

Robert D Preece

List of Publications by Year in descending order

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122
papers

9,686
citations

50170

46
h-index

34900

98
g-index

122
all docs

122
docs citations

122
times ranked

5630
citing authors

#	ARTICLE	IF	CITATIONS
1	THE <i>FERMI</i> GAMMA-RAY BURST MONITOR. <i>Astrophysical Journal</i> , 2009, 702, 791-804.	1.6	1,063
2	An Ordinary Short Gamma-Ray Burst with Extraordinary Implications: Fermi-GBM Detection of GRB 170817A. <i>Astrophysical Journal Letters</i> , 2017, 848, L14.	3.0	1,038
3	The BATSE Gamma-Ray Burst Spectral Catalog. I. High Time Resolution Spectroscopy of Bright Bursts Using High Energy Resolution Data. <i>Astrophysical Journal, Supplement Series</i> , 2000, 126, 19-36.	3.0	510
4	The Fourth BATSE Gamma-Ray Burst Catalog (Revised). <i>Astrophysical Journal, Supplement Series</i> , 1999, 122, 465-495.	3.0	410
5	The Complete Spectral Catalog of Bright BATSE Gamma-Ray Bursts. <i>Astrophysical Journal, Supplement Series</i> , 2006, 166, 298-340.	3.0	355
6	The Synchrotron Shock Model Confronts a "Line of Death" in the BATSE Gamma-Ray Burst Data. <i>Astrophysical Journal</i> , 1998, 506, L23-L26.	1.6	299
7	THE <i>FERMI</i> GBM GAMMA-RAY BURST SPECTRAL CATALOG: FOUR YEARS OF DATA. <i>Astrophysical Journal, Supplement Series</i> , 2014, 211, 12.	3.0	279
8	FERMI GBM OBSERVATIONS OF LIGO GRAVITATIONAL-WAVE EVENT GW150914. <i>Astrophysical Journal Letters</i> , 2016, 826, L6.	3.0	246
9	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
10	DETECTION OF A THERMAL SPECTRAL COMPONENT IN THE PROMPT EMISSION OF GRB 100724B. <i>Astrophysical Journal Letters</i> , 2011, 727, L33.	3.0	205
11	BATSE observations of gamma-ray burst spectra. 2: Peak energy evolution in bright, long bursts. <i>Astrophysical Journal</i> , 1995, 439, 307.	1.6	205
12	THE THIRD FERMI GBM GAMMA-RAY BURST CATALOG: THE FIRST SIX YEARS. <i>Astrophysical Journal, Supplement Series</i> , 2016, 223, 28.	3.0	191
13	A γ -ray burst with a high-energy spectral component inconsistent with the synchrotron shock model. <i>Nature</i> , 2003, 424, 749-751.	13.7	178
14	The Fourth Fermi-GBM Gamma-Ray Burst Catalog: A Decade of Data. <i>Astrophysical Journal</i> , 2020, 893, 46.	1.6	175
15	The Third BATSE Gamma-Ray Burst Catalog. <i>Astrophysical Journal, Supplement Series</i> , 1996, 106, 65.	3.0	175
16	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
17	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
18	Evolution of the Low-Energy Photon Spectra in Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 1997, 479, L39-L42.	1.6	159

