Robert H Holzworth

List of Publications by Year
in descending order

65 papers	2,980 citations	185998 28 h-index	168136 53 g-index
69 all docs	69 docs citations	69 times ranked	2006 citing authors

#	Article	IF	Citations
1	Detection efficiency of the VLF World-Wide Lightning Location Network (WWLLN): initial case study. Annales Geophysicae, 2006, 24, 3197-3214.	0.6	239
2	First results on terrestrial gamma ray flashes from the Fermi Gammaâ€ray Burst Monitor. Journal of Geophysical Research, 2010, 115, .	3.3	218
3	Performance Assessment of the World Wide Lightning Location Network (WWLLN), Using the Los Alamos Sferic Array (LASA) as Ground Truth. Journal of Atmospheric and Oceanic Technology, 2006, 23, 1082-1092.	0.5	184
4	Relative detection efficiency of the World Wide Lightning Location Network. Radio Science, 2012, 47, .	0.8	181
5	Highlights of a New Ground-Based, Hourly Global Lightning Climatology. Bulletin of the American Meteorological Society, 2013, 94, 1381-1391.	1.7	173
6	WWLL global lightning detection system: Regional validation study in Brazil. Geophysical Research Letters, 2004, 31, .	1.5	141
7	Far-Field Power of Lightning Strokes as Measured by the World Wide Lightning Location Network. Journal of Atmospheric and Oceanic Technology, 2012, 29, 1102-1110.	0.5	114
8	Lightning enhancement over major oceanic shipping lanes. Geophysical Research Letters, 2017, 44, 9102-9111.	1.5	113
9	Terrestrial gammaâ€ray flashes in the Fermi era: Improvedâ€‰observations and analysis methods. Journal of Geophysical Research: Space Physics, 2013, 118, 3805-3830.	0.8	109
10	Growing Detection Efficiency of the World Wide Lightning Location Network. , 2009, , .		106
11	Associations between Fermi Gammaâ€ray Burst Monitor terrestrial gamma ray flashes and sferics from the World Wide Lightning Location Network. Journal of Geophysical Research, 2010, 115, .	3.3	92
12	Radiated VLF energy differences of land and oceanic lightning. Geophysical Research Letters, 2013, 40, 2390-2394.	1.5	82
13	Radio signals from electron beams in terrestrial gamma ray flashes. Journal of Geophysical Research: Space Physics, 2013, 118, 2313-2320.	0.8	80
14	Spectral dependence of terrestrial gammaâ€ray flashes on source distance. Geophysical Research Letters, 2009, 36, .	1.5	78
15	Terrestrial gamma ray flashes correlated to storm phase and tropopause height. Journal of Geophysical Research, 2010, 115, .	3.3	74
16	Local time variation in land/ocean lightning flash density as measured by the World Wide Lightning Location Network. Journal of Geophysical Research, 2007, 112, .	3.3	71
17	Lightningâ€generated NO_{<i>x</i>} seen by the Ozone Monitoring Instrument during NASA's Tropical Composition, Cloud and Climate Coupling Experiment (TC⁴). Journal of Geophysical Research, 2010, 115, .	3.3	65
18	Global Distribution of Superbolts. Journal of Geophysical Research D: Atmospheres, 2019, 124, 9996-10005.	1.2	61

