

# Brant Carlson

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

653  
citations

623734

14  
h-index

713466

21  
g-index

28  
all docs

28  
docs citations

28  
times ranked

548  
citing authors

#	ARTICLE	IF	CITATIONS
1	Constraints on terrestrial gamma ray flash production from satellite observation. Geophysical Research Letters, 2007, 34, .	4.0	89
2	Terrestrial gamma ray flash production by active lightning leader channels. Journal of Geophysical Research, 2010, 115, .	3.3	69
3	Terrestrial gamma ray flash production by lightning current pulses. Journal of Geophysical Research, 2009, 114, .	3.3	56
4	Simultaneous observations of optical lightning and terrestrial gamma ray flash from space. Geophysical Research Letters, 2013, 40, 2423-2426.	4.0	54
5	Neutron production in terrestrial gamma ray flashes. Journal of Geophysical Research, 2010, 115, .	3.3	50
6	Confining the angular distribution of terrestrial gamma ray flash emission. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	49
7	The Modular X- and Gamma-Ray Sensor (MXGS) of the ASIM Payload on the International Space Station. Space Science Reviews, 2019, 215, 1.	8.1	42
8	A new method reveals more TGFs in the RHESSI data. Geophysical Research Letters, 2012, 39, .	4.0	41
9	Modeling the relativistic runaway electron avalanche and the feedback mechanism with GEANT4. Journal of Geophysical Research: Space Physics, 2014, 119, 9174-9191.	2.4	35
10	Runaway relativistic electron avalanche seeding in the Earth's atmosphere. Journal of Geophysical Research, 2008, 113, .	3.3	26
11	Terrestrial gamma-ray flash electron beam geometry, fluence, and detection frequency. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	23
12	Constraints to do realistic modeling of the electric field ahead of the tip of a lightning leader. Journal of Geophysical Research D: Atmospheres, 2017, 122, 8120-8134.	3.3	20
13	Relativistic electrons from sparks in the laboratory. Journal of Geophysical Research D: Atmospheres, 2016, 121, 2939-2954.	3.3	15
14	Observations of Terrestrial Gamma-Ray Flash Electrons. , 2009, , .		14
15	Meter-scale spark X-ray spectrum statistics. Journal of Geophysical Research D: Atmospheres, 2015, 120, 11191-11202.	3.3	14
16	Spectral Analysis of Individual Terrestrial Gamma-Ray Flashes Detected by ASIM. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035347.	3.3	10
17	Search for correlated high energy cosmic ray events with CHICOS. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, 409-416.	3.6	8
18	Time domain simulations of preliminary breakdown pulses in natural lightning. Journal of Geophysical Research D: Atmospheres, 2015, 120, 5316-5333.	3.3	8

#	ARTICLE	IF	CITATIONS
19	The First Terrestrial Electron Beam Observed by the Atmosphereâ€Space Interactions Monitor. Journal of Geophysical Research: Space Physics, 2019, 124, 10497-10511.	2.4	8
20	Connecting the terrestrial gammaâ€ray flash source strength and observed fluence distributions. Journal of Geophysical Research, 2012, 117, .	3.3	7
21	Constraining Spectral Models of a Terrestrial Gammaâ€Ray Flash From a Terrestrial Electron Beam Observation by the Atmosphereâ€Space Interactions Monitor. Geophysical Research Letters, 2021, 48, e2021GL093152.	4.0	6
22	A novel technique for remote sensing of thunderstorm electric fields via the Kerr effect and sky polarization. Geophysical Research Letters, 2008, 35, .	4.0	5
23	Examining lightning channel electrical properties with time domain fractal lightning modeling. , 2011, , .		2
24	Confining the angular distribution of TGF emission. , 2011, , .		0
25	The frequency of terrestrial gamma-ray flash electron beam observations. , 2011, , .		0