

Brian C Thomas

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,300
citations

394286

19
h-index

360920

35
g-index

45
all docs

45
docs citations

45
times ranked

772
citing authors

#	ARTICLE	IF	CITATIONS
1	Did a gamma-ray burst initiate the late Ordovician mass extinction?. <i>International Journal of Astrobiology</i> , 2004, 3, 55-61.	0.9	147
2	Gamma-Ray Bursts and the Earth: Exploration of Atmospheric, Biological, Climatic, and Biogeochemical Effects. <i>Astrophysical Journal</i> , 2005, 634, 509-533.	1.6	107
3	Astrophysical Ionizing Radiation and Earth: A Brief Review and Census of Intermittent Intense Sources. <i>Astrobiology</i> , 2011, 11, 343-361.	1.5	91
4	Causes of an ad 774-775 ¹⁴ C increase. <i>Nature</i> , 2012, 491, E1-E2.	13.7	89
5	Late Ordovician geographic patterns of extinction compared with simulations of astrophysical ionizing radiation damage. <i>Paleobiology</i> , 2009, 35, 311-320.	1.3	74
6	Extraordinary Biomass-Burning Episode and Impact Winter Triggered by the Younger Dryas Cosmic Impact ~12,800 Years Ago. 2. Lake, Marine, and Terrestrial Sediments. <i>Journal of Geology</i> , 2018, 126, 185-205.	0.7	65
7	TERRESTRIAL EFFECTS OF NEARBY SUPERNOVAE IN THE EARLY PLEISTOCENE. <i>Astrophysical Journal Letters</i> , 2016, 826, L3.	3.0	59
8	Terrestrial effects of possible astrophysical sources of an AD 774-775 increase in ¹⁴ C production. <i>Geophysical Research Letters</i> , 2013, 40, 1237-1240.	1.5	58
9	Terrestrial Ozone Depletion due to a Milky Way Gamma-Ray Burst. <i>Astrophysical Journal</i> , 2005, 622, L153-L156.	1.6	49
10	Terrestrial Consequences of Spectral and Temporal Variability in Ionizing Photon Events. <i>Astrophysical Journal</i> , 2007, 654, 373-384.	1.6	44
11	Modeling atmospheric effects of the September 1859 solar flare. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	44
12	A Supernova at 50 pc: Effects on the Earth's Atmosphere and Biota. <i>Astrophysical Journal</i> , 2017, 840, 105.	1.6	44
13	Extraordinary Biomass-Burning Episode and Impact Winter Triggered by the Younger Dryas Cosmic Impact ~12,800 Years Ago. 1. Ice Cores and Glaciers. <i>Journal of Geology</i> , 2018, 126, 165-184.	0.7	43
14	Supernova triggers for end-Devonian extinctions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21008-21010.	3.3	37
15	Cometary airbursts and atmospheric chemistry: Tunguska and a candidate Younger Dryas event. <i>Geology</i> , 2010, 38, 355-358.	2.0	27
16	Solar Irradiance Changes and Photobiological Effects at Earth's Surface Following Astrophysical Ionizing Radiation Events. <i>Astrobiology</i> , 2015, 15, 207-220.	1.5	26
17	Climatic and biogeochemical effects of a galactic gamma ray burst. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	24
18	Lookup tables to compute high energy cosmic ray induced atmospheric ionization and changes in atmospheric chemistry. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 008-008.	1.9	23

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19	Solar Irradiance Changes and Phytoplankton Productivity in Earth's Ocean Following Astrophysical Ionizing Radiation Events. <i>Astrobiology</i> , 2016, 16, 245-258.	1.5	23
20	Inhibition by ultraviolet and photosynthetically available radiation lowers model estimates of depth-integrated picophytoplankton photosynthesis: global predictions for <i>Prochlorococcus</i> and <i>Synechococcus</i> . <i>Global Change Biology</i> , 2017, 23, 293-306.	4.2	19
21	Photobiological Effects at Earth's Surface Following a 50 pc Supernova. <i>Astrobiology</i> , 2018, 18, 481-490.	1.5	19
22	From Cosmic Explosions to Terrestrial Fires?. <i>Journal of Geology</i> , 2019, 127, 475-481.	0.7	19
23	Superluminous Supernovae: No Threat from <i>Carinae</i> . <i>Astrobiology</i> , 2008, 8, 9-16.	1.5	18
24	Amphibian Nitrate Stress as an Additional Terrestrial Threat from Astrophysical Ionizing Radiation Events?. <i>Astrobiology</i> , 2008, 8, 731-733.	1.5	18
25	Atmospheric ionization by high-fluence, hard-spectrum solar proton events and their probable appearance in the ice core archive. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 3017-3033.	1.2	18
26	Ground-Level Ozone Following Astrophysical Ionizing Radiation Events: An Additional Biological Hazard?. <i>Astrobiology</i> , 2016, 16, 1-6.	1.5	18
27	Gamma-ray bursts as a threat to life on Earth. <i>International Journal of Astrobiology</i> , 2009, 8, 183-186.	0.9	17
28	Gamma-ray bursts and terrestrial planetary atmospheres. <i>New Journal of Physics</i> , 2006, 8, 120-120.	1.2	15
29	Atmospheric consequences of cosmic ray variability in the extragalactic shock model: 2. Revised ionization levels and their consequences. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	11
30	Atmospheric constituents and surface-level UVB: Implications for a paleoaltimetry proxy and attempts to reconstruct UV exposure during volcanic episodes. <i>Earth and Planetary Science Letters</i> , 2016, 453, 141-151.	1.8	10
31	Atmospheric consequences of cosmic-ray variability in the extragalactic shock model. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	8
32	Terrestrial effects of moderately nearby supernovae. <i>Lethaia</i> , 2018, 51, 325-329.	0.6	7
33	Extraordinary Biomass-Burning Episode and Impact Winter Triggered by the Younger Dryas Cosmic Impact ~12,800 Years Ago: A Reply. <i>Journal of Geology</i> , 2020, 128, 95-107.	0.7	7
34	Climate change via CO ₂ drawdown from astrophysically initiated atmospheric ionization?. <i>International Journal of Astrobiology</i> , 2020, 19, 349-352.	0.9	6
35	Quantifying the Bullseye Effect. <i>Astrophysical Journal</i> , 2004, 601, 28-36.	1.6	5
36	Ozone depletion-induced climate change following a 50 pc supernova. <i>Physical Review Research</i> , 2020, 2, .	1.3	4

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37	An In-Class Discussion Activity on the Nature of Science and Intelligent Design. <i>Physics Teacher</i> , 2009, 47, 106-109.	0.2	3
38	Radiation as a Constraint for Life in the Universe. , 2018, , 27-46.		3
39	Getting the Swing of Surface Gravity. <i>Physics Teacher</i> , 2012, 50, 232-233.	0.2	1
40	From Cosmic Explosions to Terrestrial Fires? A Reply. <i>Journal of Geology</i> , 2020, 128, 393-393.	0.7	0
41	Gamma-rays from ultracompact minihaloes: effects on the Earth's atmosphere and links to mass extinction events. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 3523-3533.	1.6	0
42	Gamma-ray bursts: not so much deadlier than we thought. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 1970-1973.	1.6	0