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19	Observation of inverse Compton emission from a long $\hat{\Gamma}^3$ -ray burst. <i>Nature</i> , 2019, 575, 459-463.	13.7	146
20	The effect of magnetic fields on $\hat{\Gamma}^3$ -ray bursts inferred from multi-wavelength observations of the burst of 23 January 1999. <i>Nature</i> , 1999, 398, 394-399.	13.7	124
21	Electron-positron beams from terrestrial lightning observed with Fermi GBM. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	123
22	The ν F ν Peak Energy Distributions of Gamma-Ray Bursts Observed by BATSE. <i>Astrophysical Journal</i> , 1995, 454, 597.	1.6	119
23	WHEN A STANDARD CANDLE FLICKERS. <i>Astrophysical Journal Letters</i> , 2011, 727, L40.	3.0	117
24	Testing the Gamma-Ray Burst Energy Relationships. <i>Astrophysical Journal</i> , 2005, 627, 319-323.	1.6	114
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	Observations of GRB 990123 by the Compton Gamma Ray Observatory. <i>Astrophysical Journal</i> , 1999, 524, 82-91.	1.6	104
27	The rarity of soft $\hat{\Gamma}^3$ -ray repeaters deduced from reactivation of SGR1806 "20. <i>Nature</i> , 1994, 368, 125-127.	13.7	103
28	THE FERMI GBM GAMMA-RAY BURST CATALOG: THE FIRST TWO YEARS. <i>Astrophysical Journal, Supplement Series</i> , 2012, 199, 18.	3.0	100
29	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
30	BATSE Observations of Gamma-Ray Burst Spectra. IV. Time-Resolved High-Energy Spectroscopy. <i>Astrophysical Journal</i> , 1998, 496, 849-862.	1.6	88
31	Recurrent burst activity from the soft $\hat{\Gamma}^3$ -ray repeater SGR 1900+14. <i>Nature</i> , 1993, 362, 728-730.	13.7	86
32	The connection between thermal and non-thermal emission in gamma-ray bursts: general considerations and GRB 090902B as a case study. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 420, 468-482.	1.6	85
33	TIME-RESOLVED ANALYSIS OF FERMI GAMMA-RAY BURSTS WITH FAST- AND SLOW-COOLED SYNCHROTRON PHOTON MODELS. <i>Astrophysical Journal</i> , 2014, 784, 17.	1.6	83
34	Possible Evidence for Relativistic Shocks in Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 1997, 488, 330-337.	1.6	83
35	On the Consistency of Gamma-Ray Burst Spectral Indices with the Synchrotron Shock Model. <i>Astrophysical Journal</i> , 2002, 581, 1248-1255.	1.6	80
36	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

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37	The <i>Fermi</i> GBM gamma-ray burst time-resolved spectral catalog: brightest bursts in the first four years. <i>Astronomy and Astrophysics</i> , 2016, 588, A135.	2.1	80
38	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
39	THE BATSE 5B GAMMA-RAY BURST SPECTRAL CATALOG. <i>Astrophysical Journal, Supplement Series</i> , 2013, 208, 21.	3.0	75
40	LOCALIZATION OF GAMMA-RAY BURSTS USING THE <i>FERMI</i> GAMMA-RAY BURST MONITOR. <i>Astrophysical Journal, Supplement Series</i> , 2015, 216, 32.	3.0	75
41	Ground-based calibration and characterization of the Fermi gamma-ray burst monitor detectors. <i>Experimental Astronomy</i> , 2009, 24, 47-88.	1.6	68
42	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
43	UNIFICATION OF PULSES IN LONG AND SHORT GAMMA-RAY BURSTS: EVIDENCE FROM PULSE PROPERTIES AND THEIR CORRELATIONS. <i>Astrophysical Journal</i> , 2011, 740, 104.	1.6	63
44	Evidence for an Early High-Energy Afterglow Observed with BATSE from GRB 980923. <i>Astrophysical Journal</i> , 1999, 524, L47-L50.	1.6	58
45	Quasi-periodic pulsations in solar flares: new clues from the <i>Fermi</i> Gamma-Ray Burst Monitor. <i>Astronomy and Astrophysics</i> , 2011, 533, A61.	2.1	54
46	The Identification of Two Different Spectral Types of Pulses in Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 1997, 489, 175-198.	1.6	53
47	The Fermi-GBM Gamma-Ray Burst Spectral Catalog: 10 yr of Data. <i>Astrophysical Journal</i> , 2021, 913, 60.	1.6	49
48	BATSE Observations of Gamma-Ray Burst Spectra. III. Low-Energy Behavior of Time-Averaged Spectra. <i>Astrophysical Journal</i> , 1996, 473, 310-321.	1.6	47
49	Improved limits on sterile neutrino dark matter using full-sky Fermi Gamma-ray Burst Monitor data. <i>Physical Review D</i> , 2015, 92, .	1.6	45
50	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
51	<i>Fermi</i> /GBM observations of the ultra-long GRB 091024. <i>Astronomy and Astrophysics</i> , 2011, 528, A15.	2.1	43
52	<i>Fermi</i> /GAMMA-RAY BURST MONITOR OBSERVATIONS OF SGR J0501+4516 BURSTS. <i>Astrophysical Journal</i> , 2011, 739, 87.	1.6	37
53	The sharpness of gamma-ray burst prompt emission spectra. <i>Astronomy and Astrophysics</i> , 2015, 583, A129.	2.1	37
54	TEMPORAL DECONVOLUTION STUDY OF LONG AND SHORT GAMMA-RAY BURST LIGHT CURVES. <i>Astrophysical Journal</i> , 2012, 744, 141.	1.6	35

