Cheng-Ling Kuo

List of Publications by Year
in descending order

50 papers	1,345 citations	516710 16 h-index	345221 36 g-index
53 all docs	53 docs citations	53 times ranked	883 citing authors

#	Article	IF	Citations
1	Global distributions and occurrence rates of transient luminous events. Journal of Geophysical Research, 2008, 113, .	3.3	186
2	Lightning Related Transient Luminous Events at High Altitude in the Earthâ€™s Atmosphere: Phenomenology, Mechanisms and Effects. Space Science Reviews, 2012, 168, 475-516.	8.1	164
3	An improved coupling model for the lithosphereâ€atmosphereâ€ionosphere system. Journal of Geophysical Research: Space Physics, 2014, 119, 3189-3205.	2.4	143
4	Ionosphere plasma bubbles and density variations induced by pre-earthquake rock currents and associated surface charges. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	136
5	Electric fields and electron energies inferred from the ISUAL recorded sprites. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	89
6	Discharge processes, electric field, and electron energy in ISUALâ€recorded gigantic jets. Journal of Geophysical Research, 2009, 114, .	3.3	73
7	Modeling elves observed by FORMOSATâ€2 satellite. Journal of Geophysical Research, 2007, 112, .	3.3	59
8	Radiative emission and energy deposition in transient luminous events. Journal Physics D: Applied Physics, 2008, 41, 234014.	2.8	51
9	Gigantic jets with negative and positive polarity streamers. Journal of Geophysical Research, 2010, 115, .	3.3	45
10	ISUAL farâ€ultraviolet events, elves, and lightning current. Journal of Geophysical Research, 2010, 115, .	3.3	38
11	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
12	ISUALâ€Observed Blue Luminous Events: The Associated Sferics. Journal of Geophysical Research: Space Physics, 2018, 123, 3063-3077.	2.4	23
13	The Enhancement of Neutral Metal Na Layer Above Thunderstorms. Geophysical Research Letters, 2017, 44, 9555-9563.	4.0	21
14	Optical and radio signatures of negative gigantic jets: Cases from Typhoon Lionrock (2010). Journal of Geophysical Research, 2012, 117, .	3.3	19
15	Occurrence of elves and lightning during El NiÃ±o and La NiÃ±a. Geophysical Research Letters, 2012, 39, .	4.0	18
16	The blue luminous events observed by ISUAL payload on board FORMOSATâ€2 satellite. Journal of Geophysical Research: Space Physics, 2015, 120, 9795-9804.	2.4	18
17	Controlling synopticâ€scale factors for the distribution of transient luminous events. Journal of Geophysical Research, 2010, 115, .	3.3	17
18	Ionization emissions associated with N₂⁺ 1N band in halos without visible sprite streamers. Journal of Geophysical Research: Space Physics, 2013, 118, 5317-5326.	2.4	17

