

# R-R Hsu

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,685  
citations

331670

21  
h-index

289244

40  
g-index

61  
all docs

61  
docs citations

61  
times ranked

802  
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	Resolution of the sprite polarity paradox: The role of halos. <i>Radio Science</i> , 2012, 47, .	1.6	56
10	Observation of sprites over the Asian continent and over oceans around Taiwan. <i>Geophysical Research Letters</i> , 2002, 29, 3-1.	4.0	55
11	Radiative emission and energy deposition in transient luminous events. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 234014.	2.8	51
12	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
13	Gigantic jets with negative and positive polarity streamers. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	45
14	Beta-type stepped leader of elve-producing lightning. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	38
15	Broadband very low frequency measurement of Dregion ionospheric perturbations caused by lightning electromagnetic pulses. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	38
16	ISUAL far-ultraviolet events, elves, and lightning current. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	38
17	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
18	Assessment of sprite initiating electric fields and quenching altitude of state of $N_2$ using sprite streamer modeling and ISUAL spectrophotometric measurements. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	30

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19	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
20	The Imager for Sprites and Upper Atmospheric Lightning (ISUAL). <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8134-8145.	2.4	23
21	ISUAL-Observed Blue Luminous Events: The Associated Sferics. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3063-3077.	2.4	23
22	Absolute optical energy of sprites and its relationship to charge moment of parent lightning discharge based on measurement by ISUAL/AP. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	18
23	Occurrence of elves and lightning during El Niño and La Niña. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	18
24	The blue luminous events observed by ISUAL payload on board FORMOSAT-2 satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 9795-9804.	2.4	18
25	Ionization emissions associated with N <sub>2</sub> <sup>+</sup> 1N band in halos without visible sprite streamers. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 5317-5326.	2.4	17
26	Analysis of lightning strokes associated with sprites observed by ISUAL in the vicinity of North America. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2017, 28, 583-595.	0.6	17
27	On the Global Occurrence and Impacts of Transient Luminous Events (TLEs). , 2009, , .		16
28	The O I 135.6 nm airglow observations of the midlatitude summer nighttime anomaly by TIMED/GUVI. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	16
29	On the Causative Strokes of Halos Observed by ISUAL in the Vicinity of North America. <i>Geophysical Research Letters</i> , 2018, 45, 10,781.	4.0	16
30	On negative Sprites and the Polarity Paradox. <i>Geophysical Research Letters</i> , 2019, 46, 9370-9378.	4.0	16
31	On the Energy of a Charged Dilaton Black Hole. <i>International Journal of Modern Physics D</i> , 1997, 06, 349-356.	2.1	15
32	Estimating lightning current moment waveforms from satellite optical measurements. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	15
33	Space-based imaging of nighttime medium-scale traveling ionospheric disturbances using FORMOSAT-2/ISUAL 630.0nm airglow observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4769-4781.	2.4	15
34	Midnight latitude-altitude distribution of 630 nm airglow in the Asian sector measured with FORMOSAT-2/ISUAL. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	13
35	Identifying the occurrence of lightning and transient luminous events by nadir spectrophotometric observation. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016, 145, 85-97.	1.6	12
36	Full kinetic elve model simulations and their comparisons with the ISUAL observed events. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	11

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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. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	10
38	The 762 nm emissions of sprites. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	10
39	A statistical study on ELF-whistlers/emissions and M/Li 5.0 earthquakes in Taiwan. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3760-3768.	2.4	10
40	Energetics and geographic distribution of elve-producing discharges. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1381-1391.	2.4	10
41	Further investigations of lightning-induced transient emissions in the OH airglow layer. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	9
42	First satellite-imaging observation of medium-scale traveling ionospheric disturbances by FORMOSAT-2/ISUAL. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	9
43	Low-latitude ELF-whistlers observed in Taiwan. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	8
44	Characteristics of TLE-producing lightning in a coastal thunderstorm. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 9303-9320.	2.4	8
45	The leading role of atomic oxygen in the collocation of elves and hydroxyl nightglow in the low-latitude mesosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5550-5567.	2.4	7
46	Secondary gigantic jets as possible inducers of sprites. <i>Geophysical Research Letters</i> , 2013, 40, 1462-1467.	4.0	6
47	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
48	Triangulation and Coupling of Gigantic Jets Near the Lower Ionosphere Altitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6904-6916.	2.4	6
49	Low-latitude midnight brightness in 630.0 nm limb observations by FORMOSAT-2/ISUAL. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 4894-4904.	2.4	5
50	Rare examples of early VLF events observed in association with ISUAL-detected gigantic jets. <i>Radio Science</i> , 2014, 49, 36-43.	1.6	5
51	Selected results from the ISUAL/FORMOSAT2 mission. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2017, 28, 525-544.	0.6	5
52	Transient luminous event coordinated observations using FORMOSAT-2 satellite and Taiwan sprites campaign. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2017, 28, 597-608.	0.6	4
53	Wave mode of the low-litudinal ELF-whistlers. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	2
54	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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55	The Boltzmann Vibrational Temperature of $N_2(B^3\hat{1}g)$ Derived From ISUAL Imager Multiband Measurements of Transient Luminous Events. Journal of Geophysical Research: Space Physics, 2019, 124, 10760-10777.	2.4	2
56	Experimental Validation of N2 Emission Ratios in Altitude Profiles of Observed Sprites. Frontiers in Earth Science, 2021, 9, .	1.8	2
57	Intercomparison of radar meteor velocity corrections using different ionization coefficients. Geophysical Research Letters, 2017, 44, 5766-5773.	4.0	1
58	BLACK-BODY RADIATION AND EINSTEIN'S TRANSITION PROBABILITY FOR q-BOSONS. Modern Physics Letters B, 1993, 07, 1809-1816.	1.9	0
59	ISUAL multi-band observations of elves. , 2011, , .		0
60	Meteorological balloons as an experimental platform for scientific and engineering research. , 2013, , .		0
61	The electromagnetic signatures of transient luminous events. , 2014, , .		0