

Brian A Tinsley

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,733
citations

361413
20
h-index

315739
38
g-index

40
all docs

40
docs citations

40
times ranked

663
citing authors

#	ARTICLE	IF	CITATIONS
1	Title is missing!. Space Science Reviews, 2000, 94, 231-258.	8.1	259
2	Apparent tropospheric response to MeVâ€GeV particle flux variations: A connection via electrofreezing of supercooled water in highâ€level clouds?. Journal of Geophysical Research, 1991, 96, 22283-22296.	3.3	207
3	Correlations of atmospheric dynamics with solar activity evidence for a connection via the solar wind, atmospheric electricity, and cloud microphysics. Journal of Geophysical Research, 1993, 98, 10375-10384.	3.3	135
4	Correlations of atmospheric dynamics with solar wind-induced changes of air-Earth current density into cloud tops. Journal of Geophysical Research, 1996, 101, 29701-29714.	3.3	120
5	Solar variability influences on weather and climate: Possible connections through cosmic ray fluxes and storm intensification. Journal of Geophysical Research, 1989, 94, 14783-14792.	3.3	99
6	Initial results of a global circuit model with variable stratospheric and tropospheric aerosols. Journal of Geophysical Research, 2006, 111, .	3.3	96
7	Production of space charge at the boundaries of layer clouds. Journal of Geophysical Research, 2007, 112, .	3.3	82
8	The role of the global electric circuit in solar and internal forcing of clouds and climate. Advances in Space Research, 2007, 40, 1126-1139.	2.6	76
9	Solar wind-atmospheric electricity-cloud microphysics connections to weather and climate. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 149, 277-290.	1.6	59
10	Changes in scavenging of particles by droplets due to weak electrification in clouds. Atmospheric Research, 2006, 79, 266-295.	4.1	56
11	Stratospheric volcanic aerosols and changes in air-earth current density at solar wind magnetic sector boundaries as conditions for the Wilcox tropospheric vorticity effect. Journal of Geophysical Research, 1994, 99, 16805.	3.3	51
12	Atmospheric ionization and clouds as links between solar activity and climate. Geophysical Monograph Series, 2004, , 321-339.	0.1	45
13	A working hypothesis for connections between electrically-induced changes in cloud microphysics and storm vorticity, with possible effects on circulation. Advances in Space Research, 2012, 50, 791-805.	2.6	43
14	Are stratospheric aerosols the missing link between tropospheric vorticity and Earth transits of the heliospheric current sheet?. Journal of Geophysical Research, 1996, 101, 29689-29699.	3.3	39
15	Electric charge modulation of aerosol scavenging in clouds: Rate coefficients with Monte Carlo simulation of diffusion. Journal of Geophysical Research, 2010, 115, .	3.3	31
16	Global Circuit Model with Clouds. Journals of the Atmospheric Sciences, 2010, 67, 1143-1156.	1.7	27
17	Scavenging in weakly electrified saturated and subsaturated clouds, treating aerosol particles and droplets as conducting spheres. Journal of Geophysical Research, 2009, 114, .	3.3	24
18	The links between atmospheric vorticity, radiation belt electrons, and the solar wind. Advances in Space Research, 2012, 50, 783-790.	2.6	24

#	ARTICLE	IF	CITATIONS
19	Time dependent charging of layer clouds in the global electric circuit. <i>Advances in Space Research</i> , 2012, 50, 828-842.	2.6	23
20	Effects on winter circulation of short and long term solar wind changes. <i>Advances in Space Research</i> , 2014, 54, 2478-2490.	2.6	23
21	Parameterization of aerosol scavenging due to atmospheric ionization. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 8389-8410.	3.3	23
22	On the variability of the stratospheric column resistance in the global electric circuit. <i>Atmospheric Research</i> , 2005, 76, 78-94.	4.1	19
23	Correlations of global sea surface temperatures with the solar wind speed. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016, 149, 232-239.	1.6	18
24	Charge modulation of scavenging in clouds: Extension of Monte Carlo simulations and initial parameterization. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 8612-8624.	3.3	17
25	The response of longwave radiation at the South Pole to electrical and magnetic variations: Links to meteorological generators and the solar wind. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018, 179, 214-224.	1.6	17
26	Relationships between the solar wind magnetic field and ground-level longwave irradiance at high northern latitudes. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019, 193, 105063.	1.6	15
27	Parameterization of aerosol scavenging due to atmospheric ionization under varying relative humidity. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 5330-5350.	3.3	14
28	The zonal-mean and regional tropospheric pressure responses to changes in ionospheric potential. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018, 171, 111-118.	1.6	13
29	The role of volcanic aerosols and relativistic electrons in modulating winter storm vorticity. <i>Advances in Space Research</i> , 2012, 50, 819-827.	2.6	11
30	Uncertainties in Evaluating Global Electric Circuit Interactions With Atmospheric Clouds and Aerosols, and Consequences for Radiation and Dynamics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	11
31	Seasonal and Solar Wind Sector Duration Influences on the Correlation of High Latitude Clouds With Ionospheric Potential. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034201.	3.3	10
32	Parameterization of In-Cloud Aerosol Scavenging Due to Atmospheric Ionization: Part 3. Effects of Varying Droplet Radius. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 10,546.	3.3	9
33	The Terrestrial Cosmic Ray Flux: Its Importance for Climate. <i>Eos</i> , 2009, 90, 397-398.	0.1	8
34	Comments on "Effect of Electric Charge on Collisions between Cloud Droplets". <i>Journal of Applied Meteorology and Climatology</i> , 2014, 53, 1317-1320.	1.5	7
35	Parameterization of In-Cloud Aerosol Scavenging Due To Atmospheric Ionization: 2. Effects of Varying Particle Density. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 3099-3115.	3.3	7
36	Parameterization of In-Cloud Aerosol Scavenging Due to Atmospheric Ionization: Part 4. Effects of Varying Altitude. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 13105-13126.	3.3	6

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37	Global electric circuit modulation of winter cyclone vorticity in the northern high latitudes. <i>Advances in Space Research</i> , 2012, 50, 806-818.	2.6	5
38	Low Latitude Lightning Activity Responses to Cosmic Ray Forbush Decreases. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087024.	4.0	3