

Vandiver Chaplin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4346447/publications.pdf>

Version: 2024-02-01

52
papers

4,181
citations

147566

31
h-index

214527

47
g-index

54
all docs

54
docs citations

54
times ranked

4637
citing authors

#	ARTICLE	IF	CITATIONS
1	A limit on the variation of the speed of light arising from quantum gravity effects. <i>Nature</i> , 2009, 462, 331-334.	13.7	454
2	Benchmarking an 11-qubit quantum computer. <i>Nature Communications</i> , 2019, 10, 5464.	5.8	307
3	A relativistic type Ibc supernova without a detected $\hat{\gamma}$ -ray burst. <i>Nature</i> , 2010, 463, 513-515.	13.7	275
4	First results on terrestrial gamma ray flashes from the Fermi Gamma-ray Burst Monitor. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	218
5	Fermi-LAT Observations of the Gamma-Ray Burst GRB 130427A. <i>Science</i> , 2014, 343, 42-47.	6.0	211
6	DETECTION OF A THERMAL SPECTRAL COMPONENT IN THE PROMPT EMISSION OF GRB 100724B. <i>Astrophysical Journal Letters</i> , 2011, 727, L33.	3.0	205
7	THE THIRD FERMI GBM GAMMA-RAY BURST CATALOG: THE FIRST SIX YEARS. <i>Astrophysical Journal, Supplement Series</i> , 2016, 223, 28.	3.0	191
8	Ground-state energy estimation of the water molecule on a trapped-ion quantum computer. <i>Npj Quantum Information</i> , 2020, 6, .	2.8	184
9	DETECTION OF A SPECTRAL BREAK IN THE EXTRA HARD COMPONENT OF GRB 090926A. <i>Astrophysical Journal</i> , 2011, 729, 114.	1.6	179
10	THE SECOND <i>FERMI</i> GBM GAMMA-RAY BURST CATALOG: THE FIRST FOUR YEARS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 211, 13.	3.0	172
11	THE <i>FERMI</i> GBM GAMMA-RAY BURST SPECTRAL CATALOG: THE FIRST TWO YEARS. <i>Astrophysical Journal, Supplement Series</i> , 2012, 199, 19.	3.0	162
12	Electron-positron beams from terrestrial lightning observed with Fermi GBM. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	123
13	WHEN A STANDARD CANDLE FLICKERS. <i>Astrophysical Journal Letters</i> , 2011, 727, L40.	3.0	117
14	Terrestrial gamma-ray flashes in the Fermi era: Improved observations and analysis methods. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3805-3830.	0.8	109
15	THE <i>FERMI</i> GBM GAMMA-RAY BURST CATALOG: THE FIRST TWO YEARS. <i>Astrophysical Journal, Supplement Series</i> , 2012, 199, 18.	3.0	100
16	Associations between Fermi Gamma-ray Burst Monitor terrestrial gamma ray flashes and sferics from the World Wide Lightning Location Network. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	92
17	Radio signals from electron beams in terrestrial gamma ray flashes. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2313-2320.	0.8	80
18	TIME-RESOLVED SPECTROSCOPY OF THE THREE BRIGHTEST AND HARDEST SHORT GAMMA-RAY BURSTS OBSERVED WITH THE <i>FERMI</i> GAMMA-RAY BURST MONITOR. <i>Astrophysical Journal</i> , 2010, 725, 225-241.	1.6	75