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55	Extended Power-law Decays in BATSE Gamma-Ray Bursts: Signatures of External Shocks?. <i>Astrophysical Journal</i> , 2002, 570, 573-587.	1.6	33
56	The Intensity Distribution for Gamma-Ray Bursts Observed with BATSE. <i>Astrophysical Journal</i> , 1996, 464, 606.	1.6	33
57	BATSE gamma-ray burst line search. 1: Search for narrow lines in spectroscopy detector data. <i>Astrophysical Journal</i> , 1994, 433, L77.	1.6	33
58	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
59	SEARCHING THE GAMMA-RAY SKY FOR COUNTERPARTS TO GRAVITATIONAL WAVE SOURCES: FERMI GAMMA-RAY BURST MONITOR AND LARGE AREA TELESCOPE OBSERVATIONS OF LVT151012 AND GW151226. <i>Astrophysical Journal</i> , 2017, 835, 82.	1.6	32
60	On the Interpretation of the <i>Fermi</i> -GBM Transient Observed in Coincidence with LIGO Gravitational-wave Event GW150914. <i>Astrophysical Journal Letters</i> , 2018, 853, L9.	3.0	30
61	A <i>Fermi</i> Gamma-Ray Burst Monitor Search for Electromagnetic Signals Coincident with Gravitational-wave Candidates in Advanced LIGO's First Observing Run. <i>Astrophysical Journal</i> , 2019, 871, 90.	1.6	30
62	A SIGNIFICANT PROBLEM WITH USING THE AMATI RELATION FOR COSMOLOGICAL PURPOSES. <i>Astrophysical Journal</i> , 2012, 747, 39.	1.6	29
63	THREE YEARS OF <i>Fermi</i> GBM EARTH OCCULTATION MONITORING: OBSERVATIONS OF HARD X-RAY/SOFT GAMMA-RAY SOURCES. <i>Astrophysical Journal</i> , Supplement Series, 2012, 201, 33.	3.0	28
64	Fluence distribution of terrestrial gamma ray flashes observed by the <i>Fermi</i> Gamma-Ray Burst Monitor. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6644-6650.	0.8	28
65	AN OBSERVED CORRELATION BETWEEN THERMAL AND NON-THERMAL EMISSION IN GAMMA-RAY BURSTS. <i>Astrophysical Journal Letters</i> , 2014, 784, L43.	3.0	27
66	Synchrotron cooling in energetic gamma-ray bursts observed by the <i>Fermi</i> Gamma-Ray Burst Monitor. <i>Astronomy and Astrophysics</i> , 2015, 573, A81.	2.1	26
67	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
68	GAMMA-RAY BURST PULSE SHAPES: EVIDENCE FOR EMBEDDED SHOCK SIGNATURES?. <i>Astrophysical Journal</i> , 2014, 783, 88.	1.6	25
69	Pulse properties of terrestrial gamma-ray flashes detected by the <i>Fermi</i> Gamma-Ray Burst Monitor. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5931-5942.	0.8	25
70	A NEW DISCRIMINATOR FOR GAMMA-RAY BURST CLASSIFICATION: THE $E_{\text{peak}}/E_{\text{peak-fluence}}$ RATIO. <i>Astrophysical Journal</i> , 2010, 721, 1329-1332.	1.6	24
71	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
72	<i>Fermi</i> -GBM GRBs with Characteristics Similar to GRB 170817A. <i>Astrophysical Journal</i> , 2019, 876, 89.	1.6	24