#	Article	IF	Citations
19	On the Global Occurrence and Impacts of Transient Luminous Events (TLEs). , 2009, , .		16
20	Ionospheric plasma dynamics and instability caused by upward currents above thunderstorms. Journal of Geophysical Research: Space Physics, 2015, 120, 3240-3253.	2.4	15
21	Characteristics and generation of secondary jets and secondary gigantic jets. Journal of Geophysical Research, 2012, 117, .	3.3	13
22	IDEASSat: A 3U CubeSat mission for ionospheric science. Advances in Space Research, 2020, 66, 116-134.	2.6	13
23	Fullâ€kinetic elve model simulations and their comparisons with the ISUAL observed events. Journal of Geophysical Research, 2012, 117, .	3.3	11
24	The 762 nm emissions of sprites. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	10
25	Further investigations of lightningâ€induced transient emissions in the OH airglow layer. Journal of Geophysical Research, 2010, 115, .	3.3	9
26	Characteristics of TLEâ€producing lightning in a coastal thunderstorm. Journal of Geophysical Research: Space Physics, 2014, 119, 9303-9320.	2.4	8
27	Preseismic TEC Changes for Tohoku-Oki Earthquake: Comparisons Between Simulations and Observations. Terrestrial, Atmospheric and Oceanic Sciences, 2015, 26, 63.	0.6	8
28	Simultaneous observations of stormâ€generated sprite and gravity wave over Bangladesh. Journal of Geophysical Research: Space Physics, 2016, 121, 9222-9233.	2.4	8
29	Two new SiC polytypes belonging to the [(44) n 43]3 structure family. Journal of Applied Crystallography, 1982, 15, 199-205.	4.5	7
30	Sensitivity Degradation of ISUAL Instruments and Its Impact on Observations. Terrestrial, Atmospheric and Oceanic Sciences, 2012, 23, 71.	0.6	7
31	The leading role of atomic oxygen in the collocation of elves and hydroxyl nightglow in the lowâ€latitude mesosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 5550-5567.	2.4	7
32	Secondary gigantic jets as possible inducers of sprites. Geophysical Research Letters, 2013, 40, 1462-1467.	4.0	6
33	Temporal and radiometric statistics on lightning flashes observed from space with the ISUAL spectrophotometer. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7586-7598.	3.3	6
34	Reply to comment by B. E. Prokhorov and O. V. Zolotov on â€œAn improved coupling model for the lithosphereâ€atmosphereâ€ionosphere systemâ€• Journal of Geophysical Research: Space Physics, 2017, 122, 4869-4874.	2.4	6
35	ANALYZING ISUAL SPECTROPHOTOMETER DATA USING A TWO-COLOR DIAGRAM METHOD. Journal of the Korean Astronomical Society, 2005, 38, 303-306.	1.5	6
36	GROUND OBSERVATIONS OF SPRITES AND OTHER TLES IN TAIWAN. Journal of the Korean Astronomical Society, 2005, 38, 299-302.	1.5	6

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37	The fast development of solar terrestrial sciences in Taiwan. Geoscience Letters, 2016, 3, .	3.3	5
38	Selected results from the ISUAL/FORMOSAT2 mission. Terrestrial, Atmospheric and Oceanic Sciences, 2017, 28, 525-544.	0.6	5
39	Resolving Elve, Halo and Sprite Halo Images at 10,000 Fps in the Taiwan 2020 Campaign. Atmosphere, 2021, 12, 1000.	2.3	4
40	Investigations of Lightning-Induced Sudden Brightening in the OH Airglow Layer Observed By ISUAL Onboard FORMOSAT-II Satellite. , 2009, , .		3
41	Multivariate analysis of dim elves from ISUAL observations. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7454-7466.	3.3	2
42	The Boltzmann Vibrational Temperature of N₂ (B³Î_g) Derived From ISUAL Imager Multiband Measurements of Transient Luminous Events. Journal of Geophysical Research: Space Physics, 2019, 124, 10760-10777.	2.4	2
43	Lightning Related Transient Luminous Events at High Altitude in the Earthâ€™s Atmosphere: Phenomenology, Mechanisms and Effects. Space Sciences Series of ISSI, 2011, , 475-516.	0.0	2
44	Experimental Validation of N2 Emission Ratios in Altitude Profiles of Observed Sprites. Frontiers in Earth Science, 2021, 9, .	1.8	2
45	Effects of ion-neutral collisions on AlfvÃ©n waves: The presence of forbidden zone and heavy damping zone. Physics of Plasmas, 2013, 20, 032902.	1.9	1
46	Radial Variations of Outward and Inward AlfvÃ©nic Fluctuations Based on Ulysses Observations. Astrophysical Journal, 2017, 850, 177.	4.5	1
47	Recent work on sprite spectrum in Taiwan. Terrestrial, Atmospheric and Oceanic Sciences, 2017, 28, 625-636.	0.6	1
48	ISUAL multi-band observations of elves. , 2011, , .		0
49	Introduction to the special issue on recent advances and developments in atmospheric electricity. Terrestrial, Atmospheric and Oceanic Sciences, 2017, 28, I-III.	0.6	0
50	ISUAL Imager and far-ultraviolet spectrophotometer degradation. Terrestrial, Atmospheric and Oceanic Sciences, 2017, 28, 563-569.	0.6	0