#	ARTICLE	IF	CITATIONS
19	Neuromodulation of sensory networks in monkey brain by focused ultrasound with MRI guidance and detection. <i>Scientific Reports</i> , 2018, 8, 7993.	1.6	69
20	SGR J1550â€“5418 BURSTS DETECTED WITH THE <i>FERMI</i> GAMMA-RAY BURST MONITOR DURING ITS MOST PROLIFIC ACTIVITY. <i>Astrophysical Journal</i> , 2012, 749, 122.	1.6	66
21	<i>FERMI</i> OBSERVATIONS OF HIGH-ENERGY GAMMA-RAY EMISSION FROM GRB 080825C. <i>Astrophysical Journal</i> , 2009, 707, 580-592.	1.6	56
22	The First Pulse of the Extremely Bright GRB 130427A: A Test Lab for Synchrotron Shocks. <i>Science</i> , 2014, 343, 51-54.	6.0	55
23	<i>FERMI</i> DETECTION OF DELAYED GeV EMISSION FROM THE SHORT GAMMA-RAY BURST 081024B. <i>Astrophysical Journal</i> , 2010, 712, 558-564.	1.6	54
24	Efficient arbitrary simultaneously entangling gates on a trapped-ion quantum computer. <i>Nature Communications</i> , 2020, 11, 2963.	5.8	53
25	THE FIVE YEAR <i>FERMI</i> /GBM MAGNETAR BURST CATALOG. <i>Astrophysical Journal, Supplement Series</i> , 2015, 218, 11.	3.0	45
26	CONSTRAINTS ON THE SYNCHROTRON SHOCK MODEL FOR THE <i>FERMI</i> GRB 090820A OBSERVED BY GAMMA-RAY BURST MONITOR. <i>Astrophysical Journal</i> , 2011, 741, 24.	1.6	43
27	<i>Fermi</i>/GBM observations of the ultra-long GRBÂ091024. <i>Astronomy and Astrophysics</i> , 2011, 528, A15.	2.1	43
28	<i>Fermi</i>/GAMMA-RAY BURST MONITOR OBSERVATIONS OF SGR J0501+4516 BURSTS. <i>Astrophysical Journal</i> , 2011, 739, 87.	1.6	37
29	TEMPORAL DECONVOLUTION STUDY OF LONG AND SHORT GAMMA-RAY BURST LIGHT CURVES. <i>Astrophysical Journal</i> , 2012, 744, 141.	1.6	35
30	A random phased-array for MR-guided transcranial ultrasound neuromodulation in non-human primates. <i>Physics in Medicine and Biology</i> , 2018, 63, 105016.	1.6	33
31	Rest-frame properties of 32 gamma-ray bursts observed by the <i>Fermi</i> Gamma-ray Burst Monitor. <i>Astronomy and Astrophysics</i> , 2011, 531, A20.	2.1	32
32	THE HIGH-METALLICITY EXPLOSION ENVIRONMENT OF THE RELATIVISTIC SUPERNOVA 2009bb. <i>Astrophysical Journal Letters</i> , 2010, 709, L26-L31.	3.0	30
33	THREE YEARS OF <i>FERMI</i> GBM EARTH OCCULTATION MONITORING: OBSERVATIONS OF HARD X-RAY/SOFT GAMMA-RAY SOURCES. <i>Astrophysical Journal, Supplement Series</i> , 2012, 201, 33.	3.0	28
34	Fluence distribution of terrestrial gamma ray flashes observed by the Fermi Gammaâ€“ray Burst Monitor. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6644-6650.	0.8	28
35	Considerations for ultrasound exposure during transcranial MR acoustic radiation force imaging. <i>Scientific Reports</i> , 2019, 9, 16235.	1.6	28
36	FIRST-YEAR RESULTS OF BROADBAND SPECTROSCOPY OF THE BRIGHTEST <i>FERMI</i>-GBM GAMMA-RAY BURSTS. <i>Astrophysical Journal</i> , 2011, 733, 97.	1.6	25

#	ARTICLE	IF	CITATIONS
37	Pulse properties of terrestrial gamma-ray flashes detected by the Fermi Gamma-Ray Burst Monitor. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5931-5942.	0.8	25
38	On the accuracy of optically tracked transducers for image-guided transcranial ultrasound. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019, 14, 1317-1327.	1.7	25
39	BURST AND PERSISTENT EMISSION PROPERTIES DURING THE RECENT ACTIVE EPISODE OF THE ANOMALOUS X-RAY PULSAR 1E 1841-045. <i>Astrophysical Journal Letters</i> , 2011, 740, L16.	3.0	24
40	Open-source, small-animal magnetic resonance-guided focused ultrasound system. <i>Journal of Therapeutic Ultrasound</i> , 2016, 4, 22.	2.2	23
41	Analytical modeling of pulse-pileup distortion using the true pulse shape; applications to Fermi-GBM. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 717, 21-36.	0.7	20
42	Compton scattering in terrestrial gamma-ray flashes detected with the Fermi gamma-ray burst monitor. <i>Physical Review D</i> , 2014, 90, .	1.6	16
43	Multi-focal HIFU reduces cavitation in mild-hyperthermia. <i>Journal of Therapeutic Ultrasound</i> , 2017, 5, 12.	2.2	13
44	FIRST RESULTS FROM FERMI GAMMA-RAY BURST MONITOR EARTH OCCULTATION MONITORING: OBSERVATIONS OF SOFT GAMMA-RAY SOURCES ABOVE 100 keV. <i>Astrophysical Journal</i> , 2011, 729, 105.	1.6	10
45	Earth occultation imaging of the low energy gamma-ray sky with GBM. <i>Astronomy and Astrophysics</i> , 2014, 562, A7.	2.1	4
46	Improving the heating efficiency of high intensity focused ultrasound ablation through the use of phase change nanodroplets and multifocus sonication. <i>Physics in Medicine and Biology</i> , 2020, 65, 205004.	1.6	3
47	Detecting Qubit-coupling Faults in Ion-trap Quantum Computers. , 2022, , .		3
48	GBM Long and Short GRB Lightcurve Decomposition Analysis. <i>AIP Conference Proceedings</i> , 2011, , .	0.3	1
49	Spectral analysis of GRB 080810 detected by Fermi GBM and Swift BAT. , 2009, , .		0
50	Design and characterization of an MR-compatible FUS randomized array for transcranial neuromodulation. , 2017, , .		0
51	Design and characterization of an MR-compatible FUS randomized array for transcranial neuromodulation. , 2017, , .		0
52	Enhancing Thermal Ablation of High Intensity Focused Ultrasound with Phase Shift Nanodroplets and Multi-focus Ablation Patterns. , 2020, , .		0