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73	Spectral Hardness Decay with Respect to Fluence in BATSE Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 1999, 519, 206-213.	1.6	24
74	Hard Burst Emission from the Soft Gamma Repeater SGR 1900+14. <i>Astrophysical Journal</i> , 1999, 527, L47-L50.	1.6	24
75	DETECTION OF SPECTRAL EVOLUTION IN THE BURSTS EMITTED DURING THE 2008-2009 ACTIVE EPISODE OF SGR J1550a€5418. <i>Astrophysical Journal</i> , 2012, 755, 150.	1.6	23
76	IDENTIFYING THE LOCATION IN THE HOST GALAXY OF THE SHORT GRB 111117A WITH THE CHANDRA SUBARCSECOND POSITION. <i>Astrophysical Journal</i> , 2013, 766, 41.	1.6	20
77	The Emission Time of Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 1999, 522, 1069-1078.	1.6	19
78	BATSE Gamma-Ray Burst Line Search. V. Probability of Detecting a Line in a Burst. <i>Astrophysical Journal</i> , 1997, 485, 747-755.	1.6	18
79	BATSE Gamma-Ray Burst Line Search. IV. Line Candidates from the Visual Search. <i>Astrophysical Journal</i> , 1996, 458, 746.	1.6	16
80	Fermi Observations of the LIGO Event GW170104. <i>Astrophysical Journal Letters</i> , 2017, 846, L5.	3.0	15
81	WHICH E_{peak} ? THE CHARACTERISTIC ENERGY OF GAMMA-RAY BURST SPECTRA. <i>Astrophysical Journal</i> , 2016, 821, 12.	1.6	14
82	BATSE Gamma-Ray Burst Line Search. III. Line Detectability. <i>Astrophysical Journal</i> , 1995, 447, 289.	1.6	13
83	Using BATSE Observations to Test the Compton Attenuation Spectral Theory of Cosmological Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 1998, 501, 325-338.	1.6	12
84	Anomalies in low-energy gamma-ray burst spectra with the Fermi Gamma-ray Burst Monitor. <i>Astronomy and Astrophysics</i> , 2013, 550, A102.	2.1	12
85	The 4B BATSE gamma-ray burst catalog. , 1998, , .		11
86	BROADBAND, TIME-DEPENDENT, SPECTROSCOPY OF THE BRIGHTEST BURSTS OBSERVED BY BATSE LAD AND EGRET TASC. <i>Astrophysical Journal</i> , 2009, 696, 2155-2169.	1.6	11
87	GRAVITATIONAL-WAVE OBSERVATIONS MAY CONSTRAIN GAMMA-RAY BURST MODELS: THE CASE OF GW150914a€GBM. <i>Astrophysical Journal Letters</i> , 2016, 827, L34.	3.0	11
88	Average Emissivity Curve of BATSE Gamma-Ray Bursts with Different Intensities. <i>Astrophysical Journal</i> , 1999, 523, 610-616.	1.6	9
89	Fermi-GBM Follow-up of LIGO-Virgo Binary Black Hole Mergers: Detection Prospects. <i>Astrophysical Journal</i> , 2019, 882, 53.	1.6	7
90	Spectral characterisation of gamma-ray bursts with COMPTEL and BATSE. <i>Astrophysics and Space Science</i> , 1995, 231, 157-160.	0.5	6

