

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
g-index

53
all docs

53
docs citations

53
times ranked

738
citing authors

#	ARTICLE	IF	CITATIONS
1	Gigantic jets between a thundercloud and the ionosphere. <i>Nature</i> , 2003, 423, 974-976.	27.8	191
2	Global distributions and occurrence rates of transient luminous events. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	186
3	Dregion ionization by lightning-induced electromagnetic pulses. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	100
4	Electric fields and electron energies inferred from the ISUAL recorded sprites. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	89
5	Discharge processes, electric field, and electron energy in ISUAL-recorded gigantic jets. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	73
6	Modeling elves observed by FORMOSAT-2 satellite. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	59
7	Halos generated by negative cloud-to-ground lightning. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	58
8	Comparison of results from sprite streamer modeling with spectrophotometric measurements by ISUAL instrument on FORMOSAT-2 satellite. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	57
9	Observation of sprites over the Asian continent and over oceans around Taiwan. <i>Geophysical Research Letters</i> , 2002, 29, 3-1.	4.0	55
10	Radiative emission and energy deposition in transient luminous events. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 234014.	2.8	51
11	Electric field transition between the diffuse and streamer regions of sprites estimated from ISUAL/array photometer measurements. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	50
12	Gigantic jets with negative and positive polarity streamers. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	45
13	Beta-type stepped leader of elve-producing lightning. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	38
14	ISUAL far-ultraviolet events, elves, and lightning current. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	38
15	Simultaneous radio and satellite optical measurements of high-altitude sprite current and lightning continuing current. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	35
16	Observations of Blue Discharges Associated With Negative Narrow Bipolar Events in Active Deep Convection. <i>Geophysical Research Letters</i> , 2018, 45, 2842-2851.	4.0	34
17	Assessment of sprite initiating electric fields and quenching altitude of N_2 state of N_2 using sprite streamer modeling and ISUAL spectrophotometric measurements. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	30
18	Optical emissions and behaviors of the blue starters, blue jets, and gigantic jets observed in the Taiwan transient luminous event ground campaign. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	30

#	ARTICLE	IF	CITATIONS
19	The Imager for Sprites and Upper Atmospheric Lightning (ISUAL). Journal of Geophysical Research: Space Physics, 2016, 121, 8134-8145.	2.4	23
20	ISUALâ€œObserved Blue Luminous Events: The Associated Sferics. Journal of Geophysical Research: Space Physics, 2018, 123, 3063-3077.	2.4	23
21	Transient luminous events in the vicinity of Taiwan. Journal of Atmospheric and Solar-Terrestrial Physics, 2003, 65, 561-566.	1.6	21
22	Optical and radio signatures of negative gigantic jets: Cases from Typhoon Lionrock (2010). Journal of Geophysical Research, 2012, 117, .	3.3	19
23	Spectroscopic Diagnostic of Halos and Elves Detected From Spaceâ€œBased Photometers. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,917.	3.3	19
24	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
25	Occurrence of elves and lightning during El NiÃ±o and La NiÃ±a. Geophysical Research Letters, 2012, 39, .	4.0	18
26	Controlling synopticâ€œscale factors for the distribution of transient luminous events. Journal of Geophysical Research, 2010, 115, .	3.3	17
27	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
28	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
29	On the Global Occurrence and Impacts of Transient Luminous Events (TLEs). , 2009, , .		16
30	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
31	On negative Sprites and the Polarity Paradox. Geophysical Research Letters, 2019, 46, 9370-9378.	4.0	16
32	Estimating lightning current moment waveforms from satellite optical measurements. Geophysical Research Letters, 2009, 36, .	4.0	15
33	Spaceâ€œbased imaging of nighttime mediumâ€œscale traveling ionospheric disturbances using FORMOSATâ€œ2/ISUAL 630.0nm airglow observations. Journal of Geophysical Research: Space Physics, 2016, 121, 4769-4781.	2.4	15
34	Midnight latitudeâ€œaltitude distribution of 630 nm airglow in the Asian sector measured with FORMOSATâ€œ2/ISUAL. Journal of Geophysical Research, 2010, 115, .	3.3	13
35	Characteristics and generation of secondary jets and secondary gigantic jets. Journal of Geophysical Research, 2012, 117, .	3.3	13
36	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

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37	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
38	The 762 nm emissions of sprites. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	10
39	Energetics and geographic distribution of elve-producing discharges. Journal of Geophysical Research: Space Physics, 2014, 119, 1381-1391.	2.4	10
40	Further investigations of lightning-induced transient emissions in the OH airglow layer. Journal of Geophysical Research, 2010, 115, .	3.3	9
41	The effect of surface contamination of tiny satellite on DC probe ionosphere measurement. AIP Advances, 2018, 8, 105220.	1.3	9
42	Effects of notch-filtering on the ELF sferics and the physical parameters. Radio Science, 2011, 46, .	1.6	8
43	Characteristics of TLE-producing lightning in a coastal thunderstorm. Journal of Geophysical Research: Space Physics, 2014, 119, 9303-9320.	2.4	8
44	Secondary gigantic jets as possible inducers of sprites. Geophysical Research Letters, 2013, 40, 1462-1467.	4.0	6
45	Triangulation and Coupling of Gigantic Jets Near the Lower Ionosphere Altitudes. Journal of Geophysical Research: Space Physics, 2018, 123, 6904-6916.	2.4	6
46	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
47	Rare examples of early VLF events observed in association with ISUAL-detected gigantic jets. Radio Science, 2014, 49, 36-43.	1.6	5
48	Selected results from the ISUAL/FORMOSAT2 mission. Terrestrial, Atmospheric and Oceanic Sciences, 2017, 28, 525-544.	0.6	5
49	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
50	Back-diffusion plasma generator for ionosphere study. Plasma Sources Science and Technology, 2017, 26, 115010.	3.1	2
51	The Boltzmann Vibrational Temperature of N_2 ($B^3\hat{g}$) Derived From ISUAL Imager Multiband Measurements of Transient Luminous Events. Journal of Geophysical Research: Space Physics, 2019, 124, 10760-10777.	2.4	2
52	Compact Scintillator Array Detector (ComSAD) for Sounding Rocket and CubeSat Missions. Journal of Astronomical Instrumentation, 0, , .	1.5	0