

# Vandiver Chaplin

## List of Publications by Year in descending order

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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	Detecting Qubit-coupling Faults in Ion-trap Quantum Computers. , 2022, , .		3
2	Efficient arbitrary simultaneously entangling gates on a trapped-ion quantum computer. Nature Communications, 2020, 11, 2963.	5.8	53
3	Improving the heating efficiency of high intensity focused ultrasound ablation through the use of phase change nanodroplets and multifocus sonication. Physics in Medicine and Biology, 2020, 65, 205004.	1.6	3
4	Ground-state energy estimation of the water molecule on a trapped-ion quantum computer. Npj Quantum Information, 2020, 6, .	2.8	184
5	Enhancing Thermal Ablation of High Intensity Focused Ultrasound with Phase Shift Nanodroplets and Multi-focus Ablation Patterns. , 2020, , .		0
6	On the accuracy of optically tracked transducers for image-guided transcranial ultrasound. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1317-1327.	1.7	25
7	Benchmarking an 11-qubit quantum computer. Nature Communications, 2019, 10, 5464.	5.8	307
8	Considerations for ultrasound exposure during transcranial MR acoustic radiation force imaging. Scientific Reports, 2019, 9, 16235.	1.6	28
9	A random phased-array for MR-guided transcranial ultrasound neuromodulation in non-human primates. Physics in Medicine and Biology, 2018, 63, 105016.	1.6	33
10	Neuromodulation of sensory networks in monkey brain by focused ultrasound with MRI guidance and detection. Scientific Reports, 2018, 8, 7993.	1.6	69
11	Multi-focal HIFU reduces cavitation in mild-hyperthermia. Journal of Therapeutic Ultrasound, 2017, 5, 12.	2.2	13
12	Design and characterization of an MR-compatible FUS randomized array for transcranial neuromodulation. , 2017, , .		0
13	Design and characterization of an MR-compatible FUS randomized array for transcranial neuromodulation. , 2017, , .		0
14	Open-source, small-animal magnetic resonance-guided focused ultrasound system. Journal of Therapeutic Ultrasound, 2016, 4, 22.	2.2	23
15	THE THIRD FERMI GBM GAMMA-RAY BURST CATALOG: THE FIRST SIX YEARS. Astrophysical Journal, Supplement Series, 2016, 223, 28.	3.0	191
16	THE FIVE YEAR <i>FERMI</i> /GBM MAGNETAR BURST CATALOG. Astrophysical Journal, Supplement Series, 2015, 218, 11.	3.0	45
17	Earth occultation imaging of the low energy gamma-ray sky with GBM. Astronomy and Astrophysics, 2014, 562, A7.	2.1	4
18	THE SECOND <i>FERMI</i> GBM GAMMA-RAY BURST CATALOG: THE FIRST FOUR YEARS. Astrophysical Journal, Supplement Series, 2014, 211, 13.	3.0	172

#	ARTICLE	IF	CITATIONS
19	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
20	Fermi-LAT Observations of the Gamma-Ray Burst GRB 130427A. <i>Science</i> , 2014, 343, 42-47.	6.0	211
21	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
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	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
24	Fluence distribution of terrestrial gamma ray flashes observed by the Fermi Gamma-ray Burst Monitor. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6644-6650.	0.8	28
25	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
26	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
27	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
28	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
29	SGR J1550-5418 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
30	TEMPORAL DECONVOLUTION STUDY OF LONG AND SHORT GAMMA-RAY BURST LIGHT CURVES. <i>Astrophysical Journal</i> , 2012, 744, 141.	1.6	35
31	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
32	Electron-positron beams from terrestrial lightning observed with Fermi GBM. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	123
33	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
34	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
35	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
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

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37	DETECTION OF A THERMAL SPECTRAL COMPONENT IN THE PROMPT EMISSION OF GRB 100724B. <i>Astrophysical Journal Letters</i> , 2011, 727, L33.	3.0	205
38	WHEN A STANDARD CANDLE FLICKERS. <i>Astrophysical Journal Letters</i> , 2011, 727, L40.	3.0	117
39	DETECTION OF A SPECTRAL BREAK IN THE EXTRA HARD COMPONENT OF GRB 090926A. <i>Astrophysical Journal</i> , 2011, 729, 114.	1.6	179
40	<i>Fermi</i>/GAMMA-RAY BURST MONITOR OBSERVATIONS OF SGR J0501+4516 BURSTS. <i>Astrophysical Journal</i> , 2011, 739, 87.	1.6	37
41	GBM Long and Short GRB Lightcurve Decomposition Analysis. <i>AIP Conference Proceedings</i> , 2011, , .	0.3	1
42	<i>Fermi</i>/GBM observations of the ultra-long GRB 091024. <i>Astronomy and Astrophysics</i> , 2011, 528, A15.	2.1	43
43	FIRST RESULTS FROM<i>FERMI</i>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
44	THE HIGH-METALLICITY EXPLOSION ENVIRONMENT OF THE RELATIVISTIC SUPERNOVA 2009bb. <i>Astrophysical Journal Letters</i> , 2010, 709, L26-L31.	3.0	30
45	<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
46	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
47	A relativistic type Ibc supernova without a detected $\hat{\Gamma}^3$ -ray burst. <i>Nature</i> , 2010, 463, 513-515.	13.7	275
48	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
49	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
50	<i>FERMI</i>OBSERVATIONS OF HIGH-ENERGY GAMMA-RAY EMISSION FROM GRB 080825C. <i>Astrophysical Journal</i> , 2009, 707, 580-592.	1.6	56
51	Spectral analysis of GRB 080810 detected by Fermi GBM and Swift BAT. , 2009, , .		0
52	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