#	Article	IF	Citations
19	The First <i>Fermi</i>â€GBM Terrestrial Gamma Ray Flash Catalog. Journal of Geophysical Research: Space Physics, 2018, 123, 4381-4401.	0.8	57
20	Estimates of lightning NO<i>_x</i> production based on OMI NO₂ observations over the Gulf of Mexico. Journal of Geophysical Research D: Atmospheres, 2016, 121, 8668-8691.	1.2	52
21	Lightning in the Arctic. Geophysical Research Letters, 2021, 48, e2020GL091366.	1.5	47
22	Did ice-charging generate volcanic lightning during the 2016â€"2017 eruption of Bogoslof volcano, Alaska?. Bulletin of Volcanology, 2020, 82, 1.	1.1	45
23	Solar flare perturbations in stratospheric current systems. Geophysical Research Letters, 1987, 14, 852-855.	1.5	42
24	CAPE Times P Explains Lightning Over Land But Not the Landâ€Ocean Contrast. Geophysical Research Letters, 2018, 45, 12,623.	1.5	41
25	A performance assessment of the World Wide Lightning Location Network (WWLLN) via comparison with the Canadian Lightning Detection Network (CLDN). Atmospheric Measurement Techniques, 2010, 3, 1143-1153.	1.2	39
26	Characteristics of Thunderstorms That Produce Terrestrial Gamma Ray Flashes. Bulletin of the American Meteorological Society, 2016, 97, 639-653.	1.7	36
27	Diurnal variation of the global electric circuit from clusteredâ€‰thunderstorms. Journal of Geophysical Research: Space Physics, 2014, 119, 620-629.	0.8	34
28	Fullâ€wave reflection of lightning longâ€wave radio pulses from the ionospheric <i>D</i> region: Numerical model. Journal of Geophysical Research, 2009, 114, .	3.3	30
29	Globally detected volcanic lightning and umbrella dynamics during the 2014 eruption of Kelud, Indonesia. Journal of Volcanology and Geothermal Research, 2019, 382, 81-91.	0.8	28
30	Rapid fluctuations of stratospheric electric field following a solar energetic particle event. Geophysical Research Letters, 2006, 33, .	1.5	27
31	Midlatitude Lightning NO_x Production Efficiency Inferred From OMI and WWLLN Data. Journal of Geophysical Research D: Atmospheres, 2019, 124, 13475-13497.	1.2	25
32	A Terrestrial Gammaâ€Ray Flash inside the Eyewall of Hurricane Patricia. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4977-4987.	1.2	23
33	Attenuation of lightningâ€produced sferics in the Earthâ€ionosphere waveguide and lowâ€latitude ionosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 3692-3699.	0.8	19
34	Study of oblique whistlers in the low-latitude ionosphere, jointly with the C/NOFS satellite and the World-Wide Lightning Location Network. Annales Geophysicae, 2011, 29, 851-863.	0.6	17
35	Lightning NO_x Production in the Tropics as Determined Using OMI NO₂ Retrievals and WWLLN Stroke Data. Journal of Geophysical Research D: Atmospheres, 2019, 124, 13498-13518.	1.2	17
36	The rarity of terrestrial gammaâ€ray flashes: 2. RHESSI stacking analysis. Journal of Geophysical Research D: Atmospheres, 2016, 121, 11,382.	1.2	16

