

Alfred Bing-Chih Chen

List of Publications by Year in descending order

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52
papers

1,626
citations

331670

21
h-index

302126

39
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53
all docs

53
docs citations

53
times ranked

738
citing authors

#	ARTICLE	IF	CITATIONS
1	Space-Based Observation of a Negative Sprite With an Unusual Signature of Associated Sprite Current. Journal of Geophysical Research D: Atmospheres, 2021, 126, 2020JD033686.	3.3	4
2	On negative Sprites and the Polarity Paradox. Geophysical Research Letters, 2019, 46, 9370-9378.	4.0	16
3	The Boltzmann Vibrational Temperature of N_2 ($B^3\hat{\Gamma}_g$) Derived From ISUAL Imager Multiband Measurements of Transient Luminous Events. Journal of Geophysical Research: Space Physics, 2019, 124, 10760-10777.	2.4	2
4	ISUAL-Observed Blue Luminous Events: The Associated Sferics. Journal of Geophysical Research: Space Physics, 2018, 123, 3063-3077.	2.4	23
5	Observations of Blue Discharges Associated With Negative Narrow Bipolar Events in Active Deep Convection. Geophysical Research Letters, 2018, 45, 2842-2851.	4.0	34
6	The effect of surface contamination of tiny satellite on DC probe ionosphere measurement. AIP Advances, 2018, 8, 105220.	1.3	9
7	On the Causative Strokes of Halos Observed by ISUAL in the Vicinity of North America. Geophysical Research Letters, 2018, 45, 10,781.	4.0	16
8	Spectroscopic Diagnostic of Halos and Elves Detected From Space-Based Photometers. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,917.	3.3	19
9	Triangulation and Coupling of Gigantic Jets Near the Lower Ionosphere Altitudes. Journal of Geophysical Research: Space Physics, 2018, 123, 6904-6916.	2.4	6
10	Back-diffusion plasma generator for ionosphere study. Plasma Sources Science and Technology, 2017, 26, 115010.	3.1	2
11	Selected results from the ISUAL/FORMOSAT2 mission. Terrestrial, Atmospheric and Oceanic Sciences, 2017, 28, 525-544.	0.6	5
12	Analysis of lightning strokes associated with sprites observed by ISUAL in the vicinity of North America. Terrestrial, Atmospheric and Oceanic Sciences, 2017, 28, 583-595.	0.6	17
13	The Imager for Sprites and Upper Atmospheric Lightning (ISUAL). Journal of Geophysical Research: Space Physics, 2016, 121, 8134-8145.	2.4	23
14	Space-based imaging of nighttime medium-scale traveling ionospheric disturbances using FORMOSAT2/ISUAL 630.0 nm airglow observations. Journal of Geophysical Research: Space Physics, 2016, 121, 4769-4781.	2.4	15
15	Identifying the occurrence of lightning and transient luminous events by nadir spectrophotometric observation. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 145, 85-97.	1.6	12
16	Characteristics of TLE-producing lightning in a coastal thunderstorm. Journal of Geophysical Research: Space Physics, 2014, 119, 9303-9320.	2.4	8
17	Low-latitude midnight brightness in 630.0 nm limb observations by FORMOSAT2/ISUAL. Journal of Geophysical Research: Space Physics, 2014, 119, 4894-4904.	2.4	5
18	Rare examples of early VLF events observed in association with ISUAL-detected gigantic jets. Radio Science, 2014, 49, 36-43.	1.6	5

