical Research, 2012, 117, .	3.3	18
64	Observations of global ionospheric responses to the 2009 stratospheric sudden warming event by FORMOSATâ€3/COSMIC. Journal of Geophysical Research, 2012, 117, .	3.3	33
65	Daytime longitudinal structures of electron density and temperature in the topside ionosphere observed by the Hinotori and DEMETER satellites. Journal of Geophysical Research, 2011, 116, .	3.3	34
66	Ionospheric electron content and NmF2 from nighttime OI 135.6 nm intensity. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	21
67	The O I 135.6 nm airglow observations of the midlatitude summer nighttime anomaly by TIMED/GUVI. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	16
68	Bow and stern waves triggered by the Moon's shadow boat. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	37
69	Theoretical study of the ionospheric Weddell Sea Anomaly using SAMI2. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	42
70	Ionospheric disturbances triggered by the 11 March 2011M9.0 Tohoku earthquake. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	173
71	Observations and simulations of seismoionospheric GPS total electron content anomalies before the 12 January 2010M7 Haiti earthquake. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	73
72	Comparison of FORMOSATâ€3/COSMIC radio occultation measurements with radio tomography. Radio Science, 2011, 46, .	1.6	3

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73	The ionospheric midlatitude trough observed by FORMOSAT-3/COSMIC during solar minimum. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	41
74	The summer evening anomaly and conjugate effects. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	33
75	Tracking the epicenter and the tsunami origin with GPS ionosphere observation. Earth, Planets and Space, 2011, 63, 859-862.	2.5	35
76	Long-distance propagation of ionospheric disturbance generated by the 2011 off the Pacific coast of Tohoku Earthquake. Earth, Planets and Space, 2011, 63, 881-884.	2.5	52
77	FORMOSAT-3/COSMIC observations of the ionospheric auroral oval development. GPS Solutions, 2010, 14, 91-97.	4.3	9
78	Dayside ionospheric response to recurrent geomagnetic activity during the extreme solar minimum of 2008. Geophysical Research Letters, 2010, 37, .	4.0	43
79	Midlatitude summer nighttime anomaly of the ionospheric electron density observed by FORMOSATâ€3/COSMIC. Journal of Geophysical Research, 2010, 115, .	3.3	101
80	Coseismic ionospheric disturbances triggered by the Chiâ€Chi earthquake. Journal of Geophysical Research, 2010, 115, .	3.3	78
81	Artificial plasma cave in the lowâ€latitude ionosphere results from the radio occultation inversion of the FORMOSATâ€3/COSMIC. Journal of Geophysical Research, 2010, 115, .	3.3	71
82	Global Ionospheric Structure Imaged by FORMOSAT-3/COSMIC: Early Results. Terrestrial, Atmospheric and Oceanic Sciences, 2009, 20, 171.	0.6	11
83	Ionospheric Electron Density Concurrently Derived by TIP and GOX of FORMOSAT-3/COSMIC. Terrestrial, Atmospheric and Oceanic Sciences, 2009, 20, 207.	0.6	7
84	Theoretical study of new plasma structures in the lowâ€latitude ionosphere during a major magnetic storm. Journal of Geophysical Research, 2009, 114, .	3.3	32
85	Neutral wind effect in producing a storm time ionospheric additional layer in the equatorial ionization anomaly region. Journal of Geophysical Research, 2009, 114, .	3.3	28
86	First results of the limb imaging of 630.0 nm airglow using FORMOSATâ€2/Imager of Sprites and Upper Atmospheric Lightnings. Journal of Geophysical Research, 2009, 114, .	3.3	10
87	First tomographic observations of the Midlatitude Summer Nighttime Anomaly over Japan. Journal of Geophysical Research, 2009, 114, .	3.3	60
88	Threeâ€dimensional ionospheric electron density structure of the Weddell Sea Anomaly. Journal of Geophysical Research, 2009, 114, .	3.3	86
89	Seismoionospheric GPS total electron content anomalies observed before the 12 May 2008 M_w7.9 Wenchuan earthquake. Journal of Geophysical Research, 2009, 114, .	3.3	235
90	Variations in the equatorial ionization anomaly peaks in the Western Pacific region during the geomagnetic storms of April 6 and July 15, 2000. Earth, Planets and Space, 2007, 59, 401-405.	2.5	22

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91	Plausible effect of atmospheric tides on the equatorial ionosphere observed by the FORMOSAT-3/COSMIC: Three-dimensional electron density structures. Geophysical Research Letters, 2007, 34, .	4.0	158
92	Longitudinal structure of the equatorial ionosphere: Time evolution of the fourâ€peaked EIA structure. Journal of Geophysical Research, 2007, 112, .	3.3	134
93	Motions of the equatorial ionization anomaly crests imaged by FORMOSATâ€3/COSMIC. Geophysical Research Letters, 2007, 34, .	4.0	161
94	Ionospheric GPS total electron content (TEC) disturbances triggered by the 26 December 2004 Indian Ocean tsunami. Journal of Geophysical Research, 2006, 111, .	3.3	101
95	Solar flare signatures of the ionospheric GPS total electron content. Journal of Geophysical Research, 2006, 111, .	3.3	72
96	Large-scale variations of the low-latitude ionosphere during the October-November 2003 superstorm: Observational results. Journal of Geophysical Research, 2005, 110, .	3.3	71
97	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. Journal of Geophysical Research, 2005, 110, .	3.3	185
98	Ionospheric solar flare effects monitored by the ground-based GPS receivers: Theory and observation. Journal of Geophysical Research, 2004, 109, .	3.3	67