#	Article	IF	Citations
37	Lightning and electrical activity during the Shiveluch volcano eruption on 16ÂNovemberÂ2014. Natural Hazards and Earth System Sciences, 2016, 16, 871-874.	1.5	15
38	Low-frequency ionospheric sounding with Narrow Bipolar Event lightning radio emissions: regular variabilities and solar-X-ray responses. Annales Geophysicae, 2007, 25, 2175-2184.	0.6	14
39	Fullâ€wave reflection of lightning longâ€wave radio pulses from the ionospheric <i>D</i> region: Comparison with midday observations of broadband lightning signals. Journal of Geophysical Research, 2010, 115, .	3.3	14
40	Balloon observations of temporal and spatial fluctuations in stratospheric conductivity. Advances in Space Research, 2005, 35, 1434-1449.	1.2	13
41	Azimuthal dependence of VLF propagation. Journal of Geophysical Research: Space Physics, 2013, 118, 5808-5812.	0.8	13
42	Magnetospheric electric field variations caused by storm-time shock fronts. Advances in Space Research, 2008, 42, 181-191.	1.2	12
43	Location prediction of electron TGFs. Journal of Geophysical Research, 2012, 117, .	3.3	11
44	Atmospheric electric effects during the explosion of Shiveluch volcano on November 16, 2014. Izvestiya - Atmospheric and Oceanic Physics, 2017, 53, 24-31.	0.2	11
45	Registration of Atmospheric-Electric Effects from Volcanic Clouds on the Kamchatka Peninsula (Russia). Atmosphere, 2020, 11, 634.	1.0	11
46	Coordinated Satellite Observations of the Very Low Frequency Transmission Through the Ionospheric <i>D</i> Layer at Low Latitudes, Using Broadband Radio Emissions From Lightning. Journal of Geophysical Research: Space Physics, 2018, 123, 2926-2952.	0.8	8
47	Using the World Wide Lightning Location Network (WWLLN) to Study Very Low Frequency Transmission in the Earthâ€Ionosphere Waveguide: 1. Comparison With a Fullâ€Wave Model. Radio Science, 2021, 56, e2021RS007293.	0.8	8
48	Long term changes in the electrical conductivity of the stratosphere. Advances in Space Research, 2003, 32, 1725-1735.	1.2	7
49	A Terrestrial Gammaâ€Ray Flash From the 2022 Hunga Tongaâ€"Hunga Ha'apai Volcanic Eruption. Geophysical Research Letters, 2022, 49, .	1.5	7
50	Latitude gradients in the natural variance in stratospheric conductivity â€" Implications for studies of long-term changes. Advances in Space Research, 2005, 35, 1385-1397.	1.2	6
51	A method to estimate whistler wave vector from polarization using threeâ€component electric field data. Radio Science, 2014, 49, 131-145.	0.8	6
52	Characteristics of Typhoon Eyewalls According to World Wide Lightning Location Network Data. Monthly Weather Review, 2019, 147, 4027-4043.	0.5	6
53	A Fermi Gammaâ€Ray Burst Monitor Event Observed as a Terrestrial Gammaâ€Ray Flash and Terrestrial Electron Beam. Journal of Geophysical Research: Space Physics, 2019, 124, 10580-10591.	0.8	6
54	Evidence for Extended Charging Periods Prior to Terrestrial Gamma Ray Flashes. Geophysical Research Letters, 2019, 46, 10619-10626.	1.5	6

#	Article	IF	Citations
55	Atmosphereâ€ionosphere conductivity enhancements during a hard solar energetic particle event. Journal of Geophysical Research, 2012, 117, .	3.3	4
56	Automated identification of discrete, lightningâ€generated, multipleâ€dispersed whistler waves in C/NOFSâ€VEFI very low frequency observations. Radio Science, 2016, 51, 1547-1569.	0.8	4
57	Special Classes of Terrestrial Gamma Ray Flashes From RHESSI. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033043.	1.2	4
58	The Relationship Between TGF Production in Thunderstorms and Lightning Flash Rates and Amplitudes. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034401.	1.2	4
59	Thunderstorm activity and the structure of tropical cyclones. Atmospheric and Oceanic Optics, 2015, 28, 585-590.	0.6	3
60	CAPE Threshold for Lightning Over the Tropical Ocean. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035621.	1.2	3
61	Using the World Wide Lightning Location Network (WWLLN) to Study Very Low Frequency Transmission in the Earthâ€ionosphere Waveguide: 2. Model Test by Patterns of Detection/Nonâ€Detection. Radio Science, 2022, 57, .	0.8	2
62	Lowâ€Latitude Whistlerâ€Wave Spectra and Polarization From VEFI and CINDI Payloads on C/NOFS Satellite. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027074.	0.8	1
63	The Evolution of the Waveâ€One Ozone Maximum During the 2017 LASIC Field Campaign at Ascension Island. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033972.	1.2	1
64	Detail study of time evolution of three thunderstorm events in Tehran area using observations and numerical simulations for lightning nowcasting. Natural Hazards, 2021, 109, 1481-1508.	1.6	1
65	Radio Frequency Emissions Associated With Multiâ€Pulsed Terrestrial Gammaâ€Ray Flashes. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA027928.	0.8	0