

# Cheng-Ling Kuo

## List of Publications by Year in descending order

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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	Resolving Elve, Halo and Sprite Halo Images at 10,000 Fps in the Taiwan 2020 Campaign. <i>Atmosphere</i> , 2021, 12, 1000.	2.3	4
2	Experimental Validation of N <sub>2</sub> Emission Ratios in Altitude Profiles of Observed Sprites. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	2
3	IDEASSat: A 3U CubeSat mission for ionospheric science. <i>Advances in Space Research</i> , 2020, 66, 116-134.	2.6	13
4	The Boltzmann Vibrational Temperature of N <sub>2</sub> (B <sup>3</sup> Î <sub>g</sub> ) Derived From ISUAL Imager Multiband Measurements of Transient Luminous Events. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10760-10777.	2.4	2
5	ISUALâ€™Observed Blue Luminous Events: The Associated Sferics. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3063-3077.	2.4	23
6	The leading role of atomic oxygen in the collocation of elves and hydroxyl nightglow in the lowâ€™altitude mesosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5550-5567.	2.4	7
7	Reply to comment by B. E. Prokhorov and O. V. Zolotov on â€™An improved coupling model for the lithosphereâ€™atmosphereâ€™ionosphere systemâ€™. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4869-4874.	2.4	6
8	The Enhancement of Neutral Metal Na Layer Above Thunderstorms. <i>Geophysical Research Letters</i> , 2017, 44, 9555-9563.	4.0	21
9	Radial Variations of Outward and Inward AlfvÃ©nic Fluctuations Based on Ulysses Observations. <i>Astrophysical Journal</i> , 2017, 850, 177.	4.5	1
10	Selected results from the ISUAL/FORMOSAT2 mission. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2017, 28, 525-544.	0.6	5
11	Introduction to the special issue on recent advances and developments in atmospheric electricity. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2017, 28, I-III.	0.6	0
12	ISUAL Imager and far-ultraviolet spectrophotometer degradation. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2017, 28, 563-569.	0.6	0
13	Recent work on sprite spectrum in Taiwan. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2017, 28, 625-636.	0.6	1
14	Simultaneous observations of stormâ€™generated sprite and gravity wave over Bangladesh. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9222-9233.	2.4	8
15	The fast development of solar terrestrial sciences in Taiwan. <i>Geoscience Letters</i> , 2016, 3, .	3.3	5
16	Ionospheric plasma dynamics and instability caused by upward currents above thunderstorms. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3240-3253.	2.4	15
17	Temporal and radiometric statistics on lightning flashes observed from space with the ISUAL spectrophotometer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 7586-7598.	3.3	6
18	Multivariate analysis of dim elves from ISUAL observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 7454-7466.	3.3	2

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19	The blue luminous events observed by ISUAL payload on board FORMOSAT-2 satellite. Journal of Geophysical Research: Space Physics, 2015, 120, 9795-9804.	2.4	18
20	Preseismic TEC Changes for Tohoku-Oki Earthquake: Comparisons Between Simulations and Observations. Terrestrial, Atmospheric and Oceanic Sciences, 2015, 26, 63.	0.6	8
21	Characteristics of TLE-producing lightning in a coastal thunderstorm. Journal of Geophysical Research: Space Physics, 2014, 119, 9303-9320.	2.4	8
22	An improved coupling model for the lithosphere-atmosphere-ionosphere system. Journal of Geophysical Research: Space Physics, 2014, 119, 3189-3205.	2.4	143
23	Effects of ion-neutral collisions on Alfvén waves: The presence of forbidden zone and heavy damping zone. Physics of Plasmas, 2013, 20, 032902.	1.9	1
24	Ionization emissions associated with N <sub>2</sub> <sup>+</sup> 1N band in halos without visible sprite streamers. Journal of Geophysical Research: Space Physics, 2013, 118, 5317-5326.	2.4	17
25	Secondary gigantic jets as possible inducers of sprites. Geophysical Research Letters, 2013, 40, 1462-1467.	4.0	6
26	Sensitivity Degradation of ISUAL Instruments and Its Impact on Observations. Terrestrial, Atmospheric and Oceanic Sciences, 2012, 23, 71.	0.6	7
27	Occurrence of elves and lightning during El Niño and La Niña. Geophysical Research Letters, 2012, 39, .	4.0	18
28	Optical and radio signatures of negative gigantic jets: Cases from Typhoon Lionrock (2010). Journal of Geophysical Research, 2012, 117, .	3.3	19
29	Full-kinetic elve model simulations and their comparisons with the ISUAL observed events. Journal of Geophysical Research, 2012, 117, .	3.3	11
30	Lightning Related Transient Luminous Events at High Altitude in the Earth's Atmosphere: Phenomenology, Mechanisms and Effects. Space Science Reviews, 2012, 168, 475-516.	8.1	164
31	Characteristics and generation of secondary jets and secondary gigantic jets. Journal of Geophysical Research, 2012, 117, .	3.3	13
32	The 762 nm emissions of sprites. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	10
33	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
34	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
35	ISUAL multi-band observations of elves. , 2011, , .		0
36	Lightning Related Transient Luminous Events at High Altitude in the Earth's Atmosphere: Phenomenology, Mechanisms and Effects. Space Sciences Series of ISSI, 2011, , 475-516.	0.0	2

#	ARTICLE	IF	CITATIONS
37	Controlling synoptic-scale factors for the distribution of transient luminous events. Journal of Geophysical Research, 2010, 115, .	3.3	17
38	Gigantic jets with negative and positive polarity streamers. Journal of Geophysical Research, 2010, 115, .	3.3	45
39	ISUAL far-ultraviolet events, elves, and lightning current. Journal of Geophysical Research, 2010, 115, .	3.3	38
40	Further investigations of lightning-induced transient emissions in the OH airglow layer. Journal of Geophysical Research, 2010, 115, .	3.3	9
41	On the Global Occurrence and Impacts of Transient Luminous Events (TLEs). , 2009, , .		16
42	Investigations of Lightning-Induced Sudden Brightening in the OH Airglow Layer Observed By ISUAL Onboard FORMOSAT-II Satellite. , 2009, , .		3
43	Discharge processes, electric field, and electron energy in ISUAL-recorded gigantic jets. Journal of Geophysical Research, 2009, 114, .	3.3	73
44	Global distributions and occurrence rates of transient luminous events. Journal of Geophysical Research, 2008, 113, .	3.3	186
45	Radiative emission and energy deposition in transient luminous events. Journal Physics D: Applied Physics, 2008, 41, 234014.	2.8	51
46	Modeling elves observed by FORMOSAT-2 satellite. Journal of Geophysical Research, 2007, 112, .	3.3	59
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	ANALYZING ISUAL SPECTROPHOTOMETER DATA USING A TWO-COLOR DIAGRAM METHOD. Journal of the Korean Astronomical Society, 2005, 38, 303-306.	1.5	6
49	GROUND OBSERVATIONS OF SPRITES AND OTHER TLES IN TAIWAN. Journal of the Korean Astronomical Society, 2005, 38, 299-302.	1.5	6
50	Two new SiC polytypes belonging to the [(44) n 43]3 structure family. Journal of Applied Crystallography, 1982, 15, 199-205.	4.5	7