#	ARTICLE	IF	CITATIONS
19	Energetics and geographic distribution of elve-producing discharges. Journal of Geophysical Research: Space Physics, 2014, 119, 1381-1391.	2.4	10
20	Ionization emissions associated with N ₂ ⁺ 1N band in halos without visible sprite streamers. Journal of Geophysical Research: Space Physics, 2013, 118, 5317-5326.	2.4	17
21	Secondary gigantic jets as possible inducers of sprites. Geophysical Research Letters, 2013, 40, 1462-1467.	4.0	6
22	Occurrence of elves and lightning during El Niño and La Niña. Geophysical Research Letters, 2012, 39, .	4.0	18
23	Optical and radio signatures of negative gigantic jets: Cases from Typhoon Lionrock (2010). Journal of Geophysical Research, 2012, 117, .	3.3	19
24	Characteristics and generation of secondary jets and secondary gigantic jets. Journal of Geophysical Research, 2012, 117, .	3.3	13
25	The 762 nm emissions of sprites. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	10
26	Optical emissions and behaviors of the blue starters, blue jets, and gigantic jets observed in the Taiwan transient luminous event ground campaign. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	30
27	Effects of notch-filtering on the ELF sferics and the physical parameters. Radio Science, 2011, 46, .	1.6	8
28	Midnight latitude-altitude distribution of 630 nm airglow in the Asian sector measured with FORMOSAT-2/ISUAL. Journal of Geophysical Research, 2010, 115, .	3.3	13
29	Absolute optical energy of sprites and its relationship to charge moment of parent lightning discharge based on measurement by ISUAL/AP. Journal of Geophysical Research, 2010, 115, .	3.3	18
30	Controlling synoptic-scale factors for the distribution of transient luminous events. Journal of Geophysical Research, 2010, 115, .	3.3	17
31	Gigantic jets with negative and positive polarity streamers. Journal of Geophysical Research, 2010, 115, .	3.3	45
32	ISUAL far-ultraviolet events, elves, and lightning current. Journal of Geophysical Research, 2010, 115, .	3.3	38
33	Further investigations of lightning-induced transient emissions in the OH airglow layer. Journal of Geophysical Research, 2010, 115, .	3.3	9
34	On the Global Occurrence and Impacts of Transient Luminous Events (TLEs)., 2009, .		16
35	Estimating lightning current moment waveforms from satellite optical measurements. Geophysical Research Letters, 2009, 36, .	4.0	15
36	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

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37	Assessment of sprite initiating electric fields and quenching altitude of N_2^+ using sprite streamer modeling and ISUAL spectrophotometric measurements. Journal of Geophysical Research, 2009, 114, .	3.3	30
38	Discharge processes, electric field, and electron energy in ISUAL-recorded gigantic jets. Journal of Geophysical Research, 2009, 114, .	3.3	73
39	Global distributions and occurrence rates of transient luminous events. Journal of Geophysical Research, 2008, 113, .	3.3	186
40	Radiative emission and energy deposition in transient luminous events. Journal Physics D: Applied Physics, 2008, 41, 234014.	2.8	51
41	Halos generated by negative cloud-to-ground lightning. Geophysical Research Letters, 2007, 34, .	4.0	58
42	Modeling elves observed by FORMOSAT-2 satellite. Journal of Geophysical Research, 2007, 112, .	3.3	59
43	Comparison of results from sprite streamer modeling with spectrophotometric measurements by ISUAL instrument on FORMOSAT-2 satellite. Geophysical Research Letters, 2006, 33, n/a-n/a.	4.0	57
44	Electric field transition between the diffuse and streamer regions of sprites estimated from ISUAL/array photometer measurements. Geophysical Research Letters, 2006, 33, .	4.0	50
45	Simultaneous radio and satellite optical measurements of high-altitude sprite current and lightning continuing current. Journal of Geophysical Research, 2006, 111, .	3.3	35
46	Beta-type stepped leader of elve-producing lightning. Geophysical Research Letters, 2005, 32, .	4.0	38
47	Electric fields and electron energies inferred from the ISUAL recorded sprites. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	89
48	Dregion ionization by lightning-induced electromagnetic pulses. Journal of Geophysical Research, 2005, 110, .	3.3	100
49	Transient luminous events in the vicinity of Taiwan. Journal of Atmospheric and Solar-Terrestrial Physics, 2003, 65, 561-566.	1.6	21
50	Gigantic jets between a thundercloud and the ionosphere. Nature, 2003, 423, 974-976.	27.8	191
51	Observation of sprites over the Asian continent and over oceans around Taiwan. Geophysical Research Letters, 2002, 29, 3-1.	4.0	55
52	Compact Scintillator Array Detector (ComSAD) for Sounding Rocket and CubeSat Missions. Journal of Astronomical Instrumentation, 0, , .	1.5	0