R-R Hsu

List of Publications by Year
in descending order

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	Experimental Validation of N2 Emission Ratios in Altitude Profiles of Observed Sprites. Frontiers in Earth Science, 2021, 9, .	1.8	2
2	On negative Sprites and the Polarity Paradox. Geophysical Research Letters, 2019, 46, 9370-9378.	4.0	16
3	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
4	ISUALâ€Observed Blue Luminous Events: The Associated Sferics. Journal of Geophysical Research: Space Physics, 2018, 123, 3063-3077.	2.4	23
5	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
6	Triangulation and Coupling of Gigantic Jets Near the Lower Ionosphere Altitudes. Journal of Geophysical Research: Space Physics, 2018, 123, 6904-6916.	2.4	6
7	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
8	Intercomparison of radar meteor velocity corrections using different ionization coefficients. Geophysical Research Letters, 2017, 44, 5766-5773.	4.0	1
9	Selected results from the ISUAL/FORMOSAT2 mission. Terrestrial, Atmospheric and Oceanic Sciences, 2017, 28, 525-544.	0.6	5
10	Transient luminous event coordinated observations using FORMOSAT-2 satellite and Taiwan sprites campaign. Terrestrial, Atmospheric and Oceanic Sciences, 2017, 28, 597-608.	0.6	4
11	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
12	The Imager for Sprites and Upper Atmospheric Lightning (ISUAL). Journal of Geophysical Research: Space Physics, 2016, 121, 8134-8145.	2.4	23
13	Spaceâ€based imaging of nighttime mediumâ€scale traveling ionospheric disturbances using FORMOSATâ€2/ISUAL 630.0â€‰nm airglow observations. Journal of Geophysical Research: Space Physics, 2016, 121, 4769-4781.	2.4	15
14	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
15	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
16	Multivariate analysis of dim elves from ISUAL observations. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7454-7466.	3.3	2
17	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
18	Characteristics of TLEâ€producing lightning in a coastal thunderstorm. Journal of Geophysical Research: Space Physics, 2014, 119, 9303-9320.	2.4	8

#	Article	IF	Citations
19	The electromagnetic signatures of transient luminous events. , 2014, , .		0
20	Lowâ€latitude midnight brightness in 630.0 nm limb observations by FORMOSATâ€2/ISUAL. Journal of Geophysical Research: Space Physics, 2014, 119, 4894-4904.	2.4	5
21	Rare examples of early VLF events observed in association with ISUAL-detected gigantic jets. Radio Science, 2014, 49, 36-43.	1.6	5
22	Energetics and geographic distribution of elveâ€producing discharges. Journal of Geophysical Research: Space Physics, 2014, 119, 1381-1391.	2.4	10
23	Meteorological balloons as an experimental platform for scientific and engineering research. , 2013, , .		0
24	A statistical study on ELFâ€whistlers/emissions and Mâ€‰â€¥â€‰5.0 earthquakes in Taiwan. Journal of Geophysical Research: Space Physics, 2013, 118, 3760-3768.	2.4	10
25	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
26	Secondary gigantic jets as possible inducers of sprites. Geophysical Research Letters, 2013, 40, 1462-1467.	4.0	6
27	Occurrence of elves and lightning during El NiÃ±o and La NiÃ±a. Geophysical Research Letters, 2012, 39, .	4.0	18
28	Resolution of the sprite polarity paradox: The role of halos. Radio Science, 2012, 47, .	1.6	56
29	Fullâ€kinetic elve model simulations and their comparisons with the ISUAL observed events. Journal of Geophysical Research, 2012, 117, .	3.3	11
30	First satellite-imaging observation of medium-scale traveling ionospheric disturbances by FORMOSAT-2/ISUAL. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	9
31	The 762 nm emissions of sprites. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	10
32	The O I 135.6 nm airglow observations of the midlatitude summer nighttime anomaly by TIMED/GUVI. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	16
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	Wave mode of the low-latitudinal ELF-whistlers. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	2
35	ISUAL multi-band observations of elves. , 2011, , .		0
36	Midnight latitudeâ€altitude distribution of 630 nm airglow in the Asian sector measured with FORMOSATâ€2/ISUAL. Journal of Geophysical Research, 2010, 115, .	3.3	13

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37	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
38	Gigantic jets with negative and positive polarity streamers. Journal of Geophysical Research, 2010, 115, .	3.3	45
39	ISUAL farâ€ultraviolet events, elves, and lightning current. Journal of Geophysical Research, 2010, 115, .	3.3	38
40	Further investigations of lightningâ€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	Estimating lightning current moment waveforms from satellite optical measurements. Geophysical Research Letters, 2009, 36, .	4.0	15
43	First results of the limb imaging of 630.0 nm airglow using FORMOSATâ€2/Imager of Sprites and Upper Atmospheric Lightnings. Journal of Geophysical Research, 2009, 114, .	3.3	10
44	Assessment of sprite initiating electric fields and quenching altitude of a¹Î_g state of N₂ using sprite streamer modeling and ISUAL spectrophotometric measurements. Journal of Geophysical Research, 2009, 114, .	3.3	30
45	Discharge processes, electric field, and electron energy in ISUALâ€recorded gigantic jets. Journal of Geophysical Research, 2009, 114, .	3.3	73
46	Global distributions and occurrence rates of transient luminous events. Journal of Geophysical Research, 2008, 113, .	3.3	186
47	Radiative emission and energy deposition in transient luminous events. Journal Physics D: Applied Physics, 2008, 41, 234014.	2.8	51
48	Broadband very low frequency measurement ofDregion ionospheric perturbations caused by lightning electromagnetic pulses. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	38
49	Halos generated by negative cloudâ€toâ€ground lightning. Geophysical Research Letters, 2007, 34, .	4.0	58
50	Modeling elves observed by FORMOSATâ€2 satellite. Journal of Geophysical Research, 2007, 112, .	3.3	59
51	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
52	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
53	Simultaneous radio and satellite optical measurements of high-altitude sprite current and lightning continuing current. Journal of Geophysical Research, 2006, 111, .	3.3	35
54	Low-latitude ELF-whistlers observed in Taiwan. Geophysical Research Letters, 2005, 32, .	4.0	8

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55	Beta-type stepped leader of elve-producing lightning. Geophysical Research Letters, 2005, 32, .	4.0	38
56	Electric fields and electron energies inferred from the ISUAL recorded sprites. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	89
57	Dregion ionization by lightning-induced electromagnetic pulses. Journal of Geophysical Research, 2005, 110, .	3.3	100
58	Gigantic jets between a thundercloud and the ionosphere. Nature, 2003, 423, 974-976.	27.8	191
59	Observation of sprites over the Asian continent and over oceans around Taiwan. Geophysical Research Letters, 2002, 29, 3-1.	4.0	55
60	On the Energy of a Charged Dilaton Black Hole. International Journal of Modern Physics D, 1997, 06, 349-356.	2.1	15
61	BLACK-BODY RADIATION AND EINSTEINâ€™S TRANSITION PROBABILITY FOR q-BOSONS. Modern Physics Letters B, 1993, 07, 1809-1816.	1.9	0