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91	Gamma-ray burst spectra and the hardness-intensity correlation. , 1998, , .		5
92	Analysis Methods and Results of a Search for Weak Gamma-Ray Bursts in the BATSE Data. Astrophysical Journal, 2004, 603, 624-643.	1.6	5
93	The HE and NHE burst populations in the cosmological scenario. , 1998, , .		4
94	GRBs in the 5-10 keV regime as seen by BATSE. Astrophysics and Space Science, 1995, 231, 207-210.	0.5	3
95	Confronting synchrotron shock and inverse Comptonization models with GRB spectral evolution. , 1998, , .		3
96	Discovery of a Distinct Higher Energy Spectral Component in GRB941017. AIP Conference Proceedings, 2004, , .	0.3	3
97	Rest frame properties of gamma-ray bursts. AIP Conference Proceedings, 2000, , .	0.3	2
98	Spectral Properties of Short Gamma-Ray Bursts. AIP Conference Proceedings, 2003, , .	0.3	2
99	Average Cosmological Invariant Parameters of Cosmic Gamma-Ray Bursts. Astrophysical Journal, 1999, 523, 192-196.	1.6	2
100	Comparison of Redshift-known Gamma-Ray Bursts with the Main Groups of Bright BATSE Events. Astrophysical Journal, 2003, 584, 904-910.	1.6	2
101	Batse time-resolved observations of GRBs: the burst ?topographic? map. Astrophysics and Space Science, 1995, 231, 149-152.	0.5	1
102	Evidence for early high-energy afterglow: BATSE observations of GRB980923. AIP Conference Proceedings, 2000, , .	0.3	1
103	Spectral Time Evolution for GRBs Observed by BATSE and EGRET-TASC. AIP Conference Proceedings, 2004, , .	0.3	1
104	The time stretching of the average rise fronts and back slopes of different intensity groups of BATSE GRBs. , 1998, , .		0
105	Comparisons of burst spectral behavior in separate energy bands using BATSE spectral catalog data. , 1998, , .		0
106	Normalized flux averaging of the photon spectra of BATSE GRBs. , 1998, , .		0
107	The average spectral density contours of BATSE GRBs over the time/energy domain. , 1998, , .		0
108	The "Line of Death" for the synchrotron shock models: Confronting the data. , 1998, , .		0

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109	Comparison of bright and dim gamma-ray bursts by normalized flux averaging. , 1998, , .		0
110	The typical emission of cosmological GRBs as seen from co-moving frames. , 1998, , .		0
111	Studies of the time-stretching of GRBs using the average curves of emissivity. , 1998, , .		0
112	Gamma-ray burst spectroscopy. AIP Conference Proceedings, 2000, , .	0.3	0
113	The technique of emission time estimation for BATSE GRBs. AIP Conference Proceedings, 2000, , .	0.3	0
114	The hard side of SGRâ€š1900+14. AIP Conference Proceedings, 2000, , .	0.3	0
115	GRB 920229: Evidence for a sharp spectral break?. AIP Conference Proceedings, 2000, , .	0.3	0
116	Generic Difference between Early and Late Stages of BATSE Gammaâ€šRay Bursts. Astrophysical Journal, 2001, 547, 334-337.	1.6	0
117	GLAST and Gamma-Ray Bursts. Symposium - International Astronomical Union, 2003, 214, 391-398.	0.1	0
118	Extended Power-Law Decays in BATSE Gamma-Ray Bursts: Signatures of External Shocks?. AIP Conference Proceedings, 2003, , .	0.3	0
119	Low-Energy Study of Gamma-Ray Bursts using Two BATSE Spectroscopy Detectors. AIP Conference Proceedings, 2003, , .	0.3	0
120	Spectroscopy of the Brightest Bursts up to Energies of 200MeV. AIP Conference Proceedings, 2006, , .	0.3	0
121	New Directions for GRB Prompt Emission Theory. AIP Conference Proceedings, 2008, , .	0.3	0
122	How pulses in short gamma-ray bursts constrain HMXRB evolution. Proceedings of the International Astronomical Union, 2018, 14, 459-463